

# Safety Data Sheet

(REACH)

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Product Code	Description
NGS_C3T_###*	Cell3™ Target product group
NGS_C3C_###*	Cell3™ Target Custom product group
NGS_GAL_###*	GALEAS® product group

\* Nonacus product lines use the same raw material, and this material safety datasheet (MSDS) covers all Cell3™ Target, Cell3™ Target Custom and GALEAS® NGS product groups, whether they come with or without the fragmentation enzyme or whether they are supplied in 16, 48 and 96. The ### are used to make reference to a specific product code (highlighted in bold), e.g. NGS\_C3T\_ACP\_16, NGS\_C3C\_XL\_NF\_96 and NGS\_GAL\_BCP\_FR\_96, and the requirement to have different finished kit product code is due to the intended purpose of each kit.

## Kit Contents

The products listed contain one or more of the following kits and reagents:

### Library Preparation Kit V2 (a) without enzymatic fragmentation

Components	Quantity		Product Code		Storage Conditions
	16 rxns – 48 rxns		NGS_ACC_LV2_NF_16 / NGS_ACC_LV2_NF_48 / NGS_ACC_LV2_NF_96		
ER-AT Enzyme	40 µl	120 µl	C3TV2-ERE16	C3TV2-ERE48	-20 °C
ER-AT Buffer	93 µl	280 µl	C3TV2-ERB16	C3TV2-ERB48	-20 °C
Ligation Mix	320 µl	960 µl	C3TV2-LIG16	C3TV2-LIG48	-20 °C
PreCap Amplification Mix	400 µl	1200 µl	C3TV2-PAM16	C3TV2-PAM48	-20 °C
PreCap Primer Mix	80 µl	240 µl	C3TV2-PPM16	C3TV2-PPM48	-20 °C

### Library Preparation Kit V2 (b) with enzymatic fragmentation

Components	Quantity		Product Code		Storage Conditions
	16 rxns – 48 rxns		NGS_ACC_LV2_FR_16 / NGS_ACC_LV2_FR_48 / NGS_ACC_LV2_FR_96		
Fragmentation Enzyme	96 µl	288 µl	C3TV2-FGE16	C3TV2-FGE48	-20 °C
Fragmentation Buffer	64 µl	192 µl	C3TV2-FGB16	C3TV2-FGB48	-20 °C
Ligation Mix	320 µl	960 µl	C3TV2-LIG16	C3TV2-LIG48	-20 °C
PreCap Amplification Mix	400 µl	1200 µl	C3TV2-PAM16	C3TV2-PAM48	-20 °C
PreCap Primer Mix	80 µl	240 µl	C3TV2-PPM16	C3TV2-PPM48	-20 °C

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Components	Quantity	Product Code	Storage Conditions
UMIRC_AD01 - 16	5 µl	NGS_ACC_ADP_1-16	-20 °C

## Adapter plate (1 - 48)

Components	Quantity	Product Code	Storage Conditions
UMIRC_AD01 - 48	5 µl	NGS_ACC_ADP_1-48	-20 °C

## Adapter plate (1 - 96)

Components	Quantity	Product Code	Storage Conditions
UMIRC_AD01 - 96	5 µl	NGS_ACC_ADP_1-96	-20 °C

## Adapter plate (97 - 192)

Components	Quantity	Product Code	Storage Conditions
UMIRC_AD97 - 192	5 µl	NGS_ACC_ADP_97-192	-20 °C

## Adapter plate (193 - 288)

Components	Quantity	Product Code	Storage Conditions
UMIRC_AD193 - 288	5 µl	NGS_ACC_ADP_193-288	-20 °C

## Adapter plate (289 - 384)

Components	Quantity	Product Code	Storage Conditions
UMIRC_AD289 - 384	5 µl	NGS_ACC_ADP_289-384	-20 °C

## Panel Set for Cell3™ Target & GALEAS® Product group

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Components	Quantity 4 rxns – 12 rxns	Product Code	Storage Conditions
Probe Panels	18 µl – 54 µl	Variable*	-20 °C

\* The panel set will be specific to the final Cell3™ Target, Cell3™ Target Custom or GALEAS® kit.

## Hybridisation and Capture Enrichment Reagents Kit V2

Components	Quantity 4 rxns – 12 rxns		Product Code NGS_ACC_HV2_4/ NGS_ACC_HV2_12		Storage Conditions
Hybridization Buffer (2x)	38 µl	114 µl	C3TV2-THB04	C3TV2-THB12	-20°C
Hybridization Enhancer	12 µl	36 µl	C3TV2-THE04	C3TV2-THE12	-20°C
Stringent Wash Buffer (10x)	160 µl	480 µl	C3TV2-TSB04	C3TV2-TSB12	-20°C
Wash Buffer 1 (10x)	120 µl	360 µl	C3TV2-TW104	C3TV2-TW112	-20°C
Wash Buffer 2 (10x)	80 µl	240 µl	C3TV2-TW204	C3TV2-TW212	-20°C
Wash Buffer 3 (10x)	80 µl	240 µl	C3TV2-TW304	C3TV2-TW312	-20°C
Bead Wash Buffer (2x)	1 ml	3 ml	C3TV2-TWB04	C3TV2-TWB12	-20°C
Universal Blockers	8 µl	24 µl	C3TV2-TUB04	C3TV2-TUB12	-20°C
COT-1 Human DNA	30 µl	90 µl	C3TV2-TCO04	C3TV2-TCO12	-20°C
PostCap Amplification Mix	100 µl	300 µl	C3TV2-PCM04	C3TV2-PCM12	-20°C
PostCap Primer Mix	10 µl	30 µl	C3TV2-TPO04	C3TV2-TPO12	-20°C

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## 1 Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier:

**Trade name:** ER-AT Enzyme

### 1.2 Details of the supplier of the safety data sheet:

Nonacus Ltd  
Unit 5 Quinton Business Park  
11 Ridgeway  
Quinton  
Birmingham  
B32 1AF

### 1.3 Emergency telephone number:

Lee Silcock +44(0)7793316851  
Chris Sale +44(0)7949922629

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## 2 Hazards identification

### 2.1 Classification of the substance or mixture:

Not a hazardous substance or mixture.

### 2.2 Label elements:

Not a hazardous substance or mixture.

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## 3 Composition/information on ingredients

### 3.1 Substances

**Trade name:** ER-AT Enzyme

### 3.2 Mixture

**Description:** Glycerol  $\geq 25 - \leq 50$  %

**CAS number:** 56-81-5

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## 4 First Aid Measures

### 4.1 Description of first aid measures

**General information:** Show this material safety data sheet to the doctor in attendance.

**Eye contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any eye contact lenses. Get medical attention if irritation occurs.

**Inhalation:** Move to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms persist.

**Skin contact:** Flush contaminated skin with plenty of water. Get medical attention if symptoms persist.

**Ingestion:** Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms persist.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential acute health effects

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin contact:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin contact:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

### 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to physician:** Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments:** No specific treatment.

**Protection of first-aiders:** No action shall be taken involving any personal risk or without suitable training.

## 5 Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media:** Not known.

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## 5.2 Advice for fire-fighters

**Specific hazards arising from the chemical:** In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal decomposition products:** Decomposition products may include the following materials: Carbon Dioxide, Carbon monoxide.

**Special protective actions for fire-fighters:** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for firefighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode.

## 6 Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Use personal protective equipment. Do not touch or walk through spilled material. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

### 6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and material for containment and cleaning up

Stop the leak and move containers from spill area. Absorb with an inert dry material. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

Not applicable.

## 7 Handling and storage

### 7.1 Precautions for safe handling

**Advice on safe handling:** Put on appropriate personal protective equipment (see Section 8). Smoking, eating, and drinking should be prohibited in the application area.

**Advice on protection against fire and explosion:** Normal measures for preventative fire protection.

### 7.2 Conditions for safe storage, including any incompatibilities

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**Technical measures and storage conditions:** Store in accordance with local regulations. Store at temperature defined on the label. Store away from oxidising materials, and food and drink.

**Requirements for storage rooms and vessels:** Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area.

Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

**Further information on storage conditions:** See Section 10 for incompatible materials before handling or use.

## 8 Exposure controls/personal protection

### 8.1 Control parameters

Glycerol (CAS: 56-81-5)

Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
TWA (mist, respirable fraction)	5 mg/m <sup>3</sup>	OSHA Z-1
TWA (mist, total dust)	15 mg/m <sup>3</sup>	OSHA Z-1
TWA (Total)	10 mg/m <sup>3</sup>	OSHA P0
TWA (respirable fraction)	5 mg/m <sup>3</sup>	OSHA P0
TWA	10 mg/m <sup>3</sup>	ACGIH

### 8.2 Exposure controls

#### Engineering controls:

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Individual protection measures:

Wash hands thoroughly after handling chemical products, before eating, smoking and using lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothes before reusing. Ensure eyewash stations and safety showers are close to the workstation location.

**Eye/face protection:** Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree or protection: safety glasses with side-shields.

**Hand protection:** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Body protection:** Personal protective equipment for the body, appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should

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be approved by a specialist before handling this product.

**Environmental exposure controls:** Avoid release to the environment.

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical State:	Liquid.
Colour:	Clear.
Odour:	Mild.
Odour threshold:	Not available.
pH:	7
Melting point/freezing point:	Not available.
Initial boiling point and boiling range:	Not available.
Flash Point:	Not available.
Evaporation rate:	Not available.
Flammability (solid, gas):	Not available.
Upper/lower flammability or explosive limits:	Not available.
Vapour pressure:	Not available.
Vapour density:	Not available.
Density (g/ml)	Not available.
Relative density:	Not available.
Solubility:	Not available
Solubility (Water):	Not available.
Partition coefficient: n-octanol/water:	Not applicable.
Auto-ignition temperature:	Not available.
Decomposition Temperature (°C):	Not available.
Viscosity:	Not available.
Flow time (ISO 2431):	Not available.
Particle characteristics	
Median particle size:	Not applicable

## 10 stability and reactivity

### 10.1 Reactivity

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No specific test data related to reactivity available for this product or its ingredients.

## 10.2 Chemical stability

No decomposition if stored and applied as directed.

## 10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

## 10.4 Conditions to avoid

No specific data.

## 10.5 Incompatible materials

Reactive or incompatible with the following materials: oxidising materials.

## 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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## 11 Toxicological Information

### 11.1 Information on toxicological effects

#### Acute toxicity:

Glycerol

**Acute oral toxicity:** LD50 Oral Rat: 12,600 mg/kg.

**Acute dermal toxicity:** Not available.

**Acute inhalation toxicity:** Not available.

**Irritation/corrosion:** No data available.

**Sensitisation:** No data available.

**Carcinogenicity:** No data available.

**Reproductive toxicity:** No data available.

**Teratogenicity:** No data available.

**Specific target organ toxicity (single exposure):** No data available.

**Specific target organ toxicity (repeated exposure):** No data available.

**Aspiration hazard:** No data available.

**Information on the likely routes of exposure:** Routes of entry anticipated: Oral, Dermal, Inhalation.

#### Potential acute health effects:

**Eye contact:** No known significant effects or critical hazards.

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**Inhalation:** No known significant effects or critical hazards.

**Skin inhalation:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

**Symptoms related to the physical, chemical and toxicological characteristics:**

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin inhalation:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

**Delayed and immediate effects and also chronic effects from short and long term exposure:**

**Short term exposure**

**Potential immediate effects:** No known significant effects or critical hazards.

**Potential delayed effects:** No known significant effects or critical hazards.

**Long term exposure**

**Potential immediate effects:** No known significant effects or critical hazards.

**Potential delayed effects:** No known significant effects or critical hazards.

**Potential chronic health effects**

**General:** No known significant effects or critical hazards.

**Carcinogenicity:** No known significant effects or critical hazards.

**Mutagenicity:** No known significant effects or critical hazards.

**Reproductive toxicity:** No known significant effects or critical hazards.

## 12 Ecological information

**Toxicity:** No data available.

**Persistence and degradability:** No data available.

**Bioaccumulative potential:**

Ingredient	LogP <sub>ow</sub>	BCF	Potential
Glycerol	-1.76	-	low

**Mobility in soil**

**Soil/water partition coefficient (K<sub>oc</sub>):** Not available.

**Other adverse effects:** No known significant effects or critical hazards.

## 13 Disposal considerations

**Disposal methods:** The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and

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waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the

requirements of all authorities and jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid disposal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## 14 Transport information

**UNRTDG:** Not regulated as a dangerous good.

**IATA-DGR:** Not regulated as a dangerous good.

**IMDG-Code:** Not regulated as a dangerous good.

**Environmental hazards:** No

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** No data available.

**Domestic regulation 49 CFR:** Not regulated as a dangerous good.

**Special precautions for user:** Not classified as dangerous in the meaning of transport regulations.

## 15 Regulatory information

### 15.1 Safety, health and environmental regulations/legislation for the mixture

#### EPCRA - Emergency Planning and Community Right-to-Know

**SARA 304:** No products were found.

**SARA 311/312:** Not applicable.

**SARA 302:** No products were found.

**SARA 313:** Not applicable.

**TSCA list:** Not determined.

#### US State Regulations

**California Prop 65:** This product does not require a Safe Harbor warning under California Prop. 65.

**Relevant information regarding authorization:** Occupational Health and Safety Act 1993 Regulation for Hazardous Chemical Substances.

**Relevant information regarding restrictions:** None known.

**EU regulations:** Regulation EC 1272/2008 [EU-GHS/CLP].

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**Other National regulations:** None

**Chemical Safety Assessment carried out?** No

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## 16 Other Information

**Abbreviations and acronyms:** Not applicable.

**Relevant classification and H statements (number and full text):** Not applicable.

**Training instructions:** Not applicable.

**Further information:** This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

**Notice to readers:** Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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### 1.1 Product identifier:

**Trade name:** ER-AT Buffer

### 1.2 Details of the supplier of the safety data sheet:

Nonacus Ltd  
Unit 5 Quinton Business Park  
11 Ridgeway  
Quinton  
Birmingham  
B32 1AF

### 1.3 Emergency telephone number:

Lee Silcock +44(0)7793316851  
Chris Sale +44(0)7949922629

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## 2 Hazards identification

### 2.1 Classification of the substance or mixture:

Not a hazardous substance or mixture.

### 2.2 Label elements:

Not a hazardous substance or mixture.

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## 3 Composition/information on ingredients

### 3.1 Substances

**Trade name:** ER-AT Buffer

### 3.2 Mixtures

Not available

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## 4 First Aid Measures

### 4.1 Description of first aid measures

**Eye contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any eye contact lenses. Get medical attention if irritation occurs.

**Inhalation:** Move to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

**Skin contact:** Flush contaminated skin with plenty of water. Get medical attention if symptoms occur.

**Ingestion:** Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential acute health effects

Eye contact: No known significant effects or critical hazards.

Inhalation: No known significant effects or critical hazards.

Skin contact: No known significant effects or critical hazards.

Ingestion: No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

Eye contact: No known significant effects or critical hazards.

Inhalation: No known significant effects or critical hazards.

Skin contact: No known significant effects or critical hazards.

Ingestion: No known significant effects or critical hazards.

### 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to physician:** Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments:** No specific treatment.

**Protection of first-aiders:** No action shall be taken involving any personal risk or without suitable training.

## 5 Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media:** None known.

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## 5.2 Advice for fire-fighters

**Specific hazards arising from the chemical:** In a fire or if heated, a pressure increase will occur, and the container may burst.

**Hazardous thermal decomposition products:** No specific data.

**Special protective actions for fire-fighters:** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No actions shall be taken involving any personal risk or without suitable training.

**Special protective equipment for firefighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6 Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Use personal protective equipment. Do not touch or walk through spilled material. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

### 6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and material for containment and cleaning up

Stop the leak and move containers from spill area. Absorb with an inert dry material. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

If specialised clothing is required to deal with the spillage, take note of any information in section 8 on suitable and unsuitable materials.

## 7 Handling and storage

### 7.1 Precautions for safe handling

**Advice on safe handling:** Put on appropriate personal protective equipment (see Section 8). Smoking, eating, and drinking should be prohibited in the application area.

**Advice on protection against fire and explosion:** Normal measures for preventative fire protection.

### 7.2 Conditions for safe storage, including any incompatibilities

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**Technical measures and storage conditions:** Store in accordance with local regulations. Store at temperature defined on the label. Store away from oxidising materials, and food and drink.

**Requirements for storage rooms and vessels:** Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area.

Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

**Further information on storage conditions:** See Section 10 for incompatible materials before handling or use.

## 8 Exposure controls/personal protection

### 8.1 Control parameters

**Occupational exposure limits:** None.

### 8.2 Exposure controls

#### Engineering controls:

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Individual protection measures:

Wash hands thoroughly after handling chemical products, before eating, smoking and using lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothes before reusing. Ensure eyewash stations and safety showers are close to the workstation location.

**Eye/face protection:** Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree or protection: safety glasses with side-shields.

**Hand protection:** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Body protection:** Personal protective equipment for the body, appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### Environmental exposure controls:

Avoid release to the environment.

## 9 Physical and chemical properties

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Author(s): Agata Stodolna, Kim Piechocki

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## 9.1 Information on basic physical and chemical properties

Physical State:	Liquid.
Colour:	Clear.
Odour:	Mild.
Odour threshold:	Not available.
pH:	8
Melting point/freezing point:	Not available.
Initial boiling point and boiling range:	Not available.
Flash Point:	Not available.
Evaporation rate:	Not available.
Flammability (solid, gas):	Not available.
Upper/lower flammability or explosive limits:	Not available.
Vapour pressure:	Not available.
Vapour density:	Not available.
Density (g/ml):	Not available.
Relative density:	Not available.
Solubility:	Not available
Solubility (Water):	Not available.
Partition coefficient: n-octanol/water:	Not applicable.
Auto-ignition temperature:	Not available.
Decomposition Temperature (°C):	Not available.
Viscosity:	Not available.
Flow time (ISO 2431):	Not available.
Particle characteristics	
Median particle size:	Not applicable

## 10 stability and reactivity

### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

### 10.4 Conditions to avoid

No specific data.

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## 10.5 Incompatible materials

Reactive or incompatible with the following materials: oxidising materials.

## 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11 Toxicological Information

### 11.1 Information on toxicological effects

**Acute toxicity:** No data available.

**Irritation/corrosion:** No data available.

**Sensitisation:** No data available.

**Carcinogenicity:** No data available.

**Reproductive toxicity:** No data available.

**Teratogenicity:** No data available.

**Specific target organ toxicity (single exposure):** No data available.

**Specific target organ toxicity (repeated exposure):** No data available.

**Aspiration hazard:** No data available.

**Information on the likely routes of exposure:** Routes of entry anticipated: Oral, Dermal, Inhalation.

#### Potential acute health effects:

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin inhalation:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics:

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin inhalation:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

#### Delayed and immediate effects and also chronic effects from short and long term exposure:

##### Short term exposure

**Potential immediate effects:** No known significant effects or critical hazards.

**Potential delayed effects:** No known significant effects or critical hazards.

##### Long term exposure

**Potential immediate effects:** No known significant effects or critical hazards.

**Potential delayed effects:** No known significant effects or critical hazards.

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## Potential chronic health effects

**General:** No known significant effects or critical hazards.

**Carcinogenicity:** No known significant effects or critical hazards.

**Mutagenicity:** No known significant effects or critical hazards.

**Reproductive toxicity:** No known significant effects or critical hazards.

## 12 Ecological information

**Toxicity:** No data available.

**Persistence and degradability:** No data available.

**Bioaccumulative potential:** No data available.

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>):** Not available.

**Other adverse effects:** No known significant effects or critical hazards.

## 13 Disposal considerations

**Disposal methods:** The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities and jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid disposal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## 14 Transport information

**UNRTDG:** Not regulated as a dangerous good.

**IATA-DGR:** Not regulated as a dangerous good.

**IMDG-Code:** Not regulated as a dangerous good.

**Environmental hazards:** No

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** No data available.

**Domestic regulation 49 CFR:** Not regulated as a dangerous good.

**Special precautions for user:** Not classified as dangerous in the meaning of transport regulations.

## 15 Regulatory information

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## 15.1 Safety, health and environmental regulations/legislation for the mixture

### EPCRA - Emergency Planning and Community Right-to-Know

**SARA 304:** No products were found.

**SARA 311/312:** Not applicable.

**SARA 302:** No products were found.

**SARA 313:** Not applicable.

**TSCA list:** Not determined.

### US State Regulations

**California Prop 65:** This product does not require a Safe Harbor warning under California Prop. 65.

**Relevant information regarding authorization:** Occupational Health and Safety Act 1993 Regulation for Hazardous Chemical Substances.

**Relevant information regarding restrictions:** None known.

**EU regulations:** Regulation EC 1272/2008 [EU-GHS/CLP].

**Other National regulations:** None

**Chemical Safety Assessment carried out?** No

## 16 Other Information

**Abbreviations and acronyms:** Not applicable.

**Relevant classification and H statements (number and full text):** Not applicable.

**Training instructions:** Not applicable.

**Further information:** This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

**Notice to readers:** Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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## 1 Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier:

**Trade name:** Ligation Mix

### 1.2 Details of the supplier of the safety data sheet:

Nonacus Ltd  
Unit 5 Quinton Business Park  
11 Ridgeway  
Quinton  
Birmingham  
B32 1AF

### 1.3 Emergency telephone number:

Lee Silcock +44(0)7793316851  
Chris Sale +44(0)7949922629

## 2 Hazards identification

### 2.1 Classification of the substance or mixture:

Serious eye damage/ eye irritation – Category 2B.

### 2.2 Label elements:



**Signal word:** Warning  
**Hazard statements:** H320 – Causes eye irritation.

#### Precautionary statements

**Prevention:** P264 – Wash thoroughly after handling.  
**Response:** P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 – if eye irritation persists: Get medical advice or attention.

**Storage:** Not applicable.

**Disposal:** Not applicable.

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**Hazards not otherwise classified:** None known.

## 3 Composition/information on ingredients

### 3.1 Substances

**Trade name:** Ligation Mix

### 3.2 Mixtures

Glycerol	≥25 – ≤50 %
CAS number: 56-81-5	
Poly(ethylene glycol)	≥10 – ≤25 %
CAS number: 25322-68-3	

## 4 First Aid Measures

### 4.1 Description of first aid measures

**Eye contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any eye contact lenses. Continue to rinse for at least 20 minutes. If irritation persists, get medical attention.

**Inhalation:** Move to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Skin contact:** Flush contaminated skin with plenty of water. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion:** Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed

person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious place in recovery positions and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential acute health effects

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**Eye contact:** Causes eye irritation.

**Inhalation:** No known significant effects or critical hazards.

**Skin contact:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

### Over-exposure signs/symptoms

**Eye contact:** Adverse symptoms may include the following: pain or irritation, watering, redness.

**Inhalation:** No known significant effects or critical hazards.

**Skin contact:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

## 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to physician:** Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments:** No specific treatment.

**Protection of first-aiders:** No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

## 5 Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media:** Not known.

### 5.2 Advice for fire-fighters

**Specific hazards arising from the chemical:** In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal decomposition products:** Decomposition products may include the following materials: Carbon Dioxide, Carbon monoxide.

**Special protective actions for fire-fighters:** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for firefighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode.

## 6 Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

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Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Use personal protective equipment. Do not touch or walk through spilled material. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Provide adequate ventilation.

## 6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

## 6.3 Methods and material for containment and cleaning up

Stop the leak and move containers from spill area. Absorb with an inert dry material. Keep in suitable, closed containers for disposal. Dispose of via a licensed waste disposal contractor.

## 6.4 Reference to other sections

---

## 7 Handling and storage

### 7.1 Precautions for safe handling

**Advice on safe handling:** Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Smoking, eating, and drinking should be prohibited in the application area.

**Advice on protection against fire and explosion:** Normal measures for preventative fire protection.

### 7.2 Conditions for safe storage, including any incompatibilities

**Technical measures and storage conditions:** Store in accordance with local regulations. Store at temperature defined on the label. Store away from oxidising materials, and food and drink.

**Requirements for storage rooms and vessels:** Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area.

Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

**Further information on storage conditions:** See Section 10 for incompatible materials before handling or use.

---

## 8 Exposure controls/personal protection

### 8.1 Control parameters

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Glycerol (CAS: 56-81-5)

Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
TWA (mist, respirable fraction)	5 mg/m <sup>3</sup> 8 hours	OSHA PEL
TWA (mist, total dust)	15 mg/m <sup>3</sup> 8 hours	OSHA PEL

Poly(ethylene glycol) (CAS: 25322-68-3)

Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
TWA	10 mg/m <sup>3</sup> 8 hours	AIHA WEEL

## 8.2 Exposure controls

### Engineering controls:

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

### Individual protection measures:

Wash hands thoroughly after handling chemical products, before eating, smoking and using

lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothes before reusing. Ensure eyewash stations and safety showers are close to the workstation location.

**Eye/face protection:** Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree or protection: chemical splash goggles.

**Hand protection:** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be gloves manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection:** Personal protective equipment for the body, appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection:** Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

**Environmental exposure controls:** Avoid release to the environment.

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## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical State:	Liquid.
Colour:	Clear.
Odour:	Mild.
Odour threshold:	Not available.
pH:	7.8
Melting point/freezing point:	Not available.
Initial boiling point and boiling range:	Not available.
Flash Point:	Not available.
Evaporation rate:	Not available.
Flammability (solid, gas):	Not available.
Upper/lower flammability or explosive limits:	Not available.
Vapour pressure:	Not available.
Vapour density:	Not available.
Density (g/ml):	Not available.
Relative density:	Not available.
Solubility:	Not available.
Solubility (Water):	Not available.
Partition coefficient: n-octanol/water:	Not applicable.
Auto-ignition temperature:	Not available.
Decomposition Temperature (°C):	Not available.
Viscosity:	Not available.
Flow time (ISO 2431):	Not available.
Particle characteristics	
Median particle size:	Not applicable

## 10 Stability and reactivity

### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

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Under normal conditions of storage and use, hazardous reactions will not occur.

## 10.4 Conditions to avoid

No specific data.

## 10.5 Incompatible materials

Reactive or incompatible with the following materials: oxidising materials.

## 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# 11 Toxicological Information

## 11.1 Information on toxicological effects

### Acute toxicity:

Glycerol

**Acute oral toxicity: LD50 Oral Rat:** 12,600 mg/kg.

**Acute dermal toxicity:** Not available.

**Acute inhalation toxicity:** Not available.

### Irritation/corrosion:

#### Poly(ethylene glycol)

**Eyes:** Mild irritant (Rabbit), Exposure: 24 hours 500mg.

**Eyes:** Mild irritant (Rabbit), Exposure: 500mg.

**Skin:** Mild irritant (Rabbit), Exposure: 24 hours 500mg.

**Skin:** Mild irritant (Rabbit), Exposure: 500mg.

**Sensitisation:** No data available.

**Carcinogenicity:** No data available.

**Reproductive toxicity:** No data available.

**Teratogenicity:** No data available.

**Specific target organ toxicity (single exposure):** No data available.

**Specific target organ toxicity (repeated exposure):** No data available.

**Aspiration hazard:** No data available.

**Information on the likely routes of exposure:** Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential acute health effects:

**Eye contact:** Causes eye irritation.

**Inhalation:** No known significant effects or critical hazards.

**Skin inhalation:** No known significant effects or critical hazards.

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**Ingestion:** No known significant effects or critical hazards.

**Symptoms related to the physical, chemical and toxicological characteristics:**

**Eye contact:** Adverse symptoms may include the following: pain, irritation, watering, redness.

**Inhalation:** No known significant effects or critical hazards.

**Skin inhalation:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

**Delayed and immediate effects and also chronic effects from short and long term exposure:**

**Short term exposure**

**Potential immediate effects:** No known significant effects or critical hazards.

**Potential delayed effects:** No known significant effects or critical hazards.

**Long term exposure**

**Potential immediate effects:** No known significant effects or critical hazards.

**Potential delayed effects:** No known significant effects or critical hazards.

**Potential chronic health effects**

**General:** No known significant effects or critical hazards.

**Carcinogenicity:** No known significant effects or critical hazards.

**Mutagenicity:** No known significant effects or critical hazards.

**Reproductive toxicity:** No known significant effects or critical hazards.

## 12 Ecological information

**Toxicity:**

Ingredient	Results	Species	Exposure
Poly(ethylene glycol)	Acute LC50 >1000000 µg/L Fresh water	Fish- Salmo salar- Parr	96 hours

**Persistence and degradability:** No data available

**Bioaccumulative potential:**

Ingredient	LogP <sub>ow</sub>	BCF	Potential
Glycerol	-1.76	-	low
Poly(ethylene glycol)	-	3.2	low

**Mobility in soil**

**Soil/water partition coefficient (K<sub>oc</sub>):** Not available.

**Other adverse effects:** No known significant effects or critical hazards.

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## 13 Disposal considerations

**Disposal methods:** The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities and jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid disposal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## 14 Transport information

**UNRTDG:** Not regulated as a dangerous good.

**IATA-DGR:** Not regulated as a dangerous good.

**IMDG-Code:** Not regulated as a dangerous good.

**Environmental hazards:** No

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** No data available.

**Domestic regulation 49 CFR:** Not regulated as a dangerous good.

**Special precautions for user:** Not classified as dangerous in the meaning of transport regulations.

## 15 Regulatory information

### 15.1 Safety, health and environmental regulations/legislation for the mixture

#### EPCRA - Emergency Planning and Community Right-to-Know

**SARA 304:** No products were found.

**SARA 311/312:** SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B

#### Composition/information on ingredients

**Name:** Poly(ethylene glycol)

**Percentage:** ≥10 - ≤25

**Classification:** SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B

**SARA 302:** No products were found.

**SARA 313:** Not applicable.

**TSCA list:** Not determined.

#### US State Regulations

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**California Prop 65:** This product does not require a Safe Harbor warning under California Prop. 65.

**Relevant information regarding authorization:** Occupational Health and Safety Act 1993 Regulation for Hazardous Chemical Substances.

**Relevant information regarding restrictions:** None known.

**EU regulations:** Regulation EC 1272/2008 [EU-GHS/CLP].

**Other National regulations:** None

**Chemical Safety Assessment carried out?** No

-----

## 16 Other Information

**Abbreviations and acronyms:** Not applicable.

**Relevant classification and H statements (number and full text):**

Serious eye damage/ eye irritation – Category 2B.

H320 – Causes eye irritation.

**Training instructions:** Not applicable.

**Further information:** This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

**Notice to readers:** Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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## 1 Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier:

**Trade name:** Fragmentation Enzyme

### 1.2 Details of the supplier of the safety data sheet:

Nonacus Ltd  
Unit 5 Quinton Business Park  
11 Ridgeway  
Quinton  
Birmingham  
B32 1AF

### 1.3 Emergency telephone number:

Lee Silcock +44(0)7793316851  
Chris Sale +44(0)7949922629

---

## 2 Hazards identification

### 2.1 Classification of the substance or mixture:

Not a hazardous substance or mixture.

### 2.2 Label elements:

Not a hazardous substance or mixture.

---

## 3 Composition/information on ingredients

### 3.1 Substances

**Trade name:** Fragmentation Enzyme

### 3.2 Mixtures

Glycerol  $\geq 25 - \leq 50 \%$   
CAS number: 56-81-5

## 4 First Aid Measures

### 4.1 Description of first aid measures

**Eye contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any eye contact lenses. Get medical attention if irritation occurs.

**Inhalation:** Move to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

**Skin contact:** Flush contaminated skin with plenty of water. Get medical attention if symptoms occur.

**Ingestion:** Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential acute health effects

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin contact:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin contact:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

### 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to physician:** Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments:** No specific treatment.

**Protection of first-aiders:** No action shall be taken involving any personal risk or without suitable training.

## 5 Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media:** Not known.

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## 5.2 Advice for fire-fighters

**Specific hazards arising from the chemical:** In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal decomposition products:** Decomposition products may include the following materials: Carbon Dioxide, Carbon monoxide.

**Special protective actions for fire-fighters:** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for firefighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode.

## 6 Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Use personal protective equipment. Do not touch or walk through spilled material. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

### 6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and material for containment and cleaning up

Stop the leak and move containers from spill area. Absorb with an inert dry material. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

## 7 Handling and storage

### 7.1 Precautions for safe handling

**Advice on safe handling:** Put on appropriate personal protective equipment (see Section 8).

Smoking, eating, and drinking should be prohibited in the application area.

**Advice on protection against fire and explosion:** Normal measures for preventative fire protection.

### 7.2 Conditions for safe storage, including any incompatibilities

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**Technical measures and storage conditions:** Store in accordance with local regulations. Store at temperature defined on the label. Store away from oxidising materials, and food and drink.

**Requirements for storage rooms and vessels:** Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area.

Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

**Further information on storage conditions:** See Section 10 for incompatible materials before handling or use.

## 8 Exposure controls/personal protection

### 8.1 Control parameters

Glycerol (CAS: 56-81-5)

Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
TWA (mist, respirable fraction)	5 mg/m <sup>3</sup>	OSHA Z-1
TWA (mist, total dust)	15 mg/m <sup>3</sup>	OSHA Z-1
TWA (Total)	10 mg/m <sup>3</sup>	OSHA P0
TWA (respirable fraction)	5 mg/m <sup>3</sup>	OSHA P0
TWA	10 mg/m <sup>3</sup>	ACGIH

### 8.2 Exposure controls

#### Engineering controls:

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Individual protection measures:

Wash hands thoroughly after handling chemical products, before eating, smoking and using lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothes before reusing. Ensure eyewash stations and safety showers are close to the workstation location.

**Eye/face protection:** Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree or protection: safety glasses with side-shields.

**Hand protection:** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Body protection:** Personal protective equipment for the body, appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and

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should be approved by a specialist before handling this product.

**Environmental exposure controls:** Avoid release to the environment.

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical State:	Liquid.
Colour:	Clear.
Odour:	Mild.
Odour threshold:	Not available.
pH:	7
Melting point/freezing point:	Not available.
Initial boiling point and boiling range:	Not available.
Flash Point:	Not available.
Evaporation rate:	Not available.
Flammability (solid, gas):	Not available.
Upper/lower flammability or explosive limits:	Not available.
Vapour pressure:	Not available.
Vapour density:	Not available.
Density (g/ml):	Not available.
Relative density:	Not available.
Solubility:	Not available
Solubility (Water):	Not available.
Partition coefficient: n-octanol/water:	Not applicable.
Auto-ignition temperature:	Not available.
Decomposition Temperature (°C):	Not available.
Viscosity:	Not available.
Flow time (ISO 2431):	Not available.
Particle characteristics	
Median particle size:	Not applicable

## 10 stability and reactivity

### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

### 10.2 Chemical stability

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No decomposition if stored and applied as directed.

## 10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

## 10.4 Conditions to avoid

No specific data.

## 10.5 Incompatible materials

Reactive or incompatible with the following materials: oxidising materials.

## 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

---

## 11 Toxicological Information

### 11.1 Information on toxicological effects

#### Acute toxicity:

Glycerol

**Acute oral toxicity:** LD50 Oral Rat: 12,600 mg/kg.

**Acute dermal toxicity:** Not available.

**Acute inhalation toxicity:** Not available.

**Irritation/corrosion:** No data available.

**Sensitisation:** No data available.

**Carcinogenicity:** No data available.

**Reproductive toxicity:** No data available.

**Teratogenicity:** No data available.

**Specific target organ toxicity (single exposure):** No data available.

**Specific target organ toxicity (repeated exposure):** No data available.

**Aspiration hazard:** No data available.

**Information on the likely routes of exposure:** Routes of entry anticipated: Oral, Dermal, Inhalation.

#### Potential acute health effects:

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin inhalation:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

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## Symptoms related to the physical, chemical and toxicological characteristics:

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin inhalation:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

## Delayed and immediate effects and also chronic effects from short and long term exposure:

### Short term exposure

**Potential immediate effects:** No known significant effects or critical hazards.

**Potential delayed effects:** No known significant effects or critical hazards.

### Long term exposure

**Potential immediate effects:** No known significant effects or critical hazards.

**Potential delayed effects:** No known significant effects or critical hazards.

### Potential chronic health effects

**General:** No known significant effects or critical hazards.

**Carcinogenicity:** No known significant effects or critical hazards.

**Mutagenicity:** No known significant effects or critical hazards.

**Reproductive toxicity:** No known significant effects or critical hazards.

## 12 Ecological information

**Toxicity:** No data available.

**Persistence and degradability:** No data available.

**Bioaccumulative potential:**

Ingredient	LogP <sub>ow</sub>	BCF	Potential
Glycerol	-1.76	-	low

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>):** Not available.

**Other adverse effects:** No known significant effects or critical hazards.

## 13 Disposal considerations

**Disposal methods:** The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities and jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not

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feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid disposal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## 14 Transport information

**UNRTDG:** Not regulated as a dangerous good.

**IATA-DGR:** Not regulated as a dangerous good.

**IMDG-Code:** Not regulated as a dangerous good.

**Environmental hazards:** No

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** No data available.

**Domestic regulation 49 CFR:** Not regulated as a dangerous good.

**Special precautions for user:** Not classified as dangerous in the meaning of transport regulations.

## 15 Regulatory information

### 15.1 Safety, health and environmental regulations/legislation for the mixture

#### EPCRA - Emergency Planning and Community Right-to-Know

**SARA 304:** No products were found.

**SARA 311/312:** Not applicable.

**SARA 302:** No products were found.

**SARA 313:** Not applicable.

**TSCA list:** Not determined.

#### US State Regulations

**California Prop 65:** This product does not require a Safe Harbor warning under California Prop. 65.

**Relevant information regarding authorization:** Occupational Health and Safety Act 1993 Regulation for Hazardous Chemical Substances.

**Relevant information regarding restrictions:** None known.

**EU regulations:** Regulation EC 1272/2008 [EU-GHS/CLP].

**Other National regulations:** None

**Chemical Safety Assessment carried out?** No

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## 16 Other Information

**Abbreviations and acronyms:** Not applicable.

**Relevant classification and H statements (number and full text):** Not applicable.

**Training instructions:** Not applicable.

**Further information:** This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

**Notice to readers:** Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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## 1 Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier:

**Trade name:** Fragmentation Buffer

### 1.2 Details of the supplier of the safety data sheet:

Nonacus Ltd  
Unit 5 Quinton Business Park  
11 Ridgeway  
Quinton  
Birmingham  
B32 1AF

### 1.3 Emergency telephone number:

Lee Silcock +44(0)7793316851  
Chris Sale +44(0)7949922629

## 2 Hazards identification

### 2.1 Classification of the substance or mixture:

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

ACUTE TOXICITY (oral) - Category 4

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1

AQUATIC HAZARD (LONG-TERM) - Category 3

### 2.2 Label elements:



**Signal words:** Danger

**Hazard statements:** H302 - Harmful if swallowed.  
H370 - Causes damage to organs.  
H412 - Harmful to aquatic life with long lasting effects.

### Precautionary statements

**Prevention:** P273 - Avoid release to the environment  
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P260 – Do not breathe vapor.

P270 – Do not eat, drink or smoke when using this product.

P264 – Wash thoroughly after handling.

**Response:** P308 + P311 – IF exposed: Call a POISON CENTER or doctor.  
P301 + P312, P330 – IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.

**Storage:** P405 – Store locked up

**Disposal:** P501 – Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazards not otherwise classified:** None known.

## 3 Composition/information on ingredients

### 3.1 Substances

**Trade name:** Fragmentation Buffer

### 3.2 Mixtures

Tetramethylammonium chloride       $\geq 5 - < 6 \%$

CAS number: 75-57-0

## 4 First Aid Measures

### 4.1 Description of first aid measures

**Eye contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention. If necessary, call a poison center or physician.

**Inhalation:** Move to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

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**Skin contact:** Flush contaminated skin with plenty of water. Continue to rinse for at least 20 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion:** Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

## 4.2 Most important symptoms and effects, both acute and delayed

### Potential acute health effects

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** Causes damage to organs following a single exposure if inhaled.

**Skin contact:** Causes damage to organs following a single exposure in contact with skin.

**Ingestion:** Harmful if swallowed. Causes damage to organs following a single exposure if swallowed.

### Over-exposure signs/symptoms

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin contact:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

## 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to physician:** In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments:** No specific treatment.

**Protection of first-aiders:** No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

## 5 Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media:** Not known.

### 5.2 Advice for fire-fighters

**Specific hazards arising from the chemical:** In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

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**Hazardous thermal decomposition products:** Decomposition products may include the following materials: Carbon Dioxide, Carbon monoxide, nitrogen oxides, halogenated compounds, metal oxide/oxides.

**Special protective actions for fire-fighters:** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for firefighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode.

## 6 Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Use personal protective equipment. Do not touch or walk through spilled material. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

### 6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and material for containment and cleaning up

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

In case of a minor spillage: stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

### 6.4 Reference to other sections

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.

## 7 Handling and storage

### 7.1 Precautions for safe handling

**Advice on safe handling:** Put on appropriate personal protective equipment (see Section 8).

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Smoking, eating, and drinking should be prohibited in the areas where the material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Remove contaminated clothing and protective equipment before entering eating areas.

**Advice on protection against fire and explosion:** Normal measures for preventative fire protection.

## 7.2 Conditions for safe storage, including any incompatibilities

**Technical measures and storage conditions:** Store in accordance with local regulations. Store at temperature defined on the label. Store away from oxidising materials, and food and drink.

**Requirements for storage rooms and vessels:** Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area. Store locked up.

Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

**Further information on storage conditions:** See Section 10 for incompatible materials before handling or use.

## 8 Exposure controls/personal protection

### 8.1 Control parameters

Tetramethylammonium chloride (CAS: 75-57-0)

Exposure limits: None

### 8.2 Exposure controls

#### Engineering controls:

If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### Individual protection measures:

Wash hands thoroughly after handling chemical products, before eating, smoking and using lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated

clothing. Wash contaminated clothes before reusing. Ensure eyewash stations and safety showers are close to the workstation location.

**Eye/face protection:** Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree or protection: safety glasses with side shields.

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**Hand protection:** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection:** Personal protective equipment for the body, appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection:** Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

**Environmental exposure controls:** Avoid release to the environment. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical State:	Liquid.
Colour:	Clear.
Odour:	Mild.
Odour threshold:	Not available.
pH:	8.3
Melting point/freezing point:	Not available.
Initial boiling point and boiling range:	Not available.
Flash Point:	Not available.
Evaporation rate:	Not available.
Flammability (solid, gas):	Not available.
Upper/lower flammability or explosive limits:	Not available.
Vapour pressure:	Not available.
Vapour density:	Not available.
Density (g/ml):	Not available.
Relative density:	Not available.
Solubility:	Not available
Solubility (Water):	Not available.

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Partition coefficient: n-octanol/water:	Not applicable.
Auto-ignition temperature:	Not available.
Decomposition Temperature (°C):	Not available.
Viscosity:	Not available.
Flow time (ISO 2431):	Not available.
Particle characteristics	
Median particle size:	Not applicable

## 10 Stability and reactivity

### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

### 10.4 Conditions to avoid

No specific data.

### 10.5 Incompatible materials

Reactive or incompatible with the following materials: oxidising materials

### 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11 Toxicological Information

### 11.1 Information on toxicological effects

#### Acute toxicity:

#### **Fragmentation Buffer**

**Acute oral toxicity:** 1000 mg/kg.

**Acute dermal toxicity:** 6000 mg/kg.

**Acute inhalation toxicity:** Not available.

#### **Tetramethylammonium chloride**

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**Acute oral toxicity:** 50 mg/kg.

**LD50 Oral Rat:** 50 mg/kg.

**Acute dermal toxicity:** 300 mg/kg.

**Acute inhalation toxicity:** Not available.

**Irritation/corrosion:** No data available.

**Sensitisation:** No data available.

**Carcinogenicity:** No data available.

**Reproductive toxicity:** No data available.

**Teratogenicity:** No data available.

**Specific target organ toxicity (single exposure):**

Tetramethylammonium chloride

**Category:** Category 1.

**Route of exposure:** Oral.

**Specific target organ toxicity (repeated exposure):** No data available.

**Aspiration hazard:** No data available.

**Information on the likely routes of exposure:** Routes of entry anticipated: Oral, Dermal, Inhalation.

**Potential acute health effects:**

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** Causes damage to organs following a single exposure if inhaled.

**Skin inhalation:** Causes damage to organs following a single exposure in contact with skin.

**Ingestion:** Harmful if swallowed. Causes damage to organs following a single exposure if swallowed.

**Symptoms related to the physical, chemical and toxicological characteristics:**

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin inhalation:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

**Delayed and immediate effects and also chronic effects from short and long term exposure:**

**Short term exposure**

**Potential immediate effects:** No known significant effects or critical hazards.

**Potential delayed effects:** No known significant effects or critical hazards.

**Long term exposure**

**Potential immediate effects:** No known significant effects or critical hazards.

**Potential delayed effects:** No known significant effects or critical hazards.

**Potential chronic health effects**

**General:** No known significant effects or critical hazards.

**Carcinogenicity:** No known significant effects or critical hazards.

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**Mutagenicity:** No known significant effects or critical hazards.

**Reproductive toxicity:** No known significant effects or critical hazards.

## 12 Ecological information

### Toxicity:

Ingredient	Result	Species	Exposure
Tetramethylammonium chloride	Acute LC50 462 mg/L Fresh water	Fish - Pimephales promelas	96 hours

**Persistence and degradability:** No data available.

**Bioaccumulative potential:** No data available.

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>):** Not available.

**Other adverse effects:** No known significant effects or critical hazards.

## 13 Disposal considerations

**Disposal methods:** The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities and jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid disposal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## 14 Transport information

**UNRTDG:** Not regulated as a dangerous good.

**IATA-DGR:** Not regulated as a dangerous good.

**IMDG-Code:** Not regulated as a dangerous good.

**Environmental hazards:** No

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** No data available.

**Domestic regulation 49 CFR:** Not regulated as a dangerous good.

### Special precautions for user:

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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## 15 Regulatory information

### 15.1 Safety, health and environmental regulations/legislation for the mixture

#### EPCRA - Emergency Planning and Community Right-to-Know

**SARA 304:** No products were found.

**SARA 311/312:** ACUTE TOXICITY (oral) – Category 4  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) – Category 1

#### Composition/information on ingredients

**Name:** Tetramethylammonium chloride  
**Percentage:** ≥5 - <6  
**Classification:** ACUTE TOXICITY (oral) – Category 2  
ACUTE TOXICITY (dermal) – Category 3  
SKIN CORROSION/IRRITATION – Category 2  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) – Category 1

**SARA 302:** No products were found.

**SARA 313:** Not applicable.

**TSCA list:** Not determined.

#### US State Regulations

**California Prop 65:** This product does not require a Safe Harbor warning under California Prop. 65.

**Relevant information regarding authorization:** Occupational Health and Safety Act 1993 Regulation for Hazardous Chemical Substances.

**Relevant information regarding restrictions:** None known.

**EU regulations:** Regulation EC 1272/2008 [EU-GHS/CLP].

**Other National regulations:** None

**Chemical Safety Assessment carried out?** No

## 16 Other Information

**Abbreviations and acronyms:** Not applicable.

#### Relevant classification and H statements (number and full text):

ACUTE TOXICITY (oral) – Category 4

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SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1

AQUATIC HAZARD (LONG-TERM) - Category 3

H302 - Harmful if swallowed.

H370 - Causes damage to organs.

H412 - Harmful to aquatic life with long lasting effects.

**Training instructions:** Not applicable.

**Further information:** This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

**Notice to readers:** Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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## 1 Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier:

**Trade name:** PreCap Amplification Mix

### 1.2 Details of the supplier of the safety data sheet:

Nonacus Ltd  
Unit 5 Quinton Business Park  
11 Ridgeway  
Quinton  
Birmingham  
B32 1AF

### 1.3 Emergency telephone number:

Lee Silcock +44(0)7793316851  
Chris Sale +44(0)7949922629

## 2 Hazards identification

### 2.1 Classification of the substance or mixture:

Not a hazardous substance or mixture.

### 2.2 Label elements:

Not a hazardous substance or mixture.

## 3 Composition/information on ingredients

### 3.1 Substances

**Trade name:** PreCap Amplification Mix

### 3.2 Mixtures

Glycerol 10 - 25 %  
CAS number: 56-81-5

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## 4 First Aid Measures

### 4.1 Description of first aid measures

**Eye contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any eye contact lenses. Continue to rinse for at least 15 minutes. Get medical attention if irritation occurs.

**Inhalation:** Move to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

**Skin contact:** Flush contaminated skin with plenty of water. Get medical attention if symptoms occur.

**Ingestion:** Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential acute health effects

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin contact:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin contact:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

### 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to physician:** Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments:** No specific treatment.

**Protection of first-aiders:** No action shall be taken involving any personal risk or without suitable training.

## 5 Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media:** Not known.

### 5.2 Advice for fire-fighters

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**Specific hazards arising from the chemical:** In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal decomposition products:** Decomposition products may include the following materials: Carbon oxides and acrolein.

**Special protective actions for fire-fighters:** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for firefighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode.

## 6 Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Use personal protective equipment. Do not touch or walk through spilled material. Avoid contact with skin, eyes and clothing. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

### 6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and material for containment and cleaning up

Stop the leak and move containers from spill area. Absorb with an inert dry material. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For personal protective equipment see Section 8. For disposal see Section 13.

## 7 Handling and storage

### 7.1 Precautions for safe handling

**Advice on safe handling:** Put on appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapour/spray/dust. Smoking, eating, and drinking should be prohibited in the application area. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling.

**Advice on protection against fire and explosion:** Normal measures for preventative fire protection.

### 7.2 Conditions for safe storage, including any incompatibilities

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**Technical measures and storage conditions:** Store in accordance with local regulations. Store at temperature defined on the label. Store away from oxidising materials, and food and drink.

**Requirements for storage rooms and vessels:** Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area.

Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

**Further information on storage conditions:** See Section 10 for incompatible materials before handling or use.

## 8 Exposure controls/personal protection

### 8.1 Control parameters

Glycerol (CAS: 56-81-5)

Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
TWA (mist, respirable fraction)	5 mg/m <sup>3</sup>	OSHA Z-1
TWA (mist, total dust)	15 mg/m <sup>3</sup>	OSHA Z-1
TWA (Total)	10 mg/m <sup>3</sup>	OSHA P0
TWA (respirable fraction)	5 mg/m <sup>3</sup>	OSHA P0
TWA	10 mg/m <sup>3</sup>	ACGIH

### 8.2 Exposure controls

#### Engineering controls:

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Individual protection measures:

Wash hands thoroughly after handling chemical products, before eating, smoking and using lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothes before reusing. Ensure eyewash stations and safety showers are close to the workstation location.

**Eye/face protection:** Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

**Hand protection:** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Body protection:** Personal protective equipment for the body, appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be

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approved by a specialist before handling this product.

**Environmental exposure controls:** Avoid release to the environment.

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical State:	Liquid.
Colour:	Clear.
Odour:	None.
Odour threshold:	Not available.
pH:	7.4
Melting point/freezing point:	Not available.
Initial boiling point and boiling range:	Not available.
Flash Point:	Not available.
Evaporation rate:	Not available.
Flammability (solid, gas):	Not available.
Upper/lower flammability or explosive limits:	Not available.
Vapour pressure:	Not available.
Vapour density:	Not available.
Density (g/ml):	Not available.
Relative density:	Not available.
Solubility:	Not available
Solubility (Water):	Not available.
Partition coefficient: n-octanol/water:	Not applicable.
Auto-ignition temperature:	Not available.
Decomposition Temperature (°C):	Not available.
Viscosity:	Not available.
Flow time (ISO 2431):	Not available.
Particle characteristics	
Median particle size:	Not applicable

## 10 stability and reactivity

### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

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## 10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

## 10.4 Conditions to avoid

Extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.

## 10.5 Incompatible materials

Reactive or incompatible with the following materials: oxidising materials.

## 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# 11 Toxicological Information

## 11.1 Information on toxicological effects

### Acute toxicity:

Glycerol

**Acute oral toxicity:** LD50 Oral Rat: 18,600 mg/kg.

**Acute dermal toxicity:** LD50 Dermal Guinea pig: 56.250 mg/kg.

**Acute inhalation toxicity:** LC50 Inhalation Rat > 5.85 mg/L (4 hour – Aerosol).

**Irritation/corrosion:** No data available.

**Sensitisation:** No data available.

**Carcinogenicity:** No data available.

**Reproductive toxicity:** No data available.

**Teratogenicity:** No data available.

**Specific target organ toxicity (single exposure):** No data available.

**Specific target organ toxicity (repeated exposure):** No data available.

**Aspiration hazard:** No data available.

**Information on the likely routes of exposure:** Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential acute health effects:

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin inhalation:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics:

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

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**Skin inhalation:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

**Delayed and immediate effects and also chronic effects from short and long term exposure:**

**Short term exposure**

**Potential immediate effects:** No known significant effects or critical hazards.

**Potential delayed effects:** No known significant effects or critical hazards.

**Long term exposure**

**Potential immediate effects:** No known significant effects or critical hazards.

**Potential delayed effects:** No known significant effects or critical hazards.

**Potential chronic health effects**

**General:** No known significant effects or critical hazards.

**Carcinogenicity:** No known significant effects or critical hazards.

**Mutagenicity:** No known significant effects or critical hazards.

**Reproductive toxicity:** No known significant effects or critical hazards.

## 12 Ecological information

**Toxicity:**

Ingredient	Result	Species	exposure
Glycerol	Acute LC50: 54,000 mg/L	Fish – <i>Samlo gairdneri</i>	96 hours
Glycerol	Acute LC50: 1955 mg/L	Aquatic Invertebrates – <i>Daphnia magna</i>	48 hours
Glycerol	Chronic LC50: 9471.097 mg/L	Fish – not specified	30 days

**Persistence and degradability:**

Glycerol: the substance is readily biodegradable. 94% degradation, measures by DOC removal, after 24 hours.

**Bioaccumulative potential:**

Ingredient	LogP <sub>ow</sub>	BCF	Potential
Glycerol	-1.76	-	low

**Mobility in soil**

**Soil/water partition coefficient (K<sub>oc</sub>):** Not available.

**Other adverse effects:** No known significant effects or critical hazards.

## 13 Disposal considerations

**Disposal methods:** The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and

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waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities and jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid disposal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## 14 Transport information

**UNRTDG:** Not regulated as a dangerous good.

**IATA-DGR:** Not regulated as a dangerous good.

**IMDG-Code:** Not regulated as a dangerous good.

**Environmental hazards:** No

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** No data available.

**Domestic regulation 49 CFR:** Not regulated as a dangerous good.

**Special precautions for user:** Not classified as dangerous in the meaning of transport regulations.

## 15 Regulatory information

### 15.1 Safety, health and environmental regulations/legislation for the mixture

#### EPCRA - Emergency Planning and Community Right-to-Know

**SARA 304:** Not applicable.

**SARA 311/312:** Not applicable.

**SARA 302:** No chemicals in this material are listed.

**SARA 313:** No chemicals in this material are listed.

**TSCA list:** No chemicals in this material are subject to a Significant New Use Rule. No chemicals in this material are subject to TSCA 12(b) export notification requirements.

#### US State Regulations

**California Prop 65:** No chemicals in this material are listed.

**Relevant information regarding authorization:** Occupational Health and Safety Act 1993 Regulation for Hazardous Chemical Substances.

**Relevant information regarding restrictions:** None known

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**EU regulations:** Regulation EC 1272/2008 [EU-GHS/CLP].

**Other National regulations:** None

**Chemical Safety Assessment carried out?** No

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## 16 Other Information

**Abbreviations and acronyms:** Not applicable.

**Relevant classification and H statements (number and full text):** Not applicable.

**Training instructions:** Not applicable.

**Further information:** This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

**Notice to readers:** Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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## 1 Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier:

**Trade name:** PostCap Amplification Mix

### 1.2 Details of the supplier of the safety data sheet:

Nonacus Ltd  
Unit 5 Quinton Business Park  
11 Ridgeway  
Quinton  
Birmingham  
B32 1AF

### 1.3 Emergency telephone number:

Lee Silcock +44(0)7793316851  
Chris Sale +44(0)7949922629

## 2 Hazards identification

### 2.1 Classification of the substance or mixture:

Not a hazardous substance or mixture.

### 2.2 Label elements:

Not a hazardous substance or mixture.

## 3 Composition/information on ingredients

### 3.1 Substances

**Trade name:** PostCap Amplification Mix

### 3.2 Mixtures

Glycerol 10 - 25 %  
CAS number: 56-81-5

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## 4 First Aid Measures

### 4.1 Description of first aid measures

**Eye contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any eye contact lenses. Continue to rinse for at least 15 minutes. Get medical attention if irritation occurs.

**Inhalation:** Move to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

**Skin contact:** Flush contaminated skin with plenty of water. Get medical attention if symptoms occur.

**Ingestion:** Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential acute health effects

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin contact:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin contact:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

### 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to physician:** Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments:** No specific treatment.

**Protection of first-aiders:** No action shall be taken involving any personal risk or without suitable training.

## 5 Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media:** Not known.

### 5.2 Advice for fire-fighters

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**Specific hazards arising from the chemical:** In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal decomposition products:** Decomposition products may include the following materials: Carbon oxides and acrolein.

**Special protective actions for fire-fighters:** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for firefighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode.

## 6 Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Use personal protective equipment. Do not touch or walk through spilled material. Avoid contact with skin, eyes and clothing. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

### 6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and material for containment and cleaning up

Stop the leak and move containers from spill area. Absorb with an inert dry material. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For personal protective equipment see Section 8. For disposal see Section 13.

## 7 Handling and storage

### 7.1 Precautions for safe handling

**Advice on safe handling:** Put on appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapour/spray/dust. Smoking, eating, and drinking should be prohibited in the application area. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling.

**Advice on protection against fire and explosion:** Normal measures for preventative fire protection.

### 7.2 Conditions for safe storage, including any incompatibilities

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**Technical measures and storage conditions:** Store in accordance with local regulations. Store at temperature defined on the label. Store away from oxidising materials, and food and drink.

**Requirements for storage rooms and vessels:** Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area.

Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

**Further information on storage conditions:** See Section 10 for incompatible materials before handling or use.

## 8 Exposure controls/personal protection

### 8.1 Control parameters

Glycerol (CAS: 56-81-5)

Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
TWA (mist, respirable fraction)	5 mg/m <sup>3</sup>	OSHA Z-1
TWA (mist, total dust)	15 mg/m <sup>3</sup>	OSHA Z-1
TWA (Total)	10 mg/m <sup>3</sup>	OSHA P0
TWA (respirable fraction)	5 mg/m <sup>3</sup>	OSHA P0
TWA	10 mg/m <sup>3</sup>	ACGIH

### 8.2 Exposure controls

**Engineering controls:**

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Individual protection measures:**

Wash hands thoroughly after handling chemical products, before eating, smoking and using lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothes before reusing. Ensure eyewash stations and safety showers are close to the workstation location.

**Eye/face protection:** Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree or protection: safety glasses with side-shields.

**Hand protection:** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Body protection:** Personal protective equipment for the body, appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should

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be approved by a specialist before handling this product.

**Environmental exposure controls:** Avoid release to the environment.

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical State:	Liquid.
Colour:	Clear.
Odour:	None.
Odour threshold:	Not available.
pH:	7.4
Melting point/freezing point:	Not available.
Initial boiling point and boiling range:	Not available.
Flash Point:	Not available.
Evaporation rate:	Not available.
Flammability (solid, gas):	Not available.
Upper/lower flammability or explosive limits:	Not available.
Vapour pressure:	Not available.
Vapour density:	Not available.
Density (g/ml):	Not available.
Relative density:	Not available.
Solubility:	Not available
Solubility (Water):	Not available.
Partition coefficient: n-octanol/water:	Not applicable.
Auto-ignition temperature:	Not available.
Decomposition Temperature (°C):	Not available.
Viscosity:	Not available.
Flow time (ISO 2431):	Not available.
Particle characteristics	
Median particle size:	Not applicable

## 10 Stability and reactivity

### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

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Author(s): Agata Stodolna, Kim Piechocki

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## 10.2 Chemical stability

No decomposition if stored and applied as directed.

## 10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

## 10.4 Conditions to avoid

Extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.

## 10.5 Incompatible materials

Reactive or incompatible with the following materials: oxidising materials.

## 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# 11 Toxicological Information

## 11.1 Information on toxicological effects

### Acute toxicity:

Glycerol

**Acute oral toxicity:** LD50 Oral Rat: 18,600 mg/kg.

**Acute dermal toxicity:** LD50 Dermal Guinea pig: 56.250 mg/kg.

**Acute inhalation toxicity:** LC50 Inhalation Rat > 5.85 mg/L (4 hour – Aerosol).

**Irritation/corrosion:** No data available.

**Sensitisation:** No data available.

**Carcinogenicity:** No data available.

**Reproductive toxicity:** No data available.

**Teratogenicity:** No data available.

**Specific target organ toxicity (single exposure):** No data available.

**Specific target organ toxicity (repeated exposure):** No data available.

**Aspiration hazard:** No data available.

**Information on the likely routes of exposure:** Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential acute health effects:

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin inhalation:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

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## Symptoms related to the physical, chemical and toxicological characteristics:

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin inhalation:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

## Delayed and immediate effects and also chronic effects from short and long term exposure:

### Short term exposure

**Potential immediate effects:** No known significant effects or critical hazards.

**Potential delayed effects:** No known significant effects or critical hazards.

### Long term exposure

**Potential immediate effects:** No known significant effects or critical hazards.

**Potential delayed effects:** No known significant effects or critical hazards.

### Potential chronic health effects

**General:** No known significant effects or critical hazards.

**Carcinogenicity:** No known significant effects or critical hazards.

**Mutagenicity:** No known significant effects or critical hazards.

**Reproductive toxicity:** No known significant effects or critical hazards.

## 12 Ecological information

### Toxicity:

Ingredient	Result	Species	exposure
Glycerol	Acute LC50: 54,000 mg/L	Fish – <i>Samlo gairdneri</i>	96 hours
Glycerol	Acute LC50: 1955 mg/L	Aquatic Invertebrates – <i>Daphnia magna</i>	48 hours
Glycerol	Chronic LC50: 9471.097 mg/L	Fish – not specified	30 days

### Persistence and degradability:

Glycerol: the substance is readily biodegradable. 94% degradation, measures by DOC removal, after 24 hours.

### Bioaccumulative potential:

Ingredient	LogP <sub>ow</sub>	BCF	Potential
Glycerol	-1.76	-	low

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>):** Not available.

**Other adverse effects:** No known significant effects or critical hazards.

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## 13 Disposal considerations

**Disposal methods:** The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities and jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid disposal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## 14 Transport information

**UNRTDG:** Not regulated as a dangerous good.

**IATA-DGR:** Not regulated as a dangerous good.

**IMDG-Code:** Not regulated as a dangerous good.

**Environmental hazards:** No

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** No data available.

**Domestic regulation 49 CFR:** Not regulated as a dangerous good.

**Special precautions for user:** Not classified as dangerous in the meaning of transport regulations.

## 15 Regulatory information

### 15.1 Safety, health and environmental regulations/legislation for the mixture

#### EPCRA - Emergency Planning and Community Right-to-Know

**SARA 304:** Not applicable.

**SARA 311/312:** Not applicable.

**SARA 302:** No chemicals in this material are listed.

**SARA 313:** No chemicals in this material are listed.

**TSCA list:** No chemicals in this material are subject to a Significant New Use Rule. No chemicals in this material are subject to TSCA 12(b) export notification requirements.

#### US State Regulations

**California Prop 65:** No chemicals in this material are listed.

**Relevant information regarding authorization:** Occupational Health and Safety Act 1993 Regulation for Hazardous Chemical Substances

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**Relevant information regarding restrictions:** None known.

**EU regulations:** Regulation EC 1272/2008 [EU-GHS/CLP].

**Other National regulations:** None

**Chemical Safety Assessment carried out?** No

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## 16 Other Information

**Abbreviations and acronyms:** Not applicable.

**Relevant classification and H statements (number and full text):** Not applicable.

**Training instructions:** Not applicable.

**Further information:** This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

**Notice to readers:** Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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## 1 Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier:

**Trade name:** PreCap Primer Mix

### 1.2 Details of the supplier of the safety data sheet:

Nonacus Ltd  
Unit 5 Quinton Business Park  
11 Ridgeway  
Quinton  
Birmingham  
B32 1AF

### 1.3 Emergency telephone number:

Lee Silcock +44(0)7793316851  
Chris Sale +44(0)7949922629

---

## 2 Hazards identification

### 2.1 Classification of the substance or mixture:

Not a hazardous substance or mixture.

### 2.2 Label elements:

Not a hazardous substance or mixture.

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## 3 Composition/information on ingredients

### 3.1 Substances

**Trade name:** PreCap Primer Mix  
This substance is not classified as hazardous.

### 3.2 Mixtures

There are no mixtures present which are classified as hazardous.

---

## 4 First Aid Measures

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## 4.1 Description of first aid measures

**Eye contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any eye contact lenses. Continue to rinse for at least 15 minutes. Get medical attention if irritation occurs.

**Inhalation:** Move to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

**Skin contact:** Flush contaminated skin with plenty of water. Get medical attention if symptoms occur.

**Ingestion:** Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

## 4.2 Most important symptoms and effects, both acute and delayed

### Potential acute health effects

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin contact:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

### Over-exposure signs/symptoms

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin contact:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

## 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to physician:** Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments:** No specific treatment.

**Protection of first-aiders:** No action shall be taken involving any personal risk or without suitable training.

## 5 Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media:** Not known.

### 5.2 Advice for fire-fighters

**Specific hazards arising from the chemical:** In a fire or if heated, a pressure increase will occur and the container may burst.

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**Hazardous thermal decomposition products:** Decomposition products may produce irritating and toxic fumes.

**Special protective actions for fire-fighters:** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Avoid unnecessary run-off of extinguishing media which may cause pollution.

**Special protective equipment for firefighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode.

## 6 Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Evacuate surrounding areas. Ventilate area. Keep unnecessary and unprotected personnel from entering. Use personal protective equipment. Do not touch or walk through spilled material. Avoid contact with skin, eyes and clothing. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

### 6.3 Methods and material for containment and cleaning up

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Absorb with an inert dry material. Stop the leak and move containers from spill area. Keep in suitable, closed containers for disposal. Dispose in accordance with all applicable regulations (see Section 13).

### 6.4 Reference to other sections

For personal protective equipment see Section 8. For disposal see Section 13.

## 7 Handling and storage

### 7.1 Precautions for safe handling

**Advice on safe handling:** Put on appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapour/spray/dust. Smoking, eating, and drinking should be prohibited in the application area. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling.

**Advice on protection against fire and explosion:** Normal measures for preventative fire protection.

### 7.2 Conditions for safe storage, including any incompatibilities

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**Technical measures and storage conditions:** Store in accordance with local regulations. Store at temperature defined on the label. Store away from incompatible materials, and food and drink.

**Requirements for storage rooms and vessels:** Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area.

Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

**Further information on storage conditions:** See Section 10 for incompatible materials before handling or use.

## 8 Exposure controls/personal protection

### 8.1 Control parameters

No occupational exposure limits noted for the ingredient(s).

No biological exposure limits noted for the ingredient(s).

### 8.2 Exposure controls

#### Engineering controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Individual protection measures:

Wash hands thoroughly after handling chemical products, before eating, smoking and using lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothes before reusing. Ensure eyewash stations and safety showers are close to the workstation location.

**Eye/face protection:** Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree or protection: safety glasses with side-shields.

**Hand protection:** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing.

**Body protection:** Personal protective equipment for the body, appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection:** If engineering controls do not maintain concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved

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by recognised national standards (or equivalent) must be worn.

**Environmental exposure controls:** Avoid release to the environment.

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical State:	Liquid.
Colour:	Clear.
Odour:	Mild.
Odour threshold:	Not available.
pH:	8
Melting point/freezing point:	Not available.
Initial boiling point and boiling range:	Not available.
Flash Point:	Not available.
Evaporation rate:	Not available.
Flammability (solid, gas):	Not available.
Upper/lower flammability or explosive limits:	Not available.
Vapour pressure:	Not available.
Vapour density:	Not available.
Density (g/ml):	Not available.
Relative density:	Not available.
Solubility:	Not available
Solubility (Water):	Not available.
Partition coefficient: n-octanol/water:	Not applicable.
Auto-ignition temperature:	Not available.
Decomposition Temperature (°C):	Not available.
Viscosity:	Not available.
Flow time (ISO 2431):	Not available.
Particle characteristics	
Median particle size:	Not applicable

## 10 Stability and reactivity

### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

### 10.2 Chemical stability

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No decomposition if stored and applied as directed.

## 10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

## 10.4 Conditions to avoid

Extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.

## 10.5 Incompatible materials

Reactive or incompatible with the following materials: oxidising materials.

## 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# 11 Toxicological Information

## 11.1 Information on toxicological effects

**Acute toxicity:** No data available.

**Irritation/corrosion:** No data available.

**Sensitisation:** No data available.

**Carcinogenicity:** No data available.

**Reproductive toxicity:** No data available.

**Teratogenicity:** No data available.

**Specific target organ toxicity (single exposure):** No data available.

**Specific target organ toxicity (repeated exposure):** No data available.

**Aspiration hazard:** No data available.

**Information on the likely routes of exposure:** Routes of entry anticipated: Inhalation, Ingestion, Skin contact, Eye contact.

### Potential acute health effects:

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin inhalation:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics:

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin inhalation:** No known significant effects or critical hazards.

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**Ingestion:** No known significant effects or critical hazards.

## Delayed and immediate effects and also chronic effects from short and long term exposure:

### Short term exposure

**Potential immediate effects:** No known significant effects or critical hazards.

**Potential delayed effects:** No known significant effects or critical hazards.

### Long term exposure

**Potential immediate effects:** No known significant effects or critical hazards.

**Potential delayed effects:** No known significant effects or critical hazards.

### Potential chronic health effects

**General:** No known significant effects or critical hazards.

**Carcinogenicity:** No known significant effects or critical hazards.

**Mutagenicity:** No known significant effects or critical hazards.

**Reproductive toxicity:** No known significant effects or critical hazards.

## 12 Ecological information

**Toxicity:** No data available

**Persistence and degradability:** No data available.

**Bioaccumulative potential:** No data available.

### Mobility in soil

**Soil/water partition coefficient ( $K_{oc}$ ):** No data available.

**Other adverse effects:** No data available.

## 13 Disposal considerations

**Disposal methods:** It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory agencies. Dispose of in accordance with all applicable local, regional and national regulations.

**Contaminated packages:** Not determined or not applicable.

## 14 Transport information

**UNRTDG:** Not regulated as a dangerous good.

**IATA-DGR:** Not regulated as a dangerous good.

**IMDG-Code:** Not regulated as a dangerous good.

**Environmental hazards:** No

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** No data available.

**Domestic regulation 49 CFR:** Not regulated as a dangerous good.

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**Special precautions for user:** Not classified as dangerous in the meaning of transport regulations.

## 15 Regulatory information

### 15.1 Safety, health and environmental regulations/legislation for the mixture

#### EPCRA - Emergency Planning and Community Right-to-Know

The toxicological properties of this material have not been investigated. For research and development purposes only.

**SARA 304:** Not applicable.

**SARA 311/312:** Not applicable.

**SARA 302:** Not applicable.

**SARA 313:** Not applicable.

**TSCA list:** Not applicable.

#### US State Regulations

**California Prop 65:** Not applicable.

**Relevant information regarding authorization:** Occupational Health and Safety Act 1993 Regulation for Hazardous Chemical Substances.

**Relevant information regarding restrictions:** None known.

**EU regulations:** Regulation EC 1272/2008 [EU-GHS/CLP].

**Other National regulations:** None

**Chemical Safety Assessment carried out?** No

## 16 Other Information

**Abbreviations and acronyms:** Not applicable.

**Relevant classification and H statements (number and full text):** Not applicable.

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**Training instructions:** Not applicable.

**Further information:** This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

**Notice to readers:** Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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## 1 Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier:

**Trade name:** PostCap Primer Mix

### 1.2 Details of the supplier of the safety data sheet:

Nonacus Ltd  
Unit 5 Quinton Business Park  
11 Ridgeway  
Quinton  
Birmingham  
B32 1AF

### 1.3 Emergency telephone number:

Lee Silcock +44(0)7793316851  
Chris Sale +44(0)7949922629

## 2 Hazards identification

### 2.1 Classification of the substance or mixture:

Not a hazardous substance or mixture.

### 2.2 Label elements:

Not a hazardous substance or mixture.

## 3 Composition/information on ingredients

### 3.1 Substances

**Trade name:** PostCap Primer Mix  
This substance is not classified as hazardous.

### 3.2 Mixtures

There are no mixtures present which are classified as hazardous.

## 4 First Aid Measures

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## 4.1 Description of first aid measures

**Eye contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any eye contact lenses. Continue to rinse for at least 15 minutes. Get medical attention if irritation occurs.

**Inhalation:** Move to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

**Skin contact:** Flush contaminated skin with plenty of water. Get medical attention if symptoms occur.

**Ingestion:** Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

## 4.2 Most important symptoms and effects, both acute and delayed

### Potential acute health effects

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin contact:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

### Over-exposure signs/symptoms

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin contact:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

## 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to physician:** Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments:** No specific treatment.

**Protection of first-aiders:** No action shall be taken involving any personal risk or without suitable training.

## 5 Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media:** Not known.

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## 5.2 Advice for fire-fighters

**Specific hazards arising from the chemical:** In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal decomposition products:** Decomposition products may produce irritating and toxic fumes.

**Special protective actions for fire-fighters:** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Avoid unnecessary run-off of extinguishing media which may cause pollution.

**Special protective equipment for firefighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode.

## 6 Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Evacuate surrounding areas. Ventilate area. Keep unnecessary and unprotected personnel from entering. Use personal protective equipment. Do not touch or walk through spilled material. Avoid contact with skin, eyes and clothing. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

### 6.3 Methods and material for containment and cleaning up

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Absorb with an inert dry material. Stop the leak and move containers from spill area. Keep in suitable, closed containers for disposal. Dispose in accordance with all applicable regulations (see Section 13).

### 6.4 Reference to other sections

For personal protective equipment see Section 8. For disposal see Section 13.

## 7 Handling and storage

### 7.1 Precautions for safe handling

**Advice on safe handling:** Put on appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapour/spray/dust. Smoking, eating, and drinking should be

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prohibited in the application area. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling.

**Advice on protection against fire and explosion:** Normal measures for preventative fire protection.

## 7.2 Conditions for safe storage, including any incompatibilities

**Technical measures and storage conditions:** Store in accordance with local regulations. Store at temperature defined on the label. Store away from incompatible materials, and food and drink.

**Requirements for storage rooms and vessels:** Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area.

Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

**Further information on storage conditions:** See Section 10 for incompatible materials before handling or use.

## 8 Exposure controls/personal protection

### 8.1 Control parameters

No occupational exposure limits noted for the ingredient(s).

No biological exposure limits noted for the ingredient(s).

### 8.2 Exposure controls

#### Engineering controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Individual protection measures:

Wash hands thoroughly after handling chemical products, before eating, smoking and using lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothes before reusing. Ensure eyewash stations and safety showers are close to the workstation location.

**Eye/face protection:** Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree or protection: safety glasses with side-shields.

**Hand protection:** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing.

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**Body protection:** Personal protective equipment for the body, appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection:** If engineering controls do not maintain concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognised national standards (or equivalent) must be worn.

**Environmental exposure controls:** Avoid release to the environment.

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical State:	Liquid.
Colour:	Clear.
Odour:	Mild.
Odour threshold:	Not available.
pH:	8
Melting point/freezing point:	Not available.
Initial boiling point and boiling range:	Not available.
Flash Point:	Not available.
Evaporation rate:	Not available.
Flammability (solid, gas):	Not available.
Upper/lower flammability or explosive limits:	Not available.
Vapour pressure:	Not available.
Vapour density:	Not available.
Density (g/ml):	Not available.
Relative density:	Not available.
Solubility:	Not available
Solubility (Water):	Not available.
Partition coefficient: n-octanol/water:	Not applicable.
Auto-ignition temperature:	Not available.
Decomposition Temperature (°C):	Not available.
Viscosity:	Not available.
Flow time (ISO 2431):	Not available.
Particle characteristics	
Median particle size:	Not applicable

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## 10 Stability and reactivity

### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

### 10.4 Conditions to avoid

Extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.

### 10.5 Incompatible materials

Reactive or incompatible with the following materials: oxidising materials.

### 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11 Toxicological Information

### 11.1 Information on toxicological effects

**Acute toxicity:** No data available.

**Irritation/corrosion:** No data available.

**Sensitisation:** No data available.

**Carcinogenicity:** No data available.

**Reproductive toxicity:** No data available.

**Teratogenicity:** No data available.

**Specific target organ toxicity (single exposure):** No data available.

**Specific target organ toxicity (repeated exposure):** No data available.

**Aspiration hazard:** No data available.

**Information on the likely routes of exposure:** Routes of entry anticipated: Inhalation, Ingestion, Skin contact, Eye contact.

#### Potential acute health effects:

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin inhalation:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

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Author(s): Agata Stodolna, Kim Piechocki, Reference: 1572-121868547, Due for review on: 24-Nov-2024

Author(s): Agata Stodolna, Kim Piechocki

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## Symptoms related to the physical, chemical and toxicological characteristics:

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin inhalation:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

## Delayed and immediate effects and also chronic effects from short and long term exposure:

### Short term exposure

**Potential immediate effects:** No known significant effects or critical hazards.

**Potential delayed effects:** No known significant effects or critical hazards.

### Long term exposure

**Potential immediate effects:** No known significant effects or critical hazards.

**Potential delayed effects:** No known significant effects or critical hazards.

### Potential chronic health effects

**General:** No known significant effects or critical hazards.

**Carcinogenicity:** No known significant effects or critical hazards.

**Mutagenicity:** No known significant effects or critical hazards.

**Reproductive toxicity:** No known significant effects or critical hazards.

## 12 Ecological information

**Toxicity:** No data available

**Persistence and degradability:** No data available.

**Bioaccumulative potential:** No data available.

### Mobility in soil

**Soil/water partition coefficient ( $K_{oc}$ ):** No data available.

**Other adverse effects:** No data available.

## 13 Disposal considerations

**Disposal methods:** It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory agencies. Dispose of in accordance with all applicable local, regional and national regulations.

**Contaminated packages:** Not determined or not applicable.

## 14 Transport information

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**UNRTDG:** Not regulated as a dangerous good.

**IATA-DGR:** Not regulated as a dangerous good.

**IMDG-Code:** Not regulated as a dangerous good.

**Environmental hazards:** No

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** No data available.

**Domestic regulation 49 CFR:** Not regulated as a dangerous good.

**Special precautions for user:** Not classified as dangerous in the meaning of transport regulations.

## 15 Regulatory information

### 15.1 Safety, health and environmental regulations/legislation for the mixture

#### EPCRA - Emergency Planning and Community Right-to-Know

The toxicological properties of this material have not been investigated. For research and development purposes only.

**SARA 304:** Not applicable.

**SARA 311/312:** Not applicable.

**SARA 302:** Not applicable.

**SARA 313:** Not applicable.

**TSCA list:** Not applicable.

#### US State Regulations

**California Prop 65:** Not applicable.

**Relevant information regarding authorization:** Occupational Health and Safety Act 1993 Regulation for Hazardous Chemical Substances.

**Relevant information regarding restrictions:** None known.

**EU regulations:** Regulation EC 1272/2008 [EU-GHS/CLP].

**Other National regulations:** None

**Chemical Safety Assessment carried out?** No

## 16 Other Information

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Author(s): Agata Stodolna, Kim Piechocki

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**Abbreviations and acronyms:** Not applicable.

**Relevant classification and H statements (number and full text):** Not applicable.

**Training instructions:** Not applicable.

**Further information:** This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

**Notice to readers:** Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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## 1 Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier:

**Trade name:** Adapter plate: 1 – 16, 1 – 48, 1 – 96, 97 – 192, 193 – 288, 289 – 384

### 1.2 Details of the supplier of the safety data sheet:

Nonacus Ltd  
Unit 5 Quinton Business Park  
11 Ridgeway  
Quinton  
Birmingham  
B32 1AF

### 1.3 Emergency telephone number:

Lee Silcock +44(0)7793316851  
Chris Sale +44(0)7949922629

## 2 Hazards identification

### 2.1 Classification of the substance or mixture:

Not a hazardous substance or mixture.

### 2.2 Label elements:

Not a hazardous substance or mixture.

## 3 Composition/information on ingredients

### 3.1 Substances

**Trade name:** Illumina UMI adapters: UMIRC\_AD01-16/01-48/01-96

This substance is not classified as hazardous.

### 3.2 Mixtures

Oligo-deoxyribonucleic acid, unmodified 100%

There are no mixtures present which are classified as hazardous.

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## 4 First Aid Measures

### 4.1 Description of first aid measures

**Eye contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any eye contact lenses. Continue to rinse for at least 15 minutes. Get medical attention if irritation occurs.

**Inhalation:** Move to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

**Skin contact:** Flush contaminated skin with plenty of water and then wash with soap or mild detergent and water. Observe for signs of irritation. Get medical attention if symptoms occur.

**Ingestion:** Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential acute health effects

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin contact:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin contact:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

### 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to physician:** Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments:** No specific treatment.

**Protection of first-aiders:** No action shall be taken involving any personal risk or without suitable training.

## 5 Firefighting measures

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## 5.1 Extinguishing media

**Suitable extinguishing media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Care should be taken as to not aerosolize the powder, where it could become an inhalation risk.

**Unsuitable extinguishing media:** Not known.

## 5.2 Advice for fire-fighters

**Specific hazards arising from the chemical:** In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal decomposition products:** Decomposition products may produce irritating and toxic fumes.

**Special protective actions for fire-fighters:** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts.

**Special protective equipment for firefighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode.

## 6 Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

No specific recommendations. For personal protection, see Section 8.

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Avoid release to the environment.

### 6.3 Methods and material for containment and cleaning up

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Absorb with an inert dry material. Stop the leak and move containers from spill area. Keep in suitable, closed containers for disposal. Dispose in accordance with all applicable regulations (see Section 13).

### 6.4 Reference to other sections

For personal protective equipment see Section 8. For disposal see Section 13.

## 7 Handling and storage

### 7.1 Precautions for safe handling

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**Advice on safe handling:** Put on appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapour/spray/dust. Smoking, eating, and drinking should be prohibited in the application area. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling.

**Advice on protection against fire and explosion:** Normal measures for preventative fire protection.

## 7.2 Conditions for safe storage, including any incompatibilities

**Technical measures and storage conditions:** Store in accordance with local regulations. Store at temperature defined on the label. Store away from incompatible materials, and food and drink.

**Requirements for storage rooms and vessels:** Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area.

Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

**Further information on storage conditions:** See Section 10 for incompatible materials before handling or use.

## 8 Exposure controls/personal protection

### 8.1 Control parameters

No exposure limits for the ingredient(s).

### 8.2 Exposure controls

#### Engineering controls:

Use in a laboratory hood or other ventilated device. OSHA, ACGIH, or NIOSH has not established occupational exposure limits for this substance. Use prudent laboratory practices for handling chemical substances of unknown toxicity.

#### Individual protection measures:

Wash hands thoroughly after handling chemical products, before eating, smoking and using lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothes before reusing. Ensure eyewash stations and safety showers are close to the workstation location.

**Eye/face protection:** Splash proof or dust resistant safety goggles should be worn to prevent eye contact with this substance.

**Hand protection:** Appropriate protective gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing.

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Author(s): Agata Stodolna, Kim Piechocki

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**Body protection:** Personal protective equipment for the body, appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Environmental exposure controls:** Avoid release to the environment.

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical State:	Liquid.
Colour:	Clear.
Odour:	None.
Odour threshold:	Not available.
pH:	Not available
Melting point/freezing point:	Not available.
Initial boiling point and boiling range:	Not available.
Flash Point:	Not available.
Evaporation rate:	Not available.
Flammability (solid, gas):	Not available.
Upper/lower flammability or explosive limits:	Not available.
Vapour pressure:	Not available.
Vapour density:	Not available.
Density (g/ml):	Not available.
Relative density:	Not available.
Solubility:	Not available
Solubility (Water):	Not available.
Partition coefficient: n-octanol/water:	Not applicable.
Auto-ignition temperature:	Not available.
Decomposition Temperature (°C):	Not available.
Viscosity:	Not available.
Flow time (ISO 2431):	Not available.
Particle characteristics	
Median particle size:	Not applicable

## 10 stability and reactivity

### 10.1 Reactivity

No adverse reactions have been reported.

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## 10.2 Chemical stability

No decomposition if stored and applied as directed.

## 10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

## 10.4 Conditions to avoid

Prolonged storage.

## 10.5 Incompatible materials

Not available.

## 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# 11 Toxicological Information

## 11.1 Information on toxicological effects

**Acute toxicity:** The toxicological properties of this material have not been investigated.

**Irritation/corrosion:** No data available.

**Sensitisation:** No data available.

**Carcinogenicity:** No data available.

**Reproductive toxicity:** No data available.

**Teratogenicity:** No data available.

**Specific target organ toxicity (single exposure):** No data available.

**Specific target organ toxicity (repeated exposure):** No data available.

**Aspiration hazard:** No data available.

**Information on the likely routes of exposure:** Routes of entry anticipated: Inhalation, Ingestion, Skin contact, Eye contact.

### Potential acute health effects:

**Eye contact:** Possible irritant.

**Inhalation:** Possible irritant.

**Skin contact:** Possible irritant.

**Ingestion:** Possible irritant.

### Symptoms related to the physical, chemical and toxicological characteristics:

**Eye contact:** No known significant effects or critical hazards.

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**Inhalation:** No known significant effects or critical hazards.

**Skin inhalation:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

## Delayed and immediate effects and also chronic effects from short and long term exposure:

### Short term exposure

**Potential immediate effects:** No known significant effects or critical hazards.

**Potential delayed effects:** No known significant effects or critical hazards.

### Long term exposure

**Potential immediate effects:** No known significant effects or critical hazards.

**Potential delayed effects:** No known significant effects or critical hazards.

### Potential chronic health effects

**General:** No known significant effects or critical hazards.

**Carcinogenicity:** No known significant effects or critical hazards.

**Mutagenicity:** No known significant effects or critical hazards.

**Reproductive toxicity:** No known significant effects or critical hazards.

## 12 Ecological information

**Toxicity:** No data available.

**Persistence and degradability:** No data available.

**Bioaccumulative potential:** No data available.

### Mobility in soil

**Soil/water partition coefficient ( $K_{oc}$ ):** No data available.

**Other adverse effects:** No data available.

## 13 Disposal considerations

**Disposal methods:** It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory agencies. Dispose of in accordance with all applicable local, regional, and national regulations.

**Contaminated packages:** Not determined or not applicable.

## 14 Transport information

**UNRTDG:** Not regulated as a dangerous good.

**IATA-DGR:** Not regulated as a dangerous good.

**IMDG-Code:** Not regulated as a dangerous good.

**Environmental hazards:** No

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Author(s): Agata Stodolna, Kim Piechocki

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**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** No data available.

**Domestic regulation 49 CFR:** Not regulated as a dangerous good.

**Special precautions for user:** Not classified as dangerous in the meaning of transport regulations.

## 15 Regulatory information

### 15.1 Safety, health and environmental regulations/legislation for the mixture

#### EPCRA - Emergency Planning and Community Right-to-Know

The toxicological properties of this material have not been investigated. For research and development purposes only.

**SARA 304:** Not applicable.

**SARA 311/312:** Not applicable.

**SARA 302:** Not applicable.

**SARA 313:** Not applicable.

**TSCA list:** Not applicable.

#### US State Regulations

**California Prop 65:** Not applicable.

**Relevant information regarding authorization:** Occupational Health and Safety Act 1993 Regulation for Hazardous Chemical Substances.

**Relevant information regarding restrictions:** None known.

**EU regulations:** Regulation EC 1272/2008 [EU-GHS/CLP].

**Other National regulations:** None

**Chemical Safety Assessment carried out?** No

## 16 Other Information

**Abbreviations and acronyms:** Not applicable.

**Relevant classification and H statements (number and full text):** Not applicable.

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**Training instructions:** Not applicable.

**Further information:** This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

**Notice to readers:** Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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## 1 Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier:

**Trade name:** Probe Panels

### 1.2 Details of the supplier of the safety data sheet:

Nonacus Ltd  
Unit 5 Quinton Business Park  
11 Ridgeway  
Quinton  
Birmingham  
B32 1AF

### 1.3 Emergency telephone number:

Lee Silcock +44(0)7793316851  
Chris Sale +44(0)7949922629

## 2 Hazards identification

### 2.1 Classification of the substance or mixture:

Not a hazardous substance or mixture.

### 2.2 Label elements:

Not a hazardous substance or mixture.

## 3 Composition/information on ingredients

### 3.1 Substances

**Trade name:** Probe Panels

This substance is not classified as hazardous.

### 3.2 Mixtures

Oligo-deoxyribonucleic acid	85% - 95%
Non-Radioactive modification	5% - 15%

There are no mixtures present which are classified as hazardous.

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Author(s): Agata Stodolna, Kim Piechocki

## 4 First Aid Measures

### 4.1 Description of first aid measures

**Eye contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any eye contact lenses. Continue to rinse for at least 15 minutes. Get medical attention if irritation occurs.

**Inhalation:** Move to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

**Skin contact:** Remove contaminated clothing. Flush contaminated skin with plenty of water and then wash with soap or mild detergent and water. Observe for signs of irritation. Get medical attention if symptoms occur.

**Ingestion:** Get medical attention.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential acute health effects

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin contact:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin contact:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

### 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to physician:** There is no specific antidote. Treat symptomatically and supportively.

**Specific treatments:** No specific treatment.

**Protection of first-aiders:** No action shall be taken involving any personal risk or without suitable training.

## 5 Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Care should be taken as to not aerosolize the powder, where it could become an inhalation risk.

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**Unsuitable extinguishing media:** Not known.

## 5.2 Advice for fire-fighters

**Specific hazards arising from the chemical:** In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal decomposition products:** Decomposition products may produce irritating and toxic fumes.

**Special protective actions for fire-fighters:** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts.

**Special protective equipment for firefighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode.

## 6 Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

No specific recommendations. For personal protection, see Section 8.

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Avoid release to the environment.

### 6.3 Methods and material for containment and cleaning up

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Absorb with an inert dry material. Stop the leak and move containers from spill area. Keep in suitable, closed containers for disposal. Dispose in accordance with all applicable regulations (see Section 13).

### 6.4 Reference to other sections

For personal protective equipment see Section 8. For disposal see Section 13.

## 7 Handling and storage

### 7.1 Precautions for safe handling

**Advice on safe handling:** Put on appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapour/spray/dust. Smoking, eating, and drinking should be

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prohibited in the application area. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling.

**Advice on protection against fire and explosion:** Normal measures for preventative fire protection.

## 7.2 Conditions for safe storage, including any incompatibilities

**Technical measures and storage conditions:** Store in accordance with local regulations. Store at temperature defined on the label. Store away from incompatible materials, and food and drink.

**Requirements for storage rooms and vessels:** Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area.

Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

**Further information on storage conditions:** See Section 10 for incompatible materials before handling or use.

## 8 Exposure controls/personal protection

### 8.1 Control parameters

No exposure limits for the ingredient(s).

### 8.2 Exposure controls

#### Engineering controls:

Use in a laboratory hood or other ventilated device. OSHA, ACGIH, or NIOSH has not established occupational exposure limits for this substance. Use prudent laboratory practices for handling chemical substances of unknown toxicity.

#### Individual protection measures:

Wash hands thoroughly after handling chemical products, before eating, smoking and using lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothes before reusing. Ensure eyewash stations and safety showers are close to the workstation location.

**Eye/face protection:** Splash proof or dust resistant safety goggles should be worn to prevent eye contact with this substance.

**Hand protection:** Appropriate protective gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing.

**Body protection:** Personal protective equipment for the body, appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should

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be approved by a specialist before handling this product.

**Environmental exposure controls:** Avoid release to the environment.

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical State:	Liquid.
Colour:	Clear.
Odour:	None.
Odour threshold:	Not available.
pH:	Not available
Melting point/freezing point:	Not available.
Initial boiling point and boiling range:	Not available.
Flash Point:	Not available.
Evaporation rate:	Not available.
Flammability (solid, gas):	Not available.
Upper/lower flammability or explosive limits:	Not available.
Vapour pressure:	Not available.
Vapour density:	Not available.
Density (g/ml):	Not available.
Relative density:	Not available.
Solubility:	Not available
Solubility (Water):	Not available.
Partition coefficient: n-octanol/water:	Not applicable.
Auto-ignition temperature:	Not available.
Decomposition Temperature (°C):	Not available.
Viscosity:	Not available.
Flow time (ISO 2431):	Not available.
Particle characteristics	
Median particle size:	Not applicable

## 10 stability and reactivity

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## 10.1 Reactivity

No adverse reactions have been reported.

## 10.2 Chemical stability

No decomposition if stored and applied as directed.

## 10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

## 10.4 Conditions to avoid

Prolonged storage

## 10.5 Incompatible materials

Not available.

## 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# 11 Toxicological Information

## 11.1 Information on toxicological effects

**Acute toxicity:** The toxicological properties of this material have not been investigated.

**Irritation/corrosion:** No data available.

**Sensitisation:** No data available.

**Carcinogenicity:** No data available.

**Reproductive toxicity:** No data available.

**Teratogenicity:** No data available.

**Specific target organ toxicity (single exposure):** No data available.

**Specific target organ toxicity (repeated exposure):** No data available.

**Aspiration hazard:** No data available.

**Information on the likely routes of exposure:** Routes of entry anticipated: Inhalation, Ingestion, Skin contact, Eye contact.

### Potential acute health effects:

**Eye contact:** Possible irritant.

**Inhalation:** Possible irritant.

**Skin contact:** Possible irritant.

**Ingestion:** Possible irritant.

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## Symptoms related to the physical, chemical and toxicological characteristics:

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin inhalation:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

## Delayed and immediate effects and also chronic effects from short and long term exposure:

### Short term exposure

**Potential immediate effects:** No known significant effects or critical hazards.

**Potential delayed effects:** No known significant effects or critical hazards.

### Long term exposure

**Potential immediate effects:** No known significant effects or critical hazards.

**Potential delayed effects:** No known significant effects or critical hazards.

### Potential chronic health effects

**General:** No known significant effects or critical hazards.

**Carcinogenicity:** No known significant effects or critical hazards.

**Mutagenicity:** No known significant effects or critical hazards.

**Reproductive toxicity:** No known significant effects or critical hazards.

## 12 Ecological information

**Toxicity:** No data available.

**Persistence and degradability:** No data available.

**Bioaccumulative potential:** No data available.

### Mobility in soil

**Soil/water partition coefficient ( $K_{oc}$ ):** No data available.

**Other adverse effects:** No data available.

## 13 Disposal considerations

**Disposal methods:** It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory agencies. Dispose of in accordance with all applicable local, regional, and national regulations.

**Contaminated packages:** Not determined or not applicable.

## 14 Transport information

**UNRTDG:** Not regulated as a dangerous good

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**IATA-DGR:** Not regulated as a dangerous good.

**IMDG-Code:** Not regulated as a dangerous good.

**Environmental hazards:** No

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** No data available.

**Domestic regulation 49 CFR:** Not regulated as a dangerous good.

**Special precautions for user:** Not classified as dangerous in the meaning of transport regulations.

## 15 Regulatory information

### 15.1 Safety, health and environmental regulations/legislation for the mixture

#### EPCRA - Emergency Planning and Community Right-to-Know

The toxicological properties of this material have not been investigated. For research and development purposes only.

**SARA 304:** Not applicable.

**SARA 311/312:** Not applicable.

**SARA 302:** Not applicable.

**SARA 313:** Not applicable.

**TSCA list:** Not applicable.

#### US State Regulations

**California Prop 65:** Not applicable.

**Relevant information regarding authorization:** Occupational Health and Safety Act 1993 Regulation for Hazardous Chemical Substances.

**Relevant information regarding restrictions:** None known.

**EU regulations:** Regulation EC 1272/2008 [EU-GHS/CLP].

**Other National regulations:** None

**Chemical Safety Assessment carried out?** No

## 16 Other Information

### Abbreviations and acronyms: Not applicable

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**Relevant classification and H statements (number and full text):** Not applicable.

**Training instructions:** Not applicable.

**Further information:** This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

**Notice to readers:** Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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## 1 Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier:

**Trade name:** COT-1 Human DNA

### 1.2 Details of the supplier of the safety data sheet:

Nonacus Ltd  
Unit 5 Quinton Business Park  
11 Ridgeway  
Quinton  
Birmingham  
B32 1AF

### 1.3 Emergency telephone number:

Lee Silcock +44(0)7793316851  
Chris Sale +44(0)7949922629

## 2 Hazards identification

### 2.1 Classification of the substance or mixture:

Not a hazardous substance or mixture.

### 2.2 Label elements:

Not a hazardous substance or mixture.

## 3 Composition/information on ingredients

### 3.1 Substances

**Trade name:** COT-1 Human DNA

This substance is not classified as hazardous.

### 3.2 Mixtures

There are no mixtures present which are classified as hazardous.

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## 4 First Aid Measures

### 4.1 Description of first aid measures

**Eye contact:** Rinse with plenty of water. Immediate medical attention is not required. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

**Inhalation:** Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult physician if necessary.

**Skin contact:** Rinse with plenty of water. Immediate medical attention is not required.

**Ingestion:** Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If feeling unwell, seek medical advice.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential acute health effects

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin contact:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin contact:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

### 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to physician:** Treat symptomatically.

**Specific treatments:** No specific treatment.

**Protection of first-aiders:** No action shall be taken involving any personal risk or without suitable training.

## 5 Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media:** Water spray, carbon dioxide (CO<sub>2</sub>), foam, dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media:** Not known.

### 5.2 Advice for fire-fighters

**Specific hazards arising from the chemical:** N/A.

**Hazardous thermal decomposition products:** N/A.

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**Special protective actions for fire-fighters:** Standard procedure for chemical fires.

**Special protective equipment for firefighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode.

## 6 Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Always wear recommended Personal Protective Equipment. For personal protection see Section 8.

### 6.2 Environmental precautions

No special environmental precautions required. Avoid discharge into drains and waterways whenever possible.

### 6.3 Methods and material for containment and cleaning up

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Absorb with an inert dry material. Stop the leak and move containers from spill area. Dispose in accordance with all applicable regulations (see Section 13).

### 6.4 Reference to other sections

For personal protective equipment see Section 8. For disposal see Section 13.

## 7 Handling and storage

### 7.1 Precautions for safe handling

**Advice on safe handling:** Put on appropriate personal protective equipment (see Section 8). No special handling advices are necessary.

**Advice on protection against fire and explosion:** Normal measures for preventative fire protection.

### 7.2 Conditions for safe storage, including any incompatibilities

**Technical measures and storage conditions:** Store in accordance with local regulations. Store at temperature defined on the label. Store away from incompatible materials, and food and drink.

**Requirements for storage rooms and vessels:** Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area.

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Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

**Further information on storage conditions:** See Section 10 for incompatible materials before handling or use.

## 8 Exposure controls/personal protection

### 8.1 Control parameters

### 8.2 Exposure controls

**Engineering controls:**

Ensure adequate ventilation, especially in confined areas. Provide showers, and eyewash stations.

**Individual protection measures:**

Wash hands thoroughly after handling chemical products, before eating, smoking and using lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothes before reusing. Ensure eyewash stations and safety showers are close to the workstation location.

**Eye/face protection:** Tight sealing protective safety goggles should be worn to prevent eye contact with this substance.

**Hand protection:** Appropriate protective gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing.

**Body protection:** Personal protective equipment for the body, appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Environmental exposure controls:** No special environmental precautions required. Avoid release to the environment.

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical State: Liquid.

Colour: Clear.

Odour: Not available.

Odour threshold: Not available.

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pH:	Not available
Melting point/freezing point:	Not available.
Initial boiling point and boiling range:	Not available.
Flash Point:	Not available.
Evaporation rate:	Not available.
Flammability (solid, gas):	Not available.
Upper/lower flammability or explosive limits:	Not available.
Vapour pressure:	Not available.
Vapour density:	Not available.
Density (g/ml):	Not available.
Relative density:	Not available.
Solubility:	Not available
Solubility (Water):	Not available.
Partition coefficient: n-octanol/water:	Not applicable.
Auto-ignition temperature:	Not available.
Decomposition Temperature (°C):	Not available.
Viscosity:	Not available.
Flow time (ISO 2431):	Not available.
Particle characteristics	
Median particle size:	Not applicable

## 10 stability and reactivity

### 10.1 Reactivity

No adverse reactions have been reported.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

### 10.4 Conditions to avoid

Not available.

### 10.5 Incompatible materials

No dangerous reaction known under conditions of normal use.

### 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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Author(s): Agata Stodolna, Kim Piechocki

## 11 Toxicological Information

### 11.1 Information on toxicological effects

**Acute toxicity:** there is no evidence available indicating acute toxicity.

**Irritation/corrosion:** Conclusive but not sufficient for classification. May cause eye and skin irritation in susceptible persons.

**Sensitisation:** Conclusive but not sufficient for classification.

**Carcinogenicity:** Conclusive but not sufficient for classification.

**Reproductive toxicity:** Conclusive but not sufficient for classification.

**Teratogenicity:** No data available.

**Specific target organ toxicity (single exposure):** Conclusive but not sufficient for classification.

**Specific target organ toxicity (repeated exposure):** Conclusive but not sufficient for classification.

**Aspiration hazard:** No data available.

**Information on the likely routes of exposure:** Routes of entry anticipated: Inhalation, Ingestion, Skin contact, Eye contact.

#### Potential acute health effects:

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin contact:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics:

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin inhalation:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

#### Delayed and immediate effects and also chronic effects from short and long term exposure:

##### Short term exposure

**Potential immediate effects:** No known significant effects or critical hazards.

**Potential delayed effects:** No known significant effects or critical hazards.

##### Long term exposure

**Potential immediate effects:** No known significant effects or critical hazards.

**Potential delayed effects:** No known significant effects or critical hazards.

#### Potential chronic health effects

**General:** No known significant effects or critical hazards.

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**Carcinogenicity:** No known significant effects or critical hazards.

**Mutagenicity:** No known significant effects or critical hazards.

**Reproductive toxicity:** No known significant effects or critical hazards.

## 12 Ecological information

**Toxicity:** Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

**Persistence and degradability:** No data available.

**Bioaccumulative potential:** No data available.

### Mobility in soil

**Soil/water partition coefficient ( $K_{oc}$ ):** No data available.

**Other adverse effects:** No data available.

## 13 Disposal considerations

**Disposal methods:** The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in accordance to approved disposal techniques. Keep out of drains, sewers, ditches, and waterways. Consult Waste Management Authority for disposal. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

**Contaminated packages:** Not determined or not applicable.

## 14 Transport information

**UNRTDG:** Not regulated as a dangerous good.

**IATA-DGR:** Not regulated as a dangerous good.

**IMDG-Code:** Not regulated as a dangerous good.

**Environmental hazards:** No

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** No data available.

**Domestic regulation 49 CFR:** Not regulated as a dangerous good.

**Special precautions for user:** Not classified as dangerous in the meaning of transport regulations.

## 15 Regulatory information

### 15.1 Safety, health and environmental regulations/legislation for the mixture

**EPCRA - Emergency Planning and Community Right-to-Know**

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**SARA 304:** Not applicable.

**SARA 311/312:** Not applicable.

**SARA 302:** Not applicable.

**SARA 313:** This product is not regulated by SARA.

**TSCA list:** Not applicable.

## US State Regulations

**California Prop 65:** This product does not contain any Proposition 65 chemicals.

**Relevant information regarding authorization:** Occupational Health and Safety Act 1993 Regulation for Hazardous Chemical Substances.

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61):** This product does not contain HAPs.

**Relevant information regarding restrictions:** None known.

**EU regulations:** Regulation EC 1272/2008 [EU-GHS/CLP].

**Other National regulations:** None

**Chemical Safety Assessment carried out?** No

## 16 Other Information

**Abbreviations and acronyms:** Not applicable.

**Relevant classification and H statements (number and full text):** Not applicable.

**Training instructions:** Not applicable.

**Further information:** This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

**Notice to readers:** Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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## 1 Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier:

**Trade name:** Universal Blockers

### 1.2 Details of the supplier of the safety data sheet:

Nonacus Ltd  
Unit 5 Quinton Business Park  
11 Ridgeway  
Quinton  
Birmingham  
B32 1AF

### 1.3 Emergency telephone number:

Lee Silcock +44(0)7793316851  
Chris Sale +44(0)7949922629

## 2 Hazards identification

### 2.1 Classification of the substance or mixture:

Not a hazardous substance or mixture.

### 2.2 Label elements:

Not a hazardous substance or mixture.

## 3 Composition/information on ingredients

### 3.1 Substances

**Trade name:** Universal Blockers

This substance is not classified as hazardous.

### 3.2 Mixtures

**Ingredients:** Oligodeoxyribonucleic acid, unmodified 100%

There are no mixtures present which are classified as hazardous.

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## 4 First Aid Measures

### 4.1 Description of first aid measures

**Eye contact:** Wash eyes with large amounts of water or normal saline for at least 15 minutes. Observe for signs of irritation. Get medical attention if symptoms occur.

**Inhalation:** Remove from exposure area to fresh air immediately. Get medical attention immediately.

**Skin contact:** Remove contaminated clothing. Flush affected area with water and then wash with soap or mild detergent and water. Observe for signs of irritation. If irritation is present, get medical attention.

**Ingestion:** Observe for signs of irritation. Get medical attention if symptoms occur.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential acute health effects

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin contact:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin contact:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

### 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to physician:** Treat symptomatically.

**Specific treatments:** No specific treatment.

**Protection of first-aiders:** No action shall be taken involving any personal risk or without suitable training.

## 5 Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media:** Dry chemical, foam, carbon dioxide or water. Care should be taken as to not aerosolize the powder, where it could become an inhalation risk. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media:** Not known.

### 5.2 Advice for fire-fighters

**Specific hazards arising from the chemical:** N/A.

**Hazardous thermal decomposition products:** N/A.

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**Special protective actions for fire-fighters:** Standard procedure for chemical fires.

**Special protective equipment for firefighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode.

## 6 Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Always wear recommended Personal Protective Equipment. For personal protection see Section 8.

### 6.2 Environmental precautions

No special environmental precautions required. Avoid discharge into drains and waterways whenever possible.

### 6.3 Methods and material for containment and cleaning up

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Absorb with an inert dry material. Stop the leak and move containers from spill area. Dispose in accordance with all applicable regulations (see Section 13).

### 6.4 Reference to other sections

For personal protective equipment see Section 8. For disposal see Section 13.

## 7 Handling and storage

### 7.1 Precautions for safe handling

**Advice on safe handling:** Put on appropriate personal protective equipment (see Section 8). No special handling advice is necessary.

**Advice on protection against fire and explosion:** Normal measures for preventative fire protection.

### 7.2 Conditions for safe storage, including any incompatibilities

**Technical measures and storage conditions:** Store in accordance with local regulations. Store at temperature defined on the label. Store away from incompatible materials, and food and drink.

**Requirements for storage rooms and vessels:** Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area.

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Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

**Further information on storage conditions:** See Section 10 for incompatible materials before handling or use.

## 8 Exposure controls/personal protection

### 8.1 Control parameters

No exposure limits for the ingredient(s).

### 8.2 Exposure controls

#### Engineering controls:

Ensure adequate ventilation, especially in confined areas. Use in a laboratory hood or other ventilated device.

#### Individual protection measures:

Wash hands thoroughly after handling chemical products, before eating, smoking and using lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothes before reusing. Ensure eyewash stations and safety showers are close to the workstation location.

**Eye/face protection:** Tight sealing protective safety goggles should be worn to prevent eye contact with this substance.

**Hand protection:** Appropriate protective gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing.

**Body protection:** Personal protective equipment for the body, appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Environmental exposure controls:** No special environmental precautions required. Avoid release to the environment.

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

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Physical State:	Liquid.
Colour:	Clear.
Odour:	Not available.
Odour threshold:	Not available.
pH:	Not available
Melting point/freezing point:	Not available.
Initial boiling point and boiling range:	Not available.
Flash Point:	Not available.
Evaporation rate:	Not available.
Flammability (solid, gas):	Not available.
Upper/lower flammability or explosive limits:	Not available.
Vapour pressure:	Not available.
Vapour density:	Not available.
Density (g/ml):	Not available.
Relative density:	Not available.
Solubility:	Not available
Solubility (Water):	Not available.
Partition coefficient: n-octanol/water:	Not applicable.
Auto-ignition temperature:	Not available.
Decomposition Temperature (°C):	Not available.
Viscosity:	Not available.
Flow time (ISO 2431):	Not available.
Particle characteristics	
Median particle size:	Not applicable

## 10 stability and reactivity

### 10.1 Reactivity

No adverse reactions have been reported.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

### 10.4 Conditions to avoid

Prolonged storage.

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## 10.5 Incompatible materials

No dangerous reaction known under conditions of normal use.

## 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11 Toxicological Information

### 11.1 Information on toxicological effects

**Acute toxicity:** there is no evidence available indicating acute toxicity.

**Irritation/corrosion:** No known significant effects or critical hazards.

**Sensitisation:** No known significant effects or critical hazards.

**Carcinogenicity:** No known significant effects or critical hazards.

**Reproductive toxicity:** No known significant effects or critical hazards.

**Teratogenicity:** No known significant effects or critical hazards.

**Specific target organ toxicity (single exposure):** No known significant effects or critical hazards.

**Specific target organ toxicity (repeated exposure):** No known significant effects or critical hazards.

**Aspiration hazard:** No data available.

**Information on the likely routes of exposure:** Routes of entry anticipated: Inhalation, Ingestion, Skin contact, Eye contact.

#### Potential acute health effects:

**Eye contact:** Possible Irritant.

**Inhalation:** Possible Irritant.

**Skin contact:** Possible Irritant.

**Ingestion:** Possible Irritant.

#### Symptoms related to the physical, chemical and toxicological characteristics:

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin inhalation:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

#### Delayed and immediate effects and also chronic effects from short and long term exposure:

##### Short term exposure

**Potential immediate effects:** No known significant effects or critical hazards.

**Potential delayed effects:** No known significant effects or critical hazards.

##### Long term exposure

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**Potential immediate effects:** No known significant effects or critical hazards.

**Potential delayed effects:** No known significant effects or critical hazards.

## Potential chronic health effects

**General:** No known significant effects or critical hazards.

**Carcinogenicity:** No known significant effects or critical hazards.

**Mutagenicity:** No known significant effects or critical hazards.

**Reproductive toxicity:** No known significant effects or critical hazards.

## 12 Ecological information

**Toxicity:** No data available.

**Persistence and degradability:** No data available.

**Bioaccumulative potential:** No data available.

### Mobility in soil

**Soil/water partition coefficient ( $K_{oc}$ ):** No data available.

**Other adverse effects:** No data available.

## 13 Disposal considerations

**Disposal methods:** The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in accordance to approved disposal techniques. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

**Contaminated packages:** Not determined or not applicable.

## 14 Transport information

**UNRTDG:** Not regulated as a dangerous good.

**IATA-DGR:** Not regulated as a dangerous good.

**IMDG-Code:** Not regulated as a dangerous good.

**Environmental hazards:** No

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** No data available.

**Domestic regulation 49 CFR:** Not regulated as a dangerous good.

**Special precautions for user:** Not classified as dangerous in the meaning of transport regulations.

## 15 Regulatory information

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## 15.1 Safety, health and environmental regulations/legislation for the mixture

### EPCRA - Emergency Planning and Community Right-to-Know

The toxicological properties of this material have not been investigated. For research and development purposes only.

**SARA 304:** Not applicable.

**SARA 311/312:** Not applicable.

**SARA 302:** Not applicable.

**SARA 313:** Not applicable.

**TSCA list:** Not applicable.

### US State Regulations

**California Prop 65:** Not applicable.

**Relevant information regarding authorization:** Occupational Health and Safety Act 1993 Regulation for Hazardous Chemical Substances.

**Relevant information regarding restrictions:** None known.

**EU regulations:** Regulation EC 1272/2008 [EU-GHS/CLP].

**Other National regulations:** None

**Chemical Safety Assessment carried out?** No

## 16 Other Information

**Abbreviations and acronyms:** Not applicable.

**Relevant classification and H statements (number and full text):** Not applicable.

**Training instructions:** Not applicable.

**Further information:** This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

**Notice to readers:** Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the

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product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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## 1 Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier:

**Trade name:** Hybridization Buffer (2x)

### 1.2 Details of the supplier of the safety data sheet:

Nonacus Ltd  
Unit 5 Quinton Business Park  
11 Ridgeway  
Quinton  
Birmingham  
B32 1AF

### 1.3 Emergency telephone number:

Lee Silcock +44(0)7793316851  
Chris Sale +44(0)7949922629

## 2 Hazards identification

### 2.1 Classification of the substance or mixture:

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

ACUTE TOXICITY (oral) - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1

AQUATIC HAZARD (LONG-TERM) - Category 2

### 2.2 Label elements:



**Signal words:** Danger

**Hazard statements:**

- H300 – fatal if swallowed.
- H315 – Causes skin irritation.
- H370 – Causes damage to organs.
- H411 – Toxic to aquatic life with long lasting effects.

### Precautionary statements

**Prevention:** P260 – Do not breathe vapor.

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P264 – Wash contaminated skin thoroughly after handling.

P270 – Do not eat, drink or smoke when using this product.

P273 – Avoid release to the environment.

P280 – Wear protective gloves/ protective clothing/ eye protection/ face protection.

## Response:

P301+P310 IF SWALLOWED: Immediately call a poison centre/ doctor.

P302 + P352 IF on skin: Wash with plenty of water.

P308 + P311 – IF exposed: Call a POISON CENTER or doctor.

P321 – Specific treatment (see medical advice on this label)

P330 – Rinse mouth.

P332 + P313 – IF skin irritation occurs Get medical advice/ attention.

P362 + P364 – Take off contaminated clothing and wash it before reuse.

P391 – Collect spillage.

## Storage:

P405 – Store locked up

## Disposal:

P501 – Dispose of contents and container in accordance with all local, regional, national, and international regulations.

**Hazards not otherwise classified:** This product does not contain any substances classified as PBT or vPvB.

-----

## 3 Composition/information on ingredients

### 3.1 Substances

**Trade name:** Hybridization Buffer (2x)

### 3.2 Mixtures

Tetramethylammonium chloride 10 – 30 %

CAS number: 75-57-0

Acute Tox. 2 – H300

Acute Tox. 3 – H311

Skin Irrit. 2 – H315

STOT SE 1 – H370

Aquatic Chronic 2 – H411

The full text for all hazard statements is displayed in Section 16.

**Composition comments:** The exact percentage is withheld as a trade secret in accordance with 29 CFR 1910.1200.

## 4 First Aid Measures

### 4.1 Description of first aid measures

**Eye contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention. If necessary, call a poison center or physician.

**Inhalation:** Move to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Skin contact:** Flush contaminated skin with plenty of water. Continue to rinse for at least 20 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion:** Get medical attention immediately. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### 4.2 Most important symptoms and effects, both acute and delayed

**General information:** The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**Following inhalation:** A single exposure may cause the following adverse effects: Pain or irritation. Intoxication. Narcotic effect. Muscle weakness. Nausea, vomiting.

**Following ingestion:** A single exposure may cause the following adverse effects: Unconsciousness, possibly death. May cause stomach pain or vomiting. May cause severe internal injury. Small amounts may cause serious damage.

**Following skin contact:** Redness. Irritating to skin.

**Following eye contact:** No specific symptoms known. May be slightly irritating to eyes.

### 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to physician:** In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments:** No specific treatment.

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**Protection of first-aiders:** No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

---

## 5 Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media:** The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

### 5.2 Advice for fire-fighters

**Specific hazards arising from the chemical:** In a fire or if heated, a pressure increase will occur and the container may burst. This product is toxic.

**Hazardous thermal decomposition products:** Thermal decomposition products may include the following materials:

Very toxic or corrosive gases or vapours.

**Special protective actions for fire-fighters:** Avoid breathing fire gases or vapors. Evacuate area. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk.

Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

**Special protective equipment for firefighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode. Standard firefighter's clothing including helmets, protective boots and gloves will provide basic level of protection for chemical incidents.

---

## 6 Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material. Avoid inhalation of vapours and spray/mists. Use suitable respiratory protection if ventilation is inadequate.

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## 6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

## 6.3 Methods and material for containment and cleaning up

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

In case of a minor spillage: Wear protective clothing as described in Section 8. Stop leak if without risk. Move containers from spill area. Provide adequate ventilation. Absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

## 6.4 Reference to other sections

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.

## 7 Handling and storage

### 7.1 Precautions for safe handling

**Advice on safe handling:** Put on appropriate personal protective equipment (see Section 8).

Smoking, eating, and drinking should be prohibited in the areas where the material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. This product is toxic. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Wash promptly if skin becomes contaminated. Remove contaminated clothing and protective equipment before entering eating areas.

**Advice on protection against fire and explosion:** Normal measures for preventative fire protection.

### 7.2 Conditions for safe storage, including any incompatibilities

**Technical measures and storage conditions:** Store in accordance with local regulations. Store at temperature defined on the label. Store away from incompatible materials (see Section 10), and food and drink.

**Requirements for storage rooms and vessels:** Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area. Store locked up.

Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

**Further information on storage conditions:** See Section 10 for incompatible materials before handling or use.

## 8 Exposure controls/personal protection

### 8.1 Control parameters

Tetramethylammonium chloride (CAS: 75-57-0)

Exposure limits: None

### 8.2 Exposure controls

#### Engineering controls:

Provide adequate ventilation and local exhaust ventilation. Ensure the ventilation system is regularly maintained and tested. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### Individual protection measures:

Wash hands thoroughly after handling chemical products, before eating, smoking and using lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothes before reusing. Ensure eyewash stations and safety showers are close to the workstation location.

**Eye/face protection:** Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree or protection: safety glasses with side-shields.

**Hand protection:** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Frequent changes are recommended.

**Body protection:** Personal protective equipment for the body, appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection:** If ventilation is inadequate suitable respiratory prevention must be worn. Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

**Environmental exposure controls:** Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental

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protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical State:	Liquid.
Colour:	Clear.
Odour:	None.
Odour threshold:	Not available.
pH:	Not available
Melting point/freezing point:	Not available.
Initial boiling point and boiling range:	Not available.
Flash Point:	Not available.
Evaporation rate:	Not available.
Flammability (solid, gas):	Not available.
Upper/lower flammability or explosive limits:	Not available.
Vapour pressure:	Not available.
Vapour density:	Not available.
Density (g/ml):	Not available.
Relative density:	Not available.
Solubility:	Not available
Solubility (Water):	Not available.
Partition coefficient: n-octanol/water:	Not applicable.
Auto-ignition temperature:	Not available.
Decomposition Temperature (°C):	Not available.
Viscosity:	Not available.
Flow time (ISO 2431):	Not available.
Particle characteristics	
Median particle size:	Not applicable

## 10 stability and reactivity

### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

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## 10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

## 10.4 Conditions to avoid

No specific data.

## 10.5 Incompatible materials

No specific material or group of materials is likely to react with the product to produce a hazardous situation.

## 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.

# 11 Toxicological Information

## 11.1 Information on toxicological effects

### Acute toxicity:

#### Hybridization Buffer (2x)

**Acute oral toxicity:** Acute Toxicity Category 2 – H300 Fatal if swallowed.

**ATE oral:** 18.66 mg/kg

**Acute dermal toxicity:** Based on available data the classification criteria are not met.

**ATE dermal:** 2,003.73 mg/kg

**Acute inhalation toxicity:** Based on available data the classification criteria are not met.

**Irritation/corrosion:** Irritating (Animal data).

**Sensitisation:** Based on available data the classification criteria are not met.

**Carcinogenicity:** Based on available data the classification criteria are not met.

**Reproductive toxicity:** Based on available data the classification criteria are not met.

**Teratogenicity:** Based on available data the classification criteria are not met.

### **Specific target organ toxicity (single exposure):**

Tetramethylammonium chloride.

Category 1, H370 Causes damage to organs.

Route of exposure: Oral

Target organs: Central nervous system.

**Specific target organ toxicity (repeated exposure):** Not classified as a specific target organ toxicant after repeated exposure.

**Aspiration hazard:** No data available.

## Information on the likely routes of exposure: Routes of entry anticipated: Oral, Dermal, Inhalation.

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## Potential acute health effects:

**Eye contact:** Not known.

**Inhalation:** A single exposure may cause the following adverse effects: Pain or irritation. Intoxication. Narcotic effect.

Muscle weakness. Nausea, vomiting.

**Skin contact:** Redness. Irritating to skin.

**Ingestion:** A single exposure may cause the following adverse effects: Unconsciousness, possibly death. May cause stomach pain or vomiting. May cause severe internal injury. Small amounts may cause serious damage.

## Delayed and immediate effects and also chronic effects from short and long term exposure:

### Short term exposure

**Potential immediate effects:** No known significant effects or critical hazards.

**Potential delayed effects:** No known significant effects or critical hazards.

### Long term exposure

**Potential immediate effects:** No known significant effects or critical hazards.

**Potential delayed effects:** No known significant effects or critical hazards.

### Potential chronic health effects

**General:** No known significant effects or critical hazards.

**Carcinogenicity:** No known significant effects or critical hazards.

**Mutagenicity:** No known significant effects or critical hazards.

**Reproductive toxicity:** No known significant effects or critical hazards.

## 12 Ecological information

### Toxicity:

Toxic to the aquatic life with long lasting effects.

**Persistence and degradability:** No data available.

**Bioaccumulative potential:** No data available.

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>):** Not available.

**Other adverse effects:** No known significant effects or critical hazards.

## 13 Disposal considerations

**Disposal methods:** The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable

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products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities and jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid disposal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## 14 Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
<b>UN-Number</b>	2810	2810	2810
<b>UN Proper shipping name:</b>	TOXIC LIQUID, ORGANIC, N.O.S.	TOXIC LIQUID, ORGANIC, N.O.S.	TOXIC LIQUID, ORGANIC, N.O.S.
<b>Transport hazard class:</b>	6.1	6.1	6.1
<b>Transport labels:</b>			
<b>Packaging group:</b>	III	III	III
<b>Environmentally Hazardous Substance:</b>	No	No	No
<b>Special precautions for user:</b>	F-A, S-A	F-A, S-A	F-A, S-A

## 15 Regulatory information

### 15.1 Safety, health and environmental regulations/legislation for the mixture

#### EPCRA - Emergency Planning and Community Right-to-Know

**SARA 304:** None of the ingredients are listed or exempt.

**SARA 311/312:** None of the ingredients are listed or exempt.

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**SARA 302:** None of the ingredients are listed or exempt.

**SARA 313:** None of the ingredients are listed or exempt.

**TSCA list:** None of the ingredients are listed or exempt.

## US State Regulations

**California Prop 65:** None of the ingredients are listed or exempt.

**Relevant information regarding restrictions:** None known.

**EU regulations:** Regulation EC 1272/2008 [EU-GHS/CLP].

**Other National regulations:** None

**Chemical Safety Assessment carried out?** No

## 16 Other Information

**Abbreviations and acronyms:** Not applicable.

### Relevant classification and H statements (number and full text):

H351 Suspected of causing cancer.

H360D May damage the unborn child.

**Training instructions:** Only trained personnel should use this material.

**Further information:** This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

**Notice to readers:** Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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## 1 Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier:

**Trade name:** Hybridization Enhancer

### 1.2 Details of the supplier of the safety data sheet:

Nonacus Ltd  
Unit 5 Quinton Business Park  
11 Ridgeway  
Quinton  
Birmingham  
B32 1AF

### 1.3 Emergency telephone number:

Lee Silcock +44(0)7793316851  
Chris Sale +44(0)7949922629

## 2 Hazards identification

### 2.1 Classification of the substance or mixture:

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Carcinogen – Category 2  
Reproductive toxicity – Category 1B

### 2.2 Label elements:



**Signal words:** Danger

**Hazard statements:** H351 – Suspected of causing cancer.  
H360D – May damage the unborn child.

#### Precautionary statements

**Prevention:** P201 – Obtain special instructions before use.  
P202 – Do not handle until all safety precautions have been read and understood.  
P280 – Wear protective gloves/ protective clothing/ eye protection/ face protection.

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**Response:**

P308 + P313 – IF exposed: Call a POISON CENTER or doctor.

**Storage:**

P405 – Store locked up

**Disposal:**

P501 – Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazards not otherwise classified:** This product does not contain any substances classified as PBT or vPvB.

-----

## 3 Composition/information on ingredients

### 3.1 Substances

**Trade name:** Hybridization Enhancer

### 3.2 Mixtures

**Product name:** Hybridization Enhancer

**Cas number:** 75-12-7

**Composition comments:** The exact percentage is withheld as a trade secret in accordance with 29 CFR 1910.1200.

-----

## 4 First Aid Measures

### 4.1 Description of first aid measures

**Eye contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if any discomfort continues.

**Inhalation:** Move to fresh air and keep at rest in a position comfortable for breathing. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if any discomfort continues.

**Skin contact:** Flush contaminated skin with plenty of water.

**Ingestion:** Rinse mouth thoroughly with water. Get medical advice/attention if feeling unwell. Do not induce vomiting unless under the direction of medical personnel.

### 4.2 Most important symptoms and effects, both acute and delayed

**General information:** The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**Following inhalation:** Prolonged or repeated exposure may cause the following adverse effects: Suspected of causing cancer.

**Following ingestion:** Prolonged or repeated exposure may cause the following adverse effects: Suspected of causing cancer.

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**Following skin contact:** Prolonged or repeated exposure may cause the following adverse effects: Suspected of causing cancer.

**Following eye contact:** No specific symptoms known. May be slightly irritating to eyes.

**Notes to physician:** Treat symptomatically.

**Specific treatments:** No specific treatment.

**Protection of first-aiders:** No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

---

## 5 Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media:** The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

### 5.2 Advice for fire-fighters

**Specific hazards arising from the chemical:** In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal decomposition products:** Thermal decomposition products may include the following materials:

Very toxic or corrosive gases or vapours.

**Special protective actions for fire-fighters:** Avoid breathing fire gases or vapors. Evacuate area. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to

flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

**Special protective equipment for firefighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode. Standard firefighter's clothing including helmets, protective boots and gloves will provide basic level of protection for chemical incidents.

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## 6 Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

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Wear protective clothing as described in Section 8. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material.

## 6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## 6.3 Methods and material for containment and cleaning up

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

In case of a minor spillage: Wear protective clothing as described in Section 8. Stop leak if without risk. Move containers from spill area. Clear up spills immediately and dispose of waste safely. Absorb spillage with dry inert material and dispose accordingly (see Section 13).

## 6.4 Reference to other sections

For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

## 7 Handling and storage

### 7.1 Precautions for safe handling

**Advice on safe handling:** Put on appropriate personal protective equipment (see Section 8).

Smoking, eating, and drinking should be prohibited in the areas where the material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Suspected of causing cancer. May damage the unborn child. Pregnant or breastfeeding women should not work with this product if there is any risk of exposure. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers. Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing reuse.

**Advice on protection against fire and explosion:** Normal measures for preventative fire protection.

### 7.2 Conditions for safe storage, including any incompatibilities

**Technical measures and storage conditions:** Store in accordance with local regulations. Store at temperature defined on the label. Store away from incompatible materials (see Section 10), and food and drink.

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**Requirements for storage rooms and vessels:** Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

**Further information on storage conditions:** See Section 10 for incompatible materials before handling or use.

## 8 Exposure controls/personal protection

### 8.1 Control parameters

Long-term exposure limit (8-hour TWA): ACGIH 10ppm 18 mg/m<sup>3</sup>

Sk

Sk – Danger of cutaneous absorption

ACGIH – American Conference of Governmental Industrial Hygienists.

### 8.2 Exposure controls

#### Engineering controls:

Provide adequate ventilation and local exhaust ventilation. Ensure the ventilation system is regularly maintained and tested. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Observe any occupational exposure limits for the product or ingredients.

#### Individual protection measures:

Wash hands thoroughly after handling chemical products, before eating, smoking and using lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothes before reusing. Ensure eyewash stations and safety showers are close to the workstation location.

**Eye/face protection:** Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree or protection: Tight-fitting safety glasses.

**Hand protection:** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Frequent changes are recommended.

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**Body protection:** Personal protective equipment for the body, appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection:** If ventilation is inadequate suitable respiratory prevention must be worn. Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

**Environmental exposure controls:** Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical State:	Liquid.
Colour:	Colourless to pale yellow.
Odour:	Ammonia.
Odour threshold:	Not available.
pH:	Not available
Melting point/freezing point:	Not available.
Initial boiling point and boiling range:	Not available.
Flash Point:	175°C/347°F
Evaporation rate:	Not available.
Flammability (solid, gas):	Not available.
Upper/lower flammability or explosive limits:	Not available.
Vapour pressure:	Not available.
Vapour density:	Not available.
Density (g/ml):	Not available.
Relative density:	Not available.
Solubility:	Not available
Solubility (Water):	Not available.
Partition coefficient: n-octanol/water:	Not available.
Auto-ignition temperature:	Not available.
Decomposition Temperature (°C):	Not available.
Viscosity:	Not available.
Flow time (ISO 2431):	Not available.

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Particle characteristics

Median particle size:

Not available.

## 10 stability and reactivity

### 10.1 Reactivity

See the other subsections of this section for further details.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

No potentially hazardous reactions known.

### 10.4 Conditions to avoid

No specific data.

### 10.5 Incompatible materials

No specific material or group of materials is likely to react with the product to produce a hazardous situation.

### 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

## 11 Toxicological Information

### 11.1 Information on toxicological effects

#### Acute toxicity:

**Acute toxicity oral LD50 Rat:** 5,325 mg/kg

**Acute toxicity dermal LD50 Rabbit:** 17,000 mg/kg

**Acute toxicity inhalation LC50 Rat:** 21 mg/L

**Irritation/corrosion:** Based on available data the classification criteria are not met.

**Sensitisation:** Based on available data the classification criteria are not met.

**Carcinogenicity:** Suspected of causing cancer.

**IARC carcinogenicity:** None of the ingredients are listed or exempt.

**Reproductive toxicity:** May damage the unborn child.

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**Specific target organ toxicity (single exposure):** Not classified as a specific target organ toxicant after a single exposure.

**Specific target organ toxicity (repeated exposure):** Not classified as a specific target organ toxicant after repeated exposure.

**Target organs:** Blood

**Aspiration hazard:** No data available.

**Information on the likely routes of exposure:** Routes of entry anticipated: Ingestion, Inhalation, Skin and/or eye contact.

### Potential acute health effects:

**General information:** Avoid contact during pregnancy/while nursing. May cause cancer after repeated exposure. Risk of cancer depends on duration and level of exposure. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**Eye contact:** Not known.

**Inhalation:** Not known.

**Skin contact:** Not known.

**Ingestion:** Not known.

**Target organs:** Not known.

## 12 Ecological information

### Toxicity:

Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

**Persistence and degradability:** No data available.

**Bioaccumulative potential:** No data available.

### Mobility in soil

**Soil/water partition coefficient ( $K_{oc}$ ):** Not available.

**Other adverse effects:** No known significant effects or critical hazards.

## 13 Disposal considerations

**Disposal methods:** The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities and jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may

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retain some product residues. Avoid disposal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## 14 Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
<b>UN-Number</b>	Not applicable	Not applicable	Not applicable
<b>UN Proper shipping name:</b>	Not applicable	Not applicable	Not applicable
<b>Transport hazard class:</b>	Not applicable	Not applicable	Not applicable
<b>Transport labels:</b>	No transport warning sign required.	No transport warning sign required.	No transport warning sign required.
<b>Packaging group:</b>	Not applicable	Not applicable	Not applicable
<b>Environmentally Hazardous Substance:</b>	Not applicable	Not applicable	Not applicable
<b>Special precautions for user:</b>	Not applicable	Not applicable	Not applicable

## 15 Regulatory information

### 15.1 Safety, health and environmental regulations/legislation for the mixture

#### EPCRA - Emergency Planning and Community Right-to-Know

**SARA 304:** This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312:** None of the ingredients are listed or exempt.

**SARA 302:** None of the ingredients are listed or exempt.

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Nonacus Cell3 Target v2 MSDS - Version: 1.1, Index: MSDS003, Printed: 02-Aug-2024 07:43 Unique Reference: 1572-121868547. Due for review on: 24-Nov-2024

Author(s): Agata Stodolna, Kim Piechocki

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**SARA 313:** None of the ingredients are listed or exempt.

**TSCA list:** None of the ingredients are listed or exempt.

## US State Regulations

**California Prop 65:** None of the ingredients are listed or exempt.

**Relevant information regarding restrictions:** None known.

**EU regulations:** Regulation EC 1272/2008 [EU-GHS/CLP].

**Other National regulations:** None

**Chemical Safety Assessment carried out?** No

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## 16 Other Information

### Abbreviations and acronyms:

EHS – Extremely Hazardous Substance

RQ – Reportable Quantities

### Relevant classification and H statements (number and full text):

H351 Suspected of causing cancer.

H360D May damage the unborn child.

**Training instructions:** Only trained personnel should use this material.

**Further information:** This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

**Notice to readers:** Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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## 1 Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier:

**Trade name:** Stringent Wash Buffer (10x)

### 1.2 Details of the supplier of the safety data sheet:

Nonacus Ltd  
Unit 5 Quinton Business Park  
11 Ridgeway  
Quinton  
Birmingham  
B32 1AF

### 1.3 Emergency telephone number:

Lee Silcock +44(0)7793316851  
Chris Sale +44(0)7949922629

## 2 Hazards identification

### 2.1 Classification of the substance or mixture:

Not a hazardous substance or mixture.

### 2.2 Label elements:

Not a hazardous substance or mixture.

## 3 Composition/information on ingredients

### 3.1 Substances

**Trade name:** Stringent Wash Buffer (10x)

### 3.2 Mixtures

Ethylenediaminetetraacetic acid disodium salt 1-5 %

CAS number: 6381-92-6

Classification: Acute Toxicity - Category 4, H302

Skin irritation - Category 2, H315

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Eye irritation – Category 2A, H319

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## 4 First Aid Measures

### 4.1 Description of first aid measures

**Eye contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any eye contact lenses. Get medical attention if irritation occurs.

**Inhalation:** No specific recommendations. If throat irritation or coughing persists, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if any discomfort continues.

**Skin contact:** No specific recommendations. Flush contaminated skin with plenty of water. Get medical attention if symptoms occur.

**Ingestion:** No specific recommendations. If throat irritation or coughing persists, proceed as follows. Rinse mouth. Get medical attention if any discomfort continues.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential acute health effects

**Eye contact:** No known significant effects or critical hazards. May be slightly irritating to eyes.

**Inhalation:** No known significant effects or critical hazards. Spray/mists may cause respiratory tract irritation.

**Skin contact:** No known significant effects or critical hazards. May cause discomfort.

**Ingestion:** No known significant effects or critical hazards. May cause discomfort if swallowed.

#### Over-exposure signs/symptoms

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin contact:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

### 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to physician:** Treat symptomatically.

**Specific treatments:** No specific treatment.

**Protection of first-aiders:** Use protective equipment appropriate for surrounding materials.

---

## 5 Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media:** The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

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Author(s): Agata Stodolna, Kim Piechocki

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**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

## 5.2 Advice for fire-fighters

**Specific hazards arising from the chemical:** In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal decomposition products:** Decomposition products may include the following materials: Harmful gases or vapours.

**Special protective actions for fire-fighters:** Avoid breathing fire gases or vapors. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapors and protect men stopping the leak. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

**Special protective equipment for firefighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.

## 6 Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

No specific recommendations. For personal protection, see Section 8.

### 6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### 6.3 Methods and material for containment and cleaning up

Reuse or recycle products wherever possible. Absorb spillage to prevent material damage. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of contents/container in accordance with national regulations.

### 6.4 Reference to other sections

For personal protection, see Section 8. For waste disposal, see Section 13.

## 7 Handling and storage

### 7.1 Precautions for safe handling

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**Advice on safe handling:** Put on appropriate personal protective equipment (see Section 8).

Smoking, eating, and drinking should be prohibited in the application area. Handle all packages and containers carefully to minimise spills. Avoid formation of mists.

**Advice on protection against fire and explosion:** Normal measures for preventative fire protection.

## 7.2 Conditions for safe storage, including any incompatibilities

**Technical measures and storage conditions:** Store in accordance with local regulations. Store at temperature defined on the label. Store away from incompatible materials, and food and drink.

**Requirements for storage rooms and vessels:** Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area.

Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

**Further information on storage conditions:** See Section 10 for incompatible materials before handling or use.

## 8 Exposure controls/personal protection

### 8.1 Control parameters

No exposure limits known for ingredient(s).

### 8.2 Exposure controls

#### Engineering controls:

No specific ventilation requirements.

#### Individual protection measures:

**Eye/face protection:** No specific eye protection required during normal use. Larger spillages: Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.

**Hand protection:** No specific hand protection recommended. Large spillages: Wear protective gloves.

**Body protection:** Wear appropriate clothing to prevent any possibility of skin contact.

**Respiratory protection:** No specific recommendations. Provide adequate ventilation. Large spillages: if ventilation is inadequate, suitable respiratory protection must be worn.

**Environmental exposure controls:** Not regarded as dangerous for the environment.

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## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical State:	Liquid.
Colour:	Clear.
Odour:	Odourless.
Odour threshold:	Not available.
pH:	Not available.
Melting point/freezing point:	Not available.
Initial boiling point and boiling range:	Not available.
Flash Point:	Not available.
Evaporation rate:	Not available.
Flammability (solid, gas):	Not available.
Upper/lower flammability or explosive limits:	Not available.
Vapour pressure:	Not available.
Vapour density:	Not available.
Density (g/ml):	Not available.
Relative density:	Not available.
Solubility:	Not available
Solubility (Water):	Not available.
Partition coefficient: n-octanol/water:	Not applicable.
Auto-ignition temperature:	Not available.
Decomposition Temperature (°C):	Not available.
Viscosity:	Not available.
Flow time (ISO 2431):	Not available.
Particle characteristics	
Median particle size:	Not applicable

## 10 stability and reactivity

### 10.1 Reactivity

See the other subsections of this section for further details.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

No potentially hazardous reactions known.

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## 10.4 Conditions to avoid

There are no known conditions that are likely to result in a hazardous situation.

## 10.5 Incompatible materials

No specific material or group of materials is likely to react with the product to produce a hazardous situation.

## 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

# 11 Toxicological Information

## 11.1 Information on toxicological effects

### Acute toxicity:

Not regarded as health hazard under current legislation.

**ATE oral:** 24,509.8 mg/kg

**Acute dermal toxicity:** Based on available data the classification criteria are not met.

**Acute inhalation toxicity:** Based on available data the classification criteria are not met.

**Irritation/corrosion:** Based on available data the classification criteria are not met.

**Sensitisation:** No data available

**Carcinogenicity:** Based on available data the classification criteria are not met.

**Reproductive toxicity:** Based on available data the classification criteria are not met.

**Teratogenicity:** Based on available data the classification criteria are not met.

**Specific target organ toxicity (single exposure):** Not classified as a specific target organ toxicant after single exposure.

**Specific target organ toxicity (repeated exposure):** Not classified as a specific target organ toxicant after repeated exposure.

**Aspiration hazard:** Based on available data the classification criteria are not met.

**Information on the likely routes of exposure:** Routes of entry anticipated: Ingestion, Inhalation, Skin and/or eye contact.

### Potential acute health effects:

**Eye contact:** No specific symptoms known. May be slightly irritating to eyes.

**Inhalation:** No specific symptoms known. Spray/mists may cause respiratory tract irritation.

**Skin inhalation:** No specific symptoms known. May cause discomfort.

**Ingestion:** No specific symptoms known. May cause discomfort if swallowed.

### Symptoms related to the physical, chemical and toxicological characteristics:

**Eye contact:** No known significant effects or critical hazards.

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**Inhalation:** No known significant effects or critical hazards.

**Skin inhalation:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

## Delayed and immediate effects and also chronic effects from short and long term exposure:

### Short term exposure

**Potential immediate effects:** No known significant effects or critical hazards.

**Potential delayed effects:** No known significant effects or critical hazards.

### Long term exposure

**Potential immediate effects:** No known significant effects or critical hazards.

**Potential delayed effects:** No known significant effects or critical hazards.

### Potential chronic health effects

**General:** No known significant effects or critical hazards.

**Carcinogenicity:** No known significant effects or critical hazards.

**Mutagenicity:** No known significant effects or critical hazards.

**Reproductive toxicity:** No known significant effects or critical hazards.

## 12 Ecological information

**Toxicity:** Not regarded as dangerous for the environment.

**Persistence and degradability:** No data available.

**Bioaccumulative potential:** No data available.

### Mobility in soil

**Soil/water partition coefficient ( $K_{oc}$ ):** Not available.

**Other adverse effects:** No known significant effects or critical hazards.

## 13 Disposal considerations

**Disposal methods:** The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities and jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid disposal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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## 14 Transport information

**UNRTDG:** Not regulated as a dangerous good.

**IATA-DGR:** Not regulated as a dangerous good.

**IMDG-Code:** Not regulated as a dangerous good.

**Environmental hazards:** No

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** No data available.

**Domestic regulation 49 CFR:** Not regulated as a dangerous good.

**Special precautions for user:** Not classified as dangerous in the meaning of transport regulations.

## 15 Regulatory information

### 15.1 Safety, health and environmental regulations/legislation for the mixture

#### EPCRA - Emergency Planning and Community Right-to-Know

**SARA 304:** This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312:** None of the ingredients are listed or exempt.

**SARA 302:** None of the ingredients are listed or exempt.

**SARA 313:** None of the ingredients are listed or exempt.

**TSCA list:** None of the ingredients are listed or exempt.

#### US State Regulations

**California Prop 65:** None of the ingredients are listed or exempt.

**Relevant information regarding restrictions:** None known.

**EU regulations:** Regulation EC 1272/2008 [EU-GHS/CLP].

**Other National regulations:** None

**Chemical Safety Assessment carried out?** No

## 16 Other Information

### Abbreviations and acronyms:

EHS – Extremely Hazardous Substance

RQ – Reportable Quantities

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Author(s): Agata Stodolna, Kim Piechocki

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## Relevant classification and H statements (number and full text):

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

**Training instructions:** Only trained personnel should use this material.

**Further information:** This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

**Notice to readers:** Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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## 1 Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier:

**Trade name:** Wash Buffer 1 (10x)

### 1.2 Details of the supplier of the safety data sheet:

Nonacus Ltd  
Unit 5 Quinton Business Park  
11 Ridgeway  
Quinton  
Birmingham  
B32 1AF

### 1.3 Emergency telephone number:

Lee Silcock +44(0)7793316851  
Chris Sale +44(0)7949922629

## 2 Hazards identification

### 2.1 Classification of the substance or mixture:

Serious eye damage – Category 1  
Aquatic Acute toxicity – Category 3

### 2.2 Label elements:



**Signal word:** Danger

**Hazard statements:** H318 Causes serious eye damage.  
H402 Harmful to aquatic life.

**Precautionary statements:** P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P305+P351+P338 if in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
P310 Immediately call a poison centre/ doctor.  
P501 Dispose of contents/ container in accordance with national regulations.

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**Contains:** Sodium dodecyl sulfate

## 3 Composition/information on ingredients

### 3.1 Substances

**Trade name:** Wash Buffer 1 (10x)

### 3.2 Mixtures

Sodium dodecyl sulfate 1-5 %

CAS number: 151-21-3

**Classification:**

Flammable Solid – Category 2, H228

Acute Toxicity – Category 4, H302

Acute Toxicity – Category 4, H332

Skin Irritation – Category 2, H315

Eye Damage – Category 1, H318

Aquatic Acute Toxicity – Category 2, H401

Aquatic Chronic Toxicity – Category 3, H412

## 4 First Aid Measures

### 4.1 Description of first aid measures

**Eye contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Do not rub eye. Check for and remove any eye contact lenses. Continue to rinse for at least 15 minutes and get medical attention.

**Inhalation:** Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms are severe or persist.

**Skin contact:** Flush contaminated skin with plenty of water.

**Ingestion:** Rinse mouth thoroughly with water. Get medical advice/attention if feeling unwell. Do not induce vomiting unless under the direction of medical personnel.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential acute health effects

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**Eye contact:** Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness.

**Inhalation:** No known significant effects or critical hazards.

**Skin contact:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

## 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to physician:** Treat symptomatically.

**Specific treatments:** No specific treatment.

**Protection of first-aiders:** Use protective equipment appropriate for surrounding materials.

## 5 Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media:** The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

### 5.2 Advice for fire-fighters

**Specific hazards arising from the chemical:** In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal decomposition products:** Decomposition products may include the following materials: Harmful gases or vapours.

**Special protective actions for fire-fighters:** Avoid breathing fire gases or vapors. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapors and protect men stopping the leak. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

**Special protective equipment for firefighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.

## 6 Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing as describes in Section 8. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material.

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## 6.2 Environmental precautions

Avoid discharge to the aquatic environment.

## 6.3 Methods and material for containment and cleaning up

Wear protective clothing as described in Section 8. Clear up spills immediately and dispose of waste safely. Absorb spillage with non-combustible, absorbent material. The contaminated absorbent may pose the same hazard as the spilled material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage.

## 6.4 Reference to other sections

For personal protection, see Section 8. For waste disposal, see Section 13.

## 7 Handling and storage

### 7.1 Precautions for safe handling

**Advice on safe handling:** Put on appropriate personal protective equipment (see Section 8).

Smoking, eating, and drinking should be prohibited in the application area. Handle all packages and containers carefully to minimise spills. Avoid formation of mists. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

**Advice on protection against fire and explosion:** Normal measures for preventative fire protection.

### 7.2 Conditions for safe storage, including any incompatibilities

**Technical measures and storage conditions:** Store in accordance with local regulations. Store at temperature defined on the label. Store away from incompatible materials, and food and drink.

**Requirements for storage rooms and vessels:** Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area.

Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

**Further information on storage conditions:** See Section 10 for incompatible materials before handling or use.

## 8 Exposure controls/personal protection

### 8.1 Control parameters

No exposure limits known for ingredient(s).

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## 8.2 Exposure controls

### Engineering controls:

Provide adequate ventilation. Observe any occupational exposure limits for the product or ingredients.

### Individual protection measures:

**Eye/face protection:** Wear tight-fitting, chemical splash goggles or face shields. If inhalation hazards exist, a full-face respirator may be required instead.

**Hand protection:** Wear protective gloves. The most suitable gloves should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.

**Body protection:** Wear appropriate clothing to prevent repeated or prolonged skin contact.

**Respiratory protection:** Ensure all respiratory protective equipment is suitable for its intended use and is NIOSH approved. Check that the respirator fits tightly, and the filter is changed regularly. Gas and combination filter cartridges

should comply with OSHA 1910.134. Full face mask respirators with replaceable filter cartridges should comply with OSHA 1910.134. Half mask and quarter mask respirators with replaceable filter cartridges should comply with OSHA 1910.134.

**Environmental exposure controls:** Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical State:	Liquid.
Colour:	Clear.
Odour:	Odourless.
Odour threshold:	Not available.
pH:	Not available.
Melting point/freezing point:	Not available.
Initial boiling point and boiling range:	Not available.
Flash Point:	68.3°C/154.94°C
Evaporation rate:	Not available.
Flammability (solid, gas):	Not available.
Upper/lower flammability or explosive limits:	Not available.
Vapour pressure:	Not available.
Vapour density:	Not available.

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Density (g/ml):	Not available.
Relative density:	Not available.
Solubility:	Not available
Solubility (Water):	Not available.
Partition coefficient: n-octanol/water:	Not applicable.
Auto-ignition temperature:	Not available.
Decomposition Temperature (°C):	Not available.
Viscosity:	Not available.
Flow time (ISO 2431):	Not available.
Particle characteristics	
Median particle size:	Not applicable

## 10 stability and reactivity

### 10.1 Reactivity

See the other subsections of this section for further details.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

No potentially hazardous reactions known.

### 10.4 Conditions to avoid

There are no known conditions that are likely to results in hazardous situation.

### 10.5 Incompatible materials

No specific material or group of materials is likely to react with the product to produce a hazardous situation.

### 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

## 11 Toxicological Information

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## 11.1 Information on toxicological effects

### Acute toxicity:

Not regarded as health hazard under current legislation.

**ATE oral:** 16,666.67 mg/kg

**Acute dermal toxicity:** Based on available data the classification criteria are not met.

**ATE inhalation (dusts/mists):** 50 mg/L

**Irritation/corrosion:** Based on available data the classification criteria are not met.

**Sensitisation:** No data available

**Carcinogenicity:** Based on available data the classification criteria are not met.

**Reproductive toxicity:** Based on available data the classification criteria are not met.

**Teratogenicity:** Based on available data the classification criteria are not met.

**Serious eye damage/irritation:** H318 Causes serious eye damage.

**Specific target organ toxicity (single exposure):** Not classified as a specific target organ toxicant after single exposure.

**Target organs:** Respiratory system, lungs

**Specific target organ toxicity (repeated exposure):** Not classified as a specific target organ toxicant after repeated exposure.

**Aspiration hazard:** Based on available data the classification criteria are not met.

**Information on the likely routes of exposure:** Routes of entry anticipated: Ingestion, Inhalation, Skin and/or eye contact.

### Potential acute health effects:

**Eye contact:** Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness.

**Inhalation:** No specific symptoms known.

**Skin contact:** No specific symptoms known.

**Ingestion:** No specific symptoms known.

### Delayed and immediate effects and also chronic effects from short and long term exposure:

The severity of the symptoms described will vary dependent of the concentration and the length of exposure.

## 12 Ecological information

**Toxicity:** Harmful to the aquatic life, H402.

**Persistence and degradability:** No data available.

**Bioaccumulative potential:** No data available.

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>):** Not available.

**Other adverse effects:** No known significant effects or critical hazards.

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## 13 Disposal considerations

**Disposal methods:** The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities and jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues.

## 14 Transport information

**UNRTDG:** Not regulated as a dangerous good.

**IATA-DGR:** Not regulated as a dangerous good.

**IMDG-Code:** Not regulated as a dangerous good.

**Environmental hazards:** No

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** No data available.

**Domestic regulation 49 CFR:** Not regulated as a dangerous good.

**Special precautions for user:** Not classified as dangerous in the meaning of transport regulations.

## 15 Regulatory information

### 15.1 Safety, health and environmental regulations/legislation for the mixture

#### EPCRA - Emergency Planning and Community Right-to-Know

**SARA 304:** This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312:** None of the ingredients are listed or exempt.

**SARA 302:** None of the ingredients are listed or exempt.

**SARA 313:** None of the ingredients are listed or exempt.

**TSCA list:** None of the ingredients are listed or exempt.

#### US State Regulations

**California Prop 65:** None of the ingredients are listed or exempt.

**Relevant information regarding restrictions:** None known.

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**EU regulations:** Regulation EC 1272/2008 [EU-GHS/CLP].

**Other National regulations:** None

**Chemical Safety Assessment carried out?** No

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## 16 Other Information

### Abbreviations and acronyms:

EHS – Extremely Hazardous Substance

RQ – Reportable Quantities

### Relevant classification and H statements (number and full text):

H228 Flammable solid.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H401 Toxic to aquatic life.

H402 Harmful to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

**Training instructions:** Only trained personnel should use this material.

**Further information:** This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

**Notice to readers:** Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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## 1 Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier:

**Trade name:** Wash Buffer 2 (10x)

### 1.2 Details of the supplier of the safety data sheet:

Nonacus Ltd  
Unit 5 Quinton Business Park  
11 Ridgeway  
Quinton  
Birmingham  
B32 1AF

### 1.3 Emergency telephone number:

Lee Silcock +44(0)7793316851  
Chris Sale +44(0)7949922629

## 2 Hazards identification

### 2.1 Classification of the substance or mixture:

Not a hazardous substance or mixture.

### 2.2 Label elements:

Not a hazardous substance or mixture.

## 3 Composition/information on ingredients

### 3.1 Substances

**Trade name:** Wash Buffer 2 (10x)

### 3.2 Mixtures

The exact percentage is withheld as a trade secret in accordance with 29 CFR 1910.1200.

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## 4 First Aid Measures

### 4.1 Description of first aid measures

**Eye contact:** Remove any contact lenses and open eyelids wide apart. Rinse with water. Get medical attention if any discomfort continues.

**Inhalation:** No specific recommendations. If throat irritation or coughing persists, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie, or belt. Get medical attention if any discomfort continues.

**Skin contact:** No specific recommendations. Rinse with water. Get medical attention if any discomfort continues.

**Ingestion:** No specific recommendations. If throat irritation or coughing persists, proceed as follows. Rinse mouth. Get medical attention if any discomfort continues.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential acute health effects

**Eye contact:** No specific symptoms. May be slightly irritating to eyes.

**Inhalation:** No specific symptoms. Spray/mists may cause respiratory tract irritation.

**Skin contact:** No specific symptoms. May cause discomfort.

**Ingestion:** No specific symptoms. May cause discomfort if swallowed.

### 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to physician:** Treat symptomatically.

**Specific treatments:** No specific treatment.

**Protection of first-aiders:** Use protective equipment appropriate for surrounding materials.

## 5 Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media:** The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

### 5.2 Advice for fire-fighters

**Specific hazards arising from the chemical:** In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal decomposition products:** Decomposition products may include the following materials: Harmful gases or vapours.

**Special protective actions for fire-fighters:** Avoid breathing fire gases or vapors. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without

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risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapors and protect men stopping the leak. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

**Special protective equipment for firefighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.

## 6 Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

No specific recommendations. For personal protection, see Section 8.

### 6.2 Environmental precautions

Avoid discharge into drains or watercourses or onto the ground.

### 6.3 Methods and material for containment and cleaning up

Reuse or recycle products wherever possible. Absorb spillage to prevent material damage. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of contents/container in accordance with national regulations.

### 6.4 Reference to other sections

For personal protection, see Section 8. For waste disposal, see Section 13.

## 7 Handling and storage

### 7.1 Precautions for safe handling

**Advice on safe handling:** Put on appropriate personal protective equipment (see Section 8).

Smoking, eating, and drinking should be prohibited in the application area. Handle all packages and containers carefully to minimise spills. Avoid formation of mists.

**Advice on protection against fire and explosion:** Normal measures for preventative fire protection.

### 7.2 Conditions for safe storage, including any incompatibilities

**Technical measures and storage conditions:** Store in accordance with local regulations. Store at temperature defined on the label. Store away from incompatible materials, and food and drink.

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**Requirements for storage rooms and vessels:** Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area.

Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

**Further information on storage conditions:** See Section 10 for incompatible materials before handling or use.

## 8 Exposure controls/personal protection

### 8.1 Control parameters

No exposure limits known for ingredient(s).

### 8.2 Exposure controls

**Engineering controls:**

No specific ventilation requirements.

**Individual protection measures:**

**Eye/face protection:** Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.

**Hand protection:** Wear protective gloves.

**Body protection:** Wear appropriate clothing to prevent any possibility of skin contact.

**Respiratory protection:** Respiratory protection not required.

**Environmental exposure controls:** Not regarded as dangerous for the environment.

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical State:	Liquid.
Colour:	Clear.
Odour:	Odourless.
Odour threshold:	Not available.

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pH:	Not available.
Melting point/freezing point:	Not available.
Initial boiling point and boiling range:	Not available.
Flash Point:	Not available.
Evaporation rate:	Not available.
Flammability (solid, gas):	Not available.
Upper/lower flammability or explosive limits:	Not available.
Vapour pressure:	Not available.
Vapour density:	Not available.
Density (g/ml):	Not available.
Relative density:	Not available.
Solubility:	Not available
Solubility (Water):	Not available.
Partition coefficient: n-octanol/water:	Not applicable.
Auto-ignition temperature:	Not available.
Decomposition Temperature (°C):	Not available.
Viscosity:	Not available.
Flow time (ISO 2431):	Not available.
Particle characteristics	
Median particle size:	Not applicable

## 10 Stability and reactivity

### 10.1 Reactivity

See the other subsections of this section for further details.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

No potentially hazardous reactions known.

### 10.4 Conditions to avoid

There are no known conditions that are likely to results in hazardous situation.

### 10.5 Incompatible materials

No specific material or group of materials is likely to react with the product to produce a hazardous situation.

### 10.6 Hazardous decomposition products

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Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

## 11 Toxicological Information

### 11.1 Information on toxicological effects

**Acute toxicity:**

Not regarded as health hazard under current legislation.

**Acute oral toxicity:** Based on available data the classification criteria are not met.

**Acute dermal toxicity:** Based on available data the classification criteria are not met.

**Acute inhalation toxicity:** Based on available data the classification criteria are not met.

**Irritation/corrosion:** Based on available data the classification criteria are not met.

**Sensitisation:** Based on available data the classification criteria are not met.

**Carcinogenicity:** Based on available data the classification criteria are not met.

**Reproductive toxicity:** Based on available data the classification criteria are not met.

**Teratogenicity:** Based on available data the classification criteria are not met.

**Specific target organ toxicity (single exposure):** Not classified as a specific target organ toxicant after single exposure.

**Target organs:** Respiratory system, lungs.

**Specific target organ toxicity (repeated exposure):** Not classified as a specific target organ toxicant after repeated exposure.

**Aspiration hazard:** Based on available data the classification criteria are not met.

**Information on the likely routes of exposure:** Routes of entry anticipated: Ingestion, Inhalation, Skin and/or eye contact.

**Potential acute health effects:**

**Eye contact:** No specific symptoms. May be slightly irritating to eyes.

**Inhalation:** No specific symptoms. Spray/mists may cause respiratory tract irritation.

**Skin contact:** No specific symptoms. May cause discomfort.

**Ingestion:** No specific symptoms. May cause discomfort if swallowed.

**Delayed and immediate effects and also chronic effects from short and long term exposure:**

The severity of the symptoms described will vary dependent of the concentration and the length of exposure.

## 12 Ecological information

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**Toxicity:** Not regarded as dangerous for the environment.

**Persistence and degradability:** No data available.

**Bioaccumulative potential:** No data available.

## Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>):** Not available.

**Other adverse effects:** No known significant effects or critical hazards.

## 13 Disposal considerations

**Disposal methods:** The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities and jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way.

## 14 Transport information

**UNRTDG:** Not regulated as a dangerous good.

**IATA-DGR:** Not regulated as a dangerous good.

**IMDG-Code:** Not regulated as a dangerous good.

**Environmental hazards:** No

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** No data available.

**Domestic regulation 49 CFR:** Not regulated as a dangerous good.

**Special precautions for user:** Not classified as dangerous in the meaning of transport regulations.

## 15 Regulatory information

### 15.1 Safety, health and environmental regulations/legislation for the mixture

#### EPCRA - Emergency Planning and Community Right-to-Know

**SARA 304:** This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312:** None of the ingredients are listed or exempt.

**SARA 302:** None of the ingredients are listed or exempt.

**SARA 313:** None of the ingredients are listed or exempt.

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**TSCA list:** None of the ingredients are listed or exempt.

## US State Regulations

**California Prop 65:** None of the ingredients are listed or exempt.

**Relevant information regarding restrictions:** None known.

**EU regulations:** Regulation EC 1272/2008 [EU-GHS/CLP].

**Other National regulations:** None

**Chemical Safety Assessment carried out?** No

---

## 16 Other Information

### Abbreviations and acronyms:

EHS – Extremely Hazardous Substance

RQ – Reportable Quantities

**Relevant classification and H statements (number and full text):** Not applicable.

**Training instructions:** Only trained personnel should use this material.

**Further information:** This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

**Notice to readers:** Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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## 1 Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier:

**Trade name:** Wash Buffer 3 (10x)

### 1.2 Details of the supplier of the safety data sheet:

Nonacus Ltd  
Unit 5 Quinton Business Park  
11 Ridgeway  
Quinton  
Birmingham  
B32 1AF

### 1.3 Emergency telephone number:

Lee Silcock +44(0)7793316851  
Chris Sale +44(0)7949922629

## 2 Hazards identification

### 2.1 Classification of the substance or mixture:

Not a hazardous substance or mixture.

### 2.2 Label elements:

Not a hazardous substance or mixture.

## 3 Composition/information on ingredients

### 3.1 Substances

**Trade name:** Wash Buffer 3 (10x)

### 3.2 Mixtures

The exact percentage is withheld as a trade secret in accordance with 29 CFR 1910.1200.

## 4 First Aid Measures

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Authorised on: 24-Nov-2023. Authorised by: Minesh Solanki. Document Unique Reference: 1572-121868547. Due for review on: 24-Nov-2024

Author(s): Agata Stodolna, Kim Piechocki

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## 4.1 Description of first aid measures

**Eye contact:** Remove any contact lenses and open eyelids wide apart. Rinse with water. Get medical attention if any discomfort continues.

**Inhalation:** No specific recommendations. If throat irritation or coughing persists, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie, or belt. Get medical attention if any discomfort continues.

**Skin contact:** No specific recommendations. Rinse with water. Get medical attention if any discomfort continues.

**Ingestion:** No specific recommendations. If throat irritation or coughing persists, proceed as follows. Rinse mouth. Get medical attention if any discomfort continues.

## 4.2 Most important symptoms and effects, both acute and delayed

### Potential acute health effects

**Eye contact:** No specific symptoms. May be slightly irritating to eyes.

**Inhalation:** No specific symptoms. Spray/mists may cause respiratory tract irritation.

**Skin contact:** No specific symptoms. May cause discomfort.

**Ingestion:** No specific symptoms. May cause discomfort if swallowed.

## 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to physician:** Treat symptomatically.

**Specific treatments:** No specific treatment.

**Protection of first-aiders:** Use protective equipment appropriate for surrounding materials.

## 5 Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media:** The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

### 5.2 Advice for fire-fighters

**Specific hazards arising from the chemical:** In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal decomposition products:** Decomposition products may include the following materials: Harmful gases or vapours.

**Special protective actions for fire-fighters:** Avoid breathing fire gases or vapors. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without

risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapors and

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protect men stopping the leak. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

**Special protective equipment for firefighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.

## 6 Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

No specific recommendations. For personal protection, see Section 8.

### 6.2 Environmental precautions

Avoid discharge into drains or watercourses or onto the ground.

### 6.3 Methods and material for containment and cleaning up

Reuse or recycle products wherever possible. Absorb spillage to prevent material damage. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of contents/container in accordance with national regulations.

### 6.4 Reference to other sections

For personal protection, see Section 8. For waste disposal, see Section 13.

## 7 Handling and storage

### 7.1 Precautions for safe handling

**Advice on safe handling:** Put on appropriate personal protective equipment (see Section 8).

Smoking, eating, and drinking should be prohibited in the application area. Handle all packages and containers carefully to minimise spills. Avoid formation of mists.

**Advice on protection against fire and explosion:** Normal measures for preventative fire protection.

### 7.2 Conditions for safe storage, including any incompatibilities

**Technical measures and storage conditions:** Store in accordance with local regulations. Store at temperature defined on the label. Store away from incompatible materials, and food and drink.

**Requirements for storage rooms and vessels:** Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area.

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Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

**Further information on storage conditions:** See Section 10 for incompatible materials before handling or use.

## 8 Exposure controls/personal protection

### 8.1 Control parameters

No exposure limits known for ingredient(s).

### 8.2 Exposure controls

**Engineering controls:**

No specific ventilation requirements.

**Individual protection measures:**

**Eye/face protection:** Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.

**Hand protection:** Wear protective gloves.

**Body protection:** Wear appropriate clothing to prevent any possibility of skin contact.

**Respiratory protection:** Respiratory protection not required.

**Environmental exposure controls:** Not regarded as dangerous for the environment.

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical State:	Liquid.
Colour:	Clear.
Odour:	Odourless.
Odour threshold:	Not available.
pH:	Not available.
Melting point/freezing point:	Not available.

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Author(s): Agata Stodolna, Kim Piechocki

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Initial boiling point and boiling range:	Not available.
Flash Point:	Not available.
Evaporation rate:	Not available.
Flammability (solid, gas):	Not available.
Upper/lower flammability or explosive limits:	Not available.
Vapour pressure:	Not available.
Vapour density:	Not available.
Density (g/ml):	Not available.
Relative density:	Not available.
Solubility:	Not available
Solubility (Water):	Not available.
Partition coefficient: n-octanol/water:	Not applicable.
Auto-ignition temperature:	Not available.
Decomposition Temperature (°C):	Not available.
Viscosity:	Not available.
Flow time (ISO 2431):	Not available.
Particle characteristics	
Median particle size:	Not applicable

## 10 Stability and reactivity

### 10.1 Reactivity

See the other subsections of this section for further details.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

No potentially hazardous reactions known.

### 10.4 Conditions to avoid

There are no known conditions that are likely to results in hazardous situation.

### 10.5 Incompatible materials

No specific material or group of materials is likely to react with the product to produce a hazardous situation.

### 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

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## 11 Toxicological Information

### 11.1 Information on toxicological effects

**Acute toxicity:**

Not regarded as health hazard under current legislation.

**Acute oral toxicity:** Based on available data the classification criteria are not met.

**Acute dermal toxicity:** Based on available data the classification criteria are not met.

**Acute inhalation toxicity:** Based on available data the classification criteria are not met.

**Irritation/corrosion:** Based on available data the classification criteria are not met.

**Sensitisation:** Based on available data the classification criteria are not met.

**Carcinogenicity:** Based on available data the classification criteria are not met.

**Reproductive toxicity:** Based on available data the classification criteria are not met.

**Teratogenicity:** Based on available data the classification criteria are not met.

**Specific target organ toxicity (single exposure):** Not classified as a specific target organ toxicant after single exposure.

**Specific target organ toxicity (repeated exposure):** Not classified as a specific target organ toxicant after repeated exposure.

**Aspiration hazard:** Based on available data the classification criteria are not met.

**Information on the likely routes of exposure:** Routes of entry anticipated: Ingestion, Inhalation, Skin and/or eye contact.

**Potential acute health effects:**

**Eye contact:** No specific symptoms. May be slightly irritating to eyes.

**Inhalation:** No specific symptoms. Spray/mists may cause respiratory tract irritation.

**Skin contact:** No specific symptoms. May cause discomfort.

**Ingestion:** No specific symptoms. May cause discomfort if swallowed.

**Delayed and immediate effects and also chronic effects from short and long term exposure:**

The severity of the symptoms described will vary dependent of the concentration and the length of exposure.

## 12 Ecological information

**Toxicity:** Not regarded as dangerous for the environment.

**Persistence and degradability:** No data available.

**Bioaccumulative potential:** No data available.

**Mobility in soil**

**Soil/water partition coefficient (K<sub>oc</sub>):** Not available.

**Other adverse effects:** No known significant effects or critical hazards.

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Author(s): Agata Stodolna, Kim Piechocki

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## 13 Disposal considerations

**Disposal methods:** The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities and jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way.

## 14 Transport information

**UNRTDG:** Not regulated as a dangerous good.

**IATA-DGR:** Not regulated as a dangerous good.

**IMDG-Code:** Not regulated as a dangerous good.

**Environmental hazards:** No

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** No data available.

**Domestic regulation 49 CFR:** Not regulated as a dangerous good.

**Special precautions for user:** Not classified as dangerous in the meaning of transport regulations.

## 15 Regulatory information

### 15.1 Safety, health and environmental regulations/legislation for the mixture

#### EPCRA - Emergency Planning and Community Right-to-Know

**SARA 304:** This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312:** None of the ingredients are listed or exempt.

**SARA 302:** None of the ingredients are listed or exempt.

**SARA 313:** None of the ingredients are listed or exempt.

**TSCA list:** None of the ingredients are listed or exempt.

#### US State Regulations

**California Prop 65:** None of the ingredients are listed or exempt.

**Relevant information regarding restrictions:** None known.

**EU regulations:** Regulation EC 1272/2008 [EU-GHS/CLP].

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Author(s): Agata Stodolna, Kim Piechocki

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**Other National regulations:** None

**Chemical Safety Assessment carried out?** No

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## 16 Other Information

**Abbreviations and acronyms:**

EHS – Extremely Hazardous Substance

RQ – Reportable Quantities

**Relevant classification and H statements (number and full text):** Not applicable.

**Training instructions:** Only trained personnel should use this material.

**Further information:** This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

**Notice to readers:** Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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## 1 Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier:

**Trade name:** Bead Wash Buffer (2x)

### 1.2 Details of the supplier of the safety data sheet:

Nonacus Ltd  
Unit 5 Quinton Business Park  
11 Ridgeway  
Quinton  
Birmingham  
B32 1AF

### 1.3 Emergency telephone number:

Lee Silcock +44(0)7793316851  
Chris Sale +44(0)7949922629

## 2 Hazards identification

### 2.1 Classification of the substance or mixture:

Not a hazardous substance or mixture.

### 2.2 Label elements:

Not a hazardous substance or mixture.

## 3 Composition/information on ingredients

### 3.1 Substances

**Trade name:** Bead Wash Buffer (2x)

### 3.2 Mixtures

The exact percentage is withheld as a trade secret in accordance with 29 CFR 1910.1200.

## 4 First Aid Measures

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Author(s): Agata Stodolna, Kim Piechocki

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## 4.1 Description of first aid measures

**Eye contact:** Remove any contact lenses and open eyelids wide apart. Rinse with water. Get medical attention if any discomfort continues.

**Inhalation:** No specific recommendations. If throat irritation or coughing persists, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie, or belt. Get medical attention if any discomfort continues.

**Skin contact:** No specific recommendations. Rinse with water. Get medical attention if any discomfort continues.

**Ingestion:** No specific recommendations. If throat irritation or coughing persists, proceed as follows. Rinse mouth. Get medical attention if any discomfort continues.

## 4.2 Most important symptoms and effects, both acute and delayed

### Potential acute health effects

**Eye contact:** No specific symptoms. May be slightly irritating to eyes.

**Inhalation:** No specific symptoms. Spray/mists may cause respiratory tract irritation.

**Skin contact:** No specific symptoms. May cause discomfort.

**Ingestion:** No specific symptoms. May cause discomfort if swallowed.

## 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to physician:** Treat symptomatically.

**Specific treatments:** No specific treatment.

**Protection of first-aiders:** Use protective equipment appropriate for surrounding materials.

## 5 Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media:** The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

### 5.2 Advice for fire-fighters

**Specific hazards arising from the chemical:** In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal decomposition products:** Decomposition products may include the following materials: Harmful gases or vapours.

**Special protective actions for fire-fighters:** Avoid breathing fire gases or vapors. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without

risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapors and

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protect men stopping the leak. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

**Special protective equipment for firefighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.

## 6 Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

No specific recommendations. For personal protection, see Section 8.

### 6.2 Environmental precautions

Avoid discharge into drains or watercourses or onto the ground.

### 6.3 Methods and material for containment and cleaning up

Reuse or recycle products wherever possible. Absorb spillage to prevent material damage. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of contents/container in accordance with national regulations.

### 6.4 Reference to other sections

For personal protection, see Section 8. For waste disposal, see Section 13.

## 7 Handling and storage

### 7.1 Precautions for safe handling

**Advice on safe handling:** Put on appropriate personal protective equipment (see Section 8).

Smoking, eating, and drinking should be prohibited in the application area. Handle all packages and containers carefully to minimise spills. Avoid formation of mists.

**Advice on protection against fire and explosion:** Normal measures for preventative fire protection.

### 7.2 Conditions for safe storage, including any incompatibilities

**Technical measures and storage conditions:** Store in accordance with local regulations. Store at temperature defined on the label. Store away from incompatible materials, and food and drink.

**Requirements for storage rooms and vessels:** Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area.

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Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

**Further information on storage conditions:** See Section 10 for incompatible materials before handling or use.

## 8 Exposure controls/personal protection

### 8.1 Control parameters

No exposure limits known for ingredient(s).

### 8.2 Exposure controls

**Engineering controls:**

No specific ventilation requirements.

**Individual protection measures:**

**Eye/face protection:** Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.

**Hand protection:** Wear protective gloves.

**Body protection:** Wear appropriate clothing to prevent any possibility of skin contact.

**Respiratory protection:** Respiratory protection not required.

**Environmental exposure controls:** Not regarded as dangerous for the environment.

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical State:	Liquid.
Colour:	Clear.
Odour:	Odourless.
Odour threshold:	Not available.
pH:	Not available.
Melting point/freezing point:	Not available.
Initial boiling point and boiling range:	Not available.
Flash Point:	Not available.

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Evaporation rate:	Not available.
Flammability (solid, gas):	Not available.
Upper/lower flammability or explosive limits:	Not available.
Vapour pressure:	Not available.
Vapour density:	Not available.
Density (g/ml):	Not available.
Relative density:	Not available.
Solubility:	Not available
Solubility (Water):	Not available.
Partition coefficient: n-octanol/water:	Not applicable.
Auto-ignition temperature:	Not available.
Decomposition Temperature (°C):	Not available.
Viscosity:	Not available.
Flow time (ISO 2431):	Not available.
Particle characteristics	
Median particle size:	Not applicable

## 10 stability and reactivity

### 10.1 Reactivity

See the other subsections of this section for further details.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

No potentially hazardous reactions known.

### 10.4 Conditions to avoid

There are no known conditions that are likely to result in a hazardous situation.

### 10.5 Incompatible materials

No specific material or group of materials is likely to react with the product to produce a hazardous situation.

### 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

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## 11 Toxicological Information

### 11.1 Information on toxicological effects

**Acute toxicity:**

Not regarded as health hazard under current legislation.

**Acute oral toxicity:** Based on available data the classification criteria are not met.

**Acute dermal toxicity:** Based on available data the classification criteria are not met.

**Acute inhalation toxicity:** Based on available data the classification criteria are not met.

**Irritation/corrosion:** Based on available data the classification criteria are not met.

**Sensitisation:** Based on available data the classification criteria are not met.

**Carcinogenicity:** Based on available data the classification criteria are not met.

**Reproductive toxicity:** Based on available data the classification criteria are not met.

**Teratogenicity:** Based on available data the classification criteria are not met.

**Specific target organ toxicity (single exposure):** Not classified as a specific target organ toxicant after single exposure.

**Target organs:** Respiratory system, lungs

**Specific target organ toxicity (repeated exposure):** Not classified as a specific target organ toxicant after repeated exposure.

**Aspiration hazard:** Based on available data the classification criteria are not met.

**Information on the likely routes of exposure:** Routes of entry anticipated: Ingestion, Inhalation, Skin and/or eye contact.

**Potential acute health effects:**

**Eye contact:** No specific symptoms. May be slightly irritating to eyes.

**Inhalation:** No specific symptoms. Spray/mists may cause respiratory tract irritation.

**Skin contact:** No specific symptoms. May cause discomfort.

**Ingestion:** No specific symptoms. May cause discomfort if swallowed.

**Delayed and immediate effects and also chronic effects from short and long term exposure:**

The severity of the symptoms described will vary dependent of the concentration and the length of exposure.

## 12 Ecological information

**Toxicity:** Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

**Persistence and degradability:** No data available.

**Bioaccumulative potential:** No data available.

**Mobility in soil**

**Soil/water partition coefficient (K<sub>oc</sub>):** Not available

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Author(s): Agata Stodolna, Kim Piechocki

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**Other adverse effects:** No known significant effects or critical hazards.

## 13 Disposal considerations

**Disposal methods:** The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities and jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way.

## 14 Transport information

**UNRTDG:** Not regulated as a dangerous good.

**IATA-DGR:** Not regulated as a dangerous good.

**IMDG-Code:** Not regulated as a dangerous good.

**Environmental hazards:** No

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** No data available.

**Domestic regulation 49 CFR:** Not regulated as a dangerous good.

**Special precautions for user:** Not classified as dangerous in the meaning of transport regulations.

## 15 Regulatory information

### 15.1 Safety, health and environmental regulations/legislation for the mixture

#### EPCRA - Emergency Planning and Community Right-to-Know

**SARA 304:** This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312:** None of the ingredients are listed or exempt.

**SARA 302:** None of the ingredients are listed or exempt.

**SARA 313:** None of the ingredients are listed or exempt.

**TSCA list:** None of the ingredients are listed or exempt.

#### US State Regulations

**California Prop 65:** None of the ingredients are listed or exempt.

**Relevant information regarding restrictions:** None known.

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**EU regulations:** Regulation EC 1272/2008 [EU-GHS/CLP].

**Other National regulations:** None

**Chemical Safety Assessment carried out?** No

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## 16 Other Information

### Abbreviations and acronyms:

EHS – Extremely Hazardous Substance

RQ – Reportable Quantities

**Relevant classification and H statements (number and full text):** Not applicable.

**Training instructions:** Only trained personnel should use this material.

**Further information:** This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

**Notice to readers:** Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

# Appendix: Nonacus Cell3 Target v2 MSDS

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## Links

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Please note: links are only correct at time of printing

### Change Control links:

- **DC01: GALEAS Trademarking - Design change**

### Controlled Document links:

## Changes In This Version

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APPROVED CHANGE REQUESTS ===== Change requested by Minesh Solanki on 23-Nov-2023 The sub text under the the product code table needs to be updated as we are no longer supplying 192 reaction kits. Approved by Minesh Solanki on 24-Nov-2023 Approver Comments: Updates made to MSDS

## Document Revision History

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### **Superseded on 24-Nov-2023 12:38 by Minesh Solanki**

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Version 1.0 superseded by version 1.1

### **Document Published on 24-Nov-2023 12:38 by Minesh Solanki**

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The document was published and is ready to be used.

### **Authorised on 24-Nov-2023 12:38 by Minesh Solanki**

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Authorised version 1.1 - . The following users will be notified when a review is due for this document: Document was scheduled to be released on 2023-11-24 The document was originally due for review on 09-Aug-2024

### **Draft Created on 24-Nov-2023 12:35 by Minesh Solanki**

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Reason: Updates to sub text under product code table to remove reference to 192 kits.

### **Change Request Approved on 24-Nov-2023 12:35 by Minesh Solanki**

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Minesh Solanki approved change request: "Updates made to MSDS"

### **Change Requested on 23-Nov-2023 14:50 by Minesh Solanki**

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Minesh Solanki Requested Change: 'The sub text under the the product code table needs to be updated as we are no longer supplying 192 reaction kits. '

### **Authorisation Approved on 10-Aug-2023 17:03 by Karen Cook**

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The user Approved the authorisation request.

### **Document Published on 10-Aug-2023 17:03 by Karen Cook**

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The document was published and is ready to be used.

### **Authorised on 10-Aug-2023 17:03 by Karen Cook**

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Authorised version 1.0 - . The following users will be notified when a review is due for this document: Document was scheduled to be released on 2023-08-10

### **Authorisation Approved on 10-Aug-2023 14:13 by Minesh Solanki**

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The user Approved the authorisation request.

### **Set Pending Authorisation on 09-Aug-2023 14:14 by Agata Stodolna**

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# Appendix: Nonacus Cell3 Target v2 MSDS

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Document was set as Pending Authorisation and authorisation requests were sent to: Karen Cook Minesh Solanki

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**Authorisation requested on 09-Aug-2023 14:14 by Agata Stodolna**

Authorisation request sent to Karen Cook by Agata Stodolna on 09-Aug-2023 14:14.

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**Authorisation requested on 09-Aug-2023 14:14 by Agata Stodolna**

Authorisation request sent to Minesh Solanki by Agata Stodolna on 09-Aug-2023 14:14.

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**Reverted to Draft on 09-Aug-2023 12:07 by Minesh Solanki**

Document was reverted to draft. Reason to revert: "incorrect trademarking logo"

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**Authorisation Rejected on 09-Aug-2023 12:07 by Minesh Solanki**

Minesh Solanki rejected authorisation with the following comments: incorrect trademarking logo

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**Set Pending Authorisation on 24-Jul-2023 14:19 by Agata Stodolna**

Document was set as Pending Authorisation and authorisation requests were sent to: Minesh Solanki

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**Authorisation requested on 24-Jul-2023 14:19 by Agata Stodolna**

Authorisation request sent to Minesh Solanki by Agata Stodolna on 24-Jul-2023 14:19.

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**Creation on 24-Jul-2023 14:18 by Agata Stodolna**

New Document created

Nonacus Cell3 Target v2 MSDS - Version: 1.1. Index: MSDS003. Printed: 02-Aug-2024 07:43