









# Safety Data Sheet

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## 5 Firefighting measures

### 5.1 Extinguishing media

As appropriate for surrounding fire  
No unsuitable extinguishing media

### 5.2 Special hazards arising from the substance/mixture

May decompose in a fire, giving off toxic and irritant vapours

### 5.3 Advice for fire-fighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus

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## 6 Accidental release measures

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

Provide adequate ventilation. Wear suitable protective clothing, gloves and eye/face protection

### 6.2 Environmental precautions

Do not release large quantities into the surface water or into drains. Report discharge into watercourses to appropriate regulatory body

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

Absorb spillages using sand or other suitable absorbent material and transfer to a suitable container for disposal

### 6.4 Reference to other sections

See also sections 8 and 13

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## 7 Handling and storage

### 7.1 Precautions for safe handling

Wash thoroughly after handling

Do not eat, drink or smoke when using this product. Remove contaminated clothing and wash before reuse. Use with adequate ventilation

Wear protective gloves/clothing and eye/face protection

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## 7.2 Conditions for safe storage, including any incompatibilities

**Technical measures and storage conditions:** Store at room temperature

**Requirements for storage rooms and vessels:** Always store in original containers

**Further information on storage conditions:** Keep containers tightly closed. Do not store with strong oxidisers

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## 8 Exposure controls/personal protection

### 8.1 Control parameters

No workplace exposure limits

### 8.2 Exposure controls

#### 8.2.1 Engineering controls:

Ensure adequate ventilation, especially in confined areas.

#### 8.2.2 Personal protective equipment

Eyes: Wear appropriate eye protection with side protection (EN166)

Skin: Wear appropriate gloves (EN374) and appropriate protective clothing to prevent skin exposure. Always wear appropriate closed-toe footwear

A suitable respirator with filter type A (EN14387 or EN405) may be appropriate

#### 8.2.3 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:	Not known.
Odour:	Not known.
Odour threshold:	Not known.
pH:	Not known.
Melting point/freezing point:	Not known.
Initial boiling point and boiling range:	Not known.
Flash Point:	Not known.
Evaporation rate:	Not known.
Flammability (solid, gas):	Not known.
Upper/lower flammability or explosive limits:	Not known.
Vapour pressure:	Not known.
Vapour density:	Not known.
Density (g/ml):	Not known.
Relative density:	Not known.

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Solubility(ies):	
Solubility (Water):	Not known.
Solubility (Other):	Not known.
Partition coefficient: n-octanol/water:	Not known.
Auto-ignition temperature:	Not known.
Decomposition Temperature (°C):	Not known.
Viscosity:	Not known.
Explosive properties:	Not known.
Oxidising properties:	Not known.

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## 10 stability and reactivity

### 10.1 Reactivity

None anticipated

### 10.2 Chemical stability

Stable under normal conditions

### 10.3 Possibility of hazardous reactions

No hazardous reactions known if used for intended purpose

### 10.4 Conditions to avoid

None Anticipated

### 10.5 Incompatible materials

Not known

### 10.6 Hazardous decomposition products

No hazardous decomposition products known

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## 11 Toxicological Information

### 11.1 Information on toxicological effects

Acute toxicity – Ingestion:	Harmful if swallowed
Acute toxicity estimate (ATE)	1287.07
Acute toxicity – Skin Contact:	Not classified
Acute toxicity – Inhalation:	Not classified

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Acute toxicity estimate (ATE)	28.79
Skin corrosion/irritation:	Causes skin irritation
Serious eye damage/irritation:	Causes serious eye irritation
Skin sensitization data:	Not classified
Respiratory sensitization data:	Not classified
Germ cell mutagenicity:	There is no evidence of mutagenic potential.
Carcinogenicity:	No evidence of carcinogenicity.
Reproductive toxicity:	Not classified
Lactation:	Not classified
STOT - single exposure:	Not classified
STOT - repeated exposure:	Not classified
Aspiration hazard:	Not classified

## 12 Ecological information

### 12.1 Toxicity

Toxicity - Aquatic invertebrates:	Low toxicity to invertebrates.
Toxicity - Fish:	Low toxicity to fish.
Toxicity - Algae:	Low toxicity to algae.
Toxicity - Sediment Compartment:	Not classified.
Toxicity - Terrestrial Compartment:	Not classified.

**12.2 Persistence and degradability** Not known

**12.3 Bioaccumulative potential** Not known

**12.4 Mobility in soil** Not known

**12.5 Results of PBT and vPvB assessment** Not known

**12.6 Other adverse effects** Not known

## 13 Disposal considerations

### 13.1 Waste treatment method

Refer to manufacturer or supplier for information on recovery or recycling. Dispose of contents in accordance with local, state or national legislation. Send to a licensed recycler, reclaimer or incinerator. Dispose at suitable refuse site.

### 13.2 Additional information

Disposal should be in accordance with local, state or national legislation.



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## 14 Transport information

Not classified as hazardous for transport

## 15 Regulatory information

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

**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

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

H302: Harmful if swallowed.

H315: Causes skin irritation.

H319: Causes serious eye irritation

H332: Harmful if inhaled

### Training instructions:

### Further information:

### Notice to readers:

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references. The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered. For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

- EN 166 Personal eye-protection
- EN 340 Protective clothing
- EN 374 Protective gloves against chemicals and micro-organisms
- EN 13832 Footwear protecting against chemicals
- EN 133 Respiratory protective devices

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

### 1.1 Product identifier:

Trade name: Proteinase K (BXG\_GPK96)

**Application:** For research use only.

**Uses advised against:** No specific uses advised against are identified.

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

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

Registered No: 9590278

[Lee.silcock@nonacus.com](mailto:Lee.silcock@nonacus.com)

[Chris.sale@nonacus.com](mailto:Chris.sale@nonacus.com)

### 1.3 Emergency telephone numbers:

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:

GB CLP Regulation, UK SI 2019/720 and UK SI 2020/1567

Not classified as dangerous for supply/use.

Classification according to Regulation (EC) No 1272/2008

Skin irritation (Category 2), H315

Eye irritation (Category 2), H319

Respiratory sensitization (Category 1), H334

### 2.2 Label elements:

**Product Name:**

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Proteinase K

**Hazard pictogram(s):**



**Signal Word(s):**

Danger

**Hazard Statement(s):**

**H315** Causes skin irritation

**H317** May cause an allergic skin reaction

**H319** Causes serious eye irritation

**H334** May cause allergy or asthma symptoms or breathing difficulties if inhaled

**H335** May cause respiratory irritation

## 3 Composition/information on ingredients

### 3.1 Substances

1.CAS No 2.EC No 3.Index No 4.REACH No	%[weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	Nanoform Particle Characteristics
1. 39450-01-6 2. 254-457-8 3. 647-014-00-9 4. unknown	≤100%	<u>Proteinase</u> , <u>Tritirachium</u> <u>album</u> <u>serine</u>	Skin irritation (Category 2), H315 Skin sensitisation (Category 1) H317 Eye irritation (Category 2), H319 Respiratory sensitisation (Category 1), H334 STOT SE (Category 3), H335	Not applicable
<b>Legend:</b>	1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 3. Classification drawn from C&L			

### 3.2 Mixtures

Not applicable

## 4 First Aid Measures

### 4.1 Description of first aid measures

**If inhaled**

After inhalation: Move victim to fresh air and consult a physician if you feel unwell.

**In case of skin contact**

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Immediately remove contaminated clothing and clean before reuse. Wash exposed skin with water. If skin irritation occurs, seek medical advice.

**In case of eye contact**

Remove contact lenses if present and easy to do so. Rinse with plenty of water. If eye irritation persists, seek medical advice.

**If swallowed**

Immediately give water to the victim. Consult a physician. **DO NOT** give water if victim is unconscious.

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

May cause allergy or asthma symptoms or breathing difficulty. May cause contact dermatitis

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

Call a poison centre/doctor if you feel unwell. Treat symptomatically

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**5 Firefighting measures****5.1 Extinguishing media**

No incompatible extinguishing media.

**5.2 Special hazards arising from the substance or mixture**

Hazardous gases and vapours may arise from fire.

**5.3 Advice for fire-fighters**

Wear full protective clothing including self-contained breathing apparatus

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**6 Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Avoid inhalation of dusts or skin contact. Ensure adequate ventilation. Evacuate the danger area. Wear full PPE (including respiratory protection) during removal of spillages

**6.2 Environmental precautions**

Avoid into surface water or into drains. Report discharge into watercourses to appropriate regulatory body

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

Sweep up spillages and store in an appropriate container for disposal.

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## 6.4 Reference to other sections

See also sections 8 and 13

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## 7 Handling and storage

### 7.1 Precautions for safe handling

Avoid inhalation of substance, apply appropriate engineering controls. Immediately change contaminated clothing and wear appropriate PPE to protect skin and eyes. Wash hands after working with substance

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

**Technical measures and storage conditions:** Close lids tightly and store at room temperature

**Requirements for storage rooms and vessels:** Store at room temperature in original container

**Further information on storage conditions:** NOT APPLICABLE

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## 8 Exposure controls/personal protection

### 8.1 Control parameters

Substance does not have an occupational exposure limit value

### 8.2 Exposure controls

**Eyes:** Wear appropriate protective eyewear with side protection (EN166).

**Skin:** wear appropriate gloves and appropriate protective clothing to prevent skin exposure. Always wear appropriate closed-toe footwear

**Respiratory protection:** Where engineering controls are not fitted or are inadequate, wear suitable respiratory protective equipment. Use of a high efficiency filter (EN143) is recommended. PF200: 200 x protection factor

### 8.3 Environmental exposure controls

Avoid release to the environment

## 9 Physical and chemical properties

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## 9.1 Information on basic physical and chemical properties

Physical State:	Solid.
Colour:	White.
Odour:	Not known.
Odour threshold:	Not known.
pH:	Not known.
Melting point/freezing point:	Not known.
Initial boiling point and boiling range:	Not known.
Flash Point:	Not known.
Evaporation rate:	Not known.
Flammability (solid, gas):	Not known.
Upper/lower flammability or explosive limits:	Not known.
Vapour pressure:	Not known.
Vapour density:	Not known.
Density (g/ml):	Not known.
Relative density:	Not known.
Solubility(ies):	
Solubility (Water):	Not known.
Solubility (Other):	Not known.
Partition coefficient: n-octanol/water:	Not known.
Auto-ignition temperature:	Not known.
Decomposition Temperature (°C):	Not known.
Viscosity:	Not known.
Explosive properties:	Not known.
Oxidising properties:	Not known.

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## 10 Stability and reactivity

### 10.1 Reactivity

None anticipated

### 10.2 Chemical stability

Stable under normal conditions

### 10.3 Possibility of hazardous reactions

No hazardous reactions known when used for intended purpose

### 10.4 Conditions to avoid

None Anticipated

### 10.5 Incompatible materials

Not known

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## 10.6 Hazardous decomposition products

None known

## 11 Toxicological Information

### 11.1 Information on toxicological effects

Acute toxicity – Ingestion:	Not classified
Acute toxicity – Skin Contact:	Not classified
Acute toxicity – Inhalation:	Not classified
Skin corrosion/irritation:	Causes skin irritation
Serious eye damage/irritation:	Causes serious eye irritation
Skin sensitization data:	May cause allergic skin reaction
Respiratory sensitization data:	May cause allergy/asthma symptoms. May cause breathing difficulties if inhaled
Germ cell mutagenicity:	There is no evidence of mutagenic potential.
Carcinogenicity:	No evidence of carcinogenicity.
Reproductive toxicity:	Not classified
Lactation:	Not classified
STOT – single exposure:	May cause respiratory irritation
STOT – repeated exposure:	Not classified
Aspiration hazard:	Not classified

### 11.2 Additional Information

Asthma can result from prolonged or repeated exposure. May cause irregularities in the lung based on human evidence

## 12 Ecological information

### 12.1 Toxicity

Toxicity – Aquatic invertebrates:	Low toxicity to invertebrates.
Toxicity – Fish:	Low toxicity to fish.
Toxicity – Algae:	Low toxicity to algae.
Toxicity – Sediment Compartment:	Not classified.
Toxicity – Terrestrial Compartment:	Not classified.

### 12.2 Persistence and degradability

Not known

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## 12.3 Bioaccumulative potential

Not known

## 12.4 Mobility in soil

Not known

## 12.5 Results of PBT and vPvB assessment

Not known

## 12.6 Other adverse effects

Not known

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## 13 Disposal considerations

### 13.1 Waste treatment method

Refer to manufacturer or supplier for information on recovery or recycling. Dispose of contents in accordance with local, state or national legislation. Send to a licensed recycler, reclaimer or incinerator. Dispose at suitable refuse site.

### 13.2 Additional information

No special precautions are required for this product

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## 14 Transport information

Not classified as hazardous for transport

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## 15 Regulatory information

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

**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

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

**H315** Causes skin irritation.

**H317** May cause an allergic skin reaction

**H319** Causes serious eye irritation.

**H334** May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**H335** May cause respiratory irritation

### Training instructions:

Not required

### Further information:

Not applicable

### Notice to readers:

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references. The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered. For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

- EN 166 Personal eye-protection
- EN 340 Protective clothing
- EN 374 Protective gloves against chemicals and micro-organisms
- EN 13832 Footwear protecting against chemicals
- EN 133 Respiratory protective devices

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

### 1.1 Product identifier:

Trade name: gDNA Magnetic Beads (BXG\_GMB96)

**Application:** For research use only.

**Uses advised against:** No specific uses advised against are identified.

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

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

Registered No: 9590278

[Lee.silcock@nonacus.com](mailto:Lee.silcock@nonacus.com)

[Chris.sale@nonacus.com](mailto:Chris.sale@nonacus.com)

### 1.3 Emergency telephone numbers:

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:

GB CLP Regulation, UK SI 2019/720 and UK SI 2020/1567

Skin Irrit. 2 :Causes skin irritation. Eye Irrit. 2 :Causes serious eye irritation. STOT SE 3 :May cause respiratory irritation.

### 2.2 Label elements:

**Product Name:**

gDNA Magnetic Beads

**Hazard pictogram(s):**

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**Signal Word(s):**

Warning

**Hazard Statement(s):**

**H315** Causes skin irritation

**H319** Causes serious eye irritation

## 3 Composition/information on ingredients

### 3.1 Substances

See section 3.2

### 3.2 Mixtures

1.CAS No 2.EC No 3.Index No 4.REACH No	%[weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	Nanoform Particle Characteristics
1. 1317-61-9-6 2. 215-277-5 3. unknown 4. unknown	≤5%	<u>Triiron tetraoxide</u>	H251 Self heating: may catch fire	Not applicable
1. 79-10-7 2. 201-177-9 3. unknown 4. unknown	<5%	<u>acrylic acidprop-2-enoic acid</u>	H226 Flammable liquid H302 Harmful if swallowed H312 Harmful in contact with skin H314 Causes severe skin burns and eye damage H332 Harmful if inhaled H400 Very toxic to aquatic life	Not applicable
<b>Legend:</b>	1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 3. Classification drawn from C&L			

## 4 First Aid Measures

### 4.1 Description of first aid measures

**If inhaled**

After inhalation: Move victim to fresh air and consult a physician.

**In case of skin contact**

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Immediately remove contaminated clothing and wash off exposed skin with water.

#### **In case of eye contact**

Remove contact lenses, rinse with plenty of water. Consult an ophthalmologist if symptoms persist.

#### **If swallowed**

Treat symptomatically

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

None anticipated, treat symptomatically

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

None anticipated, treat symptomatically

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## **5 Firefighting measures**

### **5.1 Extinguishing media**

No incompatible extinguishing media

### **5.2 Special hazards arising from the substance or mixture**

May decompose in a fire, giving off toxic and irritant vapours.

### **5.3 Advice for fire-fighters**

No specific advice

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## **6 Accidental release measures**

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

Wear appropriate PPE for the situation. Provide adequate ventilation.

### **6.2 Environmental precautions**

Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

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

Adsorb spillages onto sand, earth or any suitable adsorbent material. Contain spillages with sand, earth or any suitable adsorbent material. Earth may be shovelled to contain spillage and to avoid contamination of sewers and watercourses.

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## 6.4 Reference to other sections

See sections 8 and 13

## 7 Handling and storage

### 7.1 Precautions for safe handling

Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands and exposed skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

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

**Technical measures and storage conditions:** Store beads refrigerated between 2 and 8 °C

**Requirements for storage rooms and vessels:** Ensure lids are tightly sealed and secured. Store locked up. Store in a well-ventilated place.

**Further information on storage conditions:** Not required

## 8 Exposure controls/personal protection

### 8.1 Control parameters

#### 8.1.1. Occupational Exposure Limits

Occupational Exposure Limits						
SUBSTANC E.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Note
Acrylic acid	79- 10-7	10	29	20	59	(n)

Region

United Kingdom

Remark

(n)

Source

UK Workplace Exposure Limits EH40/2005 (Fourth edition, published 2020)

Notes

STEL in relation to a 1-minute reference period

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## 8.2 Exposure controls

**Eyes:** Wear appropriate protective eyeglasses with side protection, chemical goggles or face shield

**Skin:** wear appropriate impervious gloves (EN 374) and appropriate protective clothing to prevent skin exposure. Always wear appropriate closed-toe footwear

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical State:	Liquid
Colour:	tan/dark brown.
Odour:	odourless.
Odour threshold:	Not known.
pH:	Not known.
Melting point/freezing point:	Not known.
Initial boiling point and boiling range:	Not known
Flash Point:	Not known.
Evaporation rate:	Not known.
Flammability (solid, gas):	Not known.
Upper/lower flammability or explosive limits:	Not known.
Vapour pressure:	Not known.
Vapour density:	Not known.
Density (g/ml):	Not known.
Relative density:	Not known.
Solubility(ies):	
Solubility (Water):	Not known
Solubility (Other):	Not known.
Partition coefficient: n-octanol/water:	Not known.
Auto-ignition temperature:	Not known.
Decomposition Temperature (°C):	Not known.
Viscosity:	Not known.
Explosive properties:	Not known.
Oxidising properties:	Not known

## 10 stability and reactivity

### 10.1 Reactivity

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None Anticipated

## 10.2 Chemical stability

Stable under normal conditions

## 10.3 Possibility of hazardous reactions

None known if used for intended purpose

## 10.4 Conditions to avoid

None Anticipated

## 10.5 Incompatible materials

None known

## 10.6 Hazardous decomposition products

None known

# 11 Toxicological Information

## 11.1 Information on toxicological effects

Acute toxicity – Ingestion:	Not classified
Acute toxicity estimate (ATE)	50000
Acute toxicity – Skin Contact:	Not classified
Acute toxicity estimate (ATE)	110000
Acute toxicity – Inhalation:	Not classified
Acute toxicity estimate (ATE)	1100
Skin corrosion/irritation:	Causes skin irritation
Serious eye damage/irritation:	Causes serious eye irritation
Skin sensitization data:	Not classified
Respiratory sensitization data:	Not classified
Germ cell mutagenicity:	There is no evidence of mutagenic potential.
Carcinogenicity:	No evidence of carcinogenicity.
Reproductive toxicity:	Not classified
Lactation:	Not classified
STOT – single exposure:	May cause respiratory irritation
STOT – repeated exposure:	Not classified
Aspiration hazard:	Not classified

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## 12 Ecological information

### 12.1 Information on toxicological effects

Toxicity - Aquatic invertebrates:	Low toxicity to invertebrates.
Toxicity - Fish:	Low toxicity to fish.
Toxicity - Algae:	Low toxicity to algae.
Toxicity - Sediment Compartment:	Not classified.
Toxicity - Terrestrial Compartment:	Not classified.

### 12.2 Persistence and degradability

Not known

### 12.3 Bioaccumulative potential

Not known

### 12.4 Mobility in soil

Not known

### 12.5 Results of PBT and vPvB assessment

Not known

### 12.6 Other adverse effects

Not known

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## 13 Disposal considerations

### 13.1 Waste treatment method

Disposal should be in accordance with local, state or national legislation. Send to a licensed recycler, reclaimer or incinerator. Dispose at a suitable refuse site

### 13.2 Additional information

No special precautions are required for this product

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## 14 Transport information

Not classified as hazardous for transport

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## 15 Regulatory information

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



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**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

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

H226: Flammable liquid and vapour  
H251: Self-heating, may catch fire  
H302: Harmful if swallowed.  
H312: Harmful in contact with skin  
H314: Causes severe skin burns and eye damage  
H315: Causes skin irritation.  
H319: Causes serious eye irritation  
H332: Harmful if inhaled  
H335: May cause respiratory irritation  
H400: Very toxic to aquatic life

### 16.2 Training instructions:

Not applicable

### 16.3 Further information:

#### Notice to readers:

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references. The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered. For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

- EN 166 Personal eye-protection
- EN 340 Protective clothing
- EN 374 Protective gloves against chemicals and micro-organisms
- EN 13832 Footwear protecting against chemicals
- EN 133 Respiratory protective devices

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

### 1.1 Product identifier:

Trade name: gDNA Wash Buffer 1 (BXG\_GWO96)

**Application:** For research use only.

**Uses advised against:** No specific uses advised against are identified.

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

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

Registered No: 9590278

[Lee.silcock@nonacus.com](mailto:Lee.silcock@nonacus.com)

[Chris.sale@nonacus.com](mailto:Chris.sale@nonacus.com)

### 1.3 Emergency telephone numbers:

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

---

## 2 Hazards identification

### 2.1 Classification of the substance or mixture:

GB CLP Regulation, UK SI 2019/720 and UK SI 2020/1567

Not classified as dangerous for supply/use.

### 2.2 Label elements:

**Product Name:**

Wash Buffer 1

**Hazard pictogram(s):**

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NOT APPLICABLE

**Signal Word(s):**

NOT APPLICABLE

**Hazard Statement(s):**

NOT APPLICABLE

**Precautionary Statement(s) Prevention:**

NOT APPLICABLE

**Precautionary Statement(s) Response:**

NOT APPLICABLE

## 3 Composition/information on ingredients

### 3.1 Substances

NOT APPLICABLE

### 3.2 Mixtures

1.CAS No 2.EC No 3.Index No 4.REACH No	%[weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	Nanoform Particle Characteristics
1. 7791-07-3 2. 616-573-0 3. 017-010-00-6 . 4. unknown	<50	<u>Perchloric acid, sodium salt, monohydrate</u>	Ox. Sol. 1 H271 Acute Tox. Oral 4 H302	
<b>Legend:</b>	1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 3. Classification drawn from C&L			

## 4 First Aid Measures

### 4.1 Description of first aid measures

Inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing

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Skin Contact	Wash skin with plenty of soap and water
Eye contact	Flush eyes with water for at least 15 minutes and consult a physician
Ingestion	Wash out mouth with water

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

None anticipated, treat symptomatically

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

Unlikely to be required, but if necessary, treat symptomatically

---

## 5 Firefighting measures

### 5.1 Extinguishing media

As appropriate for surrounding fire  
No unsuitable extinguishing media

### 5.2 Special hazards arising from the substance or mixture

### 5.3 None anticipated. Advice for firefighters

NOT APPLICABLE

---

## 6 Accidental release measures

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

Provide adequate ventilation. Wear suitable gloves.

### 6.2 Environmental precautions

Do not release large quantities into the surface water or into drains

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

Absorb spillages using sand or other suitable absorbent material

### 6.4 Reference to other sections

See also sections 8 and 13

---

## 7 Handling and storage

### 7.1 Precautions for safe handling

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Not known

## 7.2 Conditions for safe storage, including any incompatibilities

**Technical measures and storage conditions:** Store at room temperature

**Requirements for storage rooms and vessels:** NOT APPLICABLE

**Further information on storage conditions:** Not known

## 8 Exposure controls/personal protection

### 8.1 Control parameters

No workplace exposure limits for substances in mixture

### 8.2 Exposure controls

**Engineering controls:**

Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment**

Eyes: Wear appropriate protective eyewear with side protection (EN166)

Skin: wear appropriate gloves and appropriate protective clothing to prevent skin exposure. Always wear appropriate closed-toe footwear

**Environmental exposure controls:**

Do not release large quantities into surface water or drains

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

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

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Relative density:	Not known.
Solubility(ies):	
Solubility (Water):	Not known.
Solubility (Other):	Not known.
Partition coefficient: n-octanol/water:	Not known.
Auto-ignition temperature:	Not known.
Decomposition Temperature (°C):	Not known.
Viscosity:	Not known.
Explosive properties:	Not known.
Oxidising properties:	Not known.

## 10 stability and reactivity

### 10.1 Reactivity

None anticipated

### 10.2 Chemical stability

Stable under normal conditions

### 10.3 Possibility of hazardous reactions

No hazardous reactions known if used for intended purpose

### 10.4 Conditions to avoid

None Anticipated

### 10.5 Incompatible materials

Not known

### 10.6 Hazardous decomposition products

No hazardous decomposition products known

## 11 Toxicological Information

Acute toxicity – Ingestion:	Not classified
Acute toxicity estimate (ATE)	3559.99
Acute toxicity – Skin Contact:	Not classified
Acute toxicity – Inhalation:	Not classified
Skin corrosion/irritation:	Not classified
Serious eye damage/irritation:	Not classified
Skin sensitization data:	Not classified
Respiratory sensitization data:	Not classified
Germ cell mutagenicity:	There is no evidence of mutagenic potential.
Carcinogenicity:	No evidence of carcinogenicity.
Reproductive toxicity:	Not classified
Lactation:	Not classified

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STOT - single exposure:	Not classified
STOT - repeated exposure:	Not classified
Aspiration hazard:	Not classified

---

## 12 Ecological information

### 12.1 Information on toxicological effects

Toxicity - Aquatic invertebrates:	Low toxicity to invertebrates.
Toxicity - Fish:	Low toxicity to fish.
Toxicity - Algae:	Low toxicity to algae.
Toxicity - Sediment Compartment:	Not classified.
Toxicity - Terrestrial Compartment:	Not classified.

### 12.2 Persistence and degradability

Not known

### 12.3 Bioaccumulative potential

Not known

### 12.4 Mobility in soil

Not known

### 12.5 Results of PBT and vPvB assessment

Not known

### 12.6 Other adverse effects

Not known

---

## 13 Disposal considerations

### 13.1 Waste treatment method

Dispose at suitable refuse site

### 13.2 Additional information

No special precautions are required for this product

---

## 14 Transport information

Not classified as hazardous for transport

---

## 15 Regulatory information

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

**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

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

**H271** May cause fire or explosion; strong oxidiser.

**H302** Harmful if swallowed.

**Training instructions:**

Not applicable

**Further information:**

**Notice to readers:**

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references. The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered. For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

- EN 166 Personal eye-protection
- EN 340 Protective clothing
- EN 374 Protective gloves against chemicals and micro-organisms
- EN 13832 Footwear protecting against chemicals
- EN 133 Respiratory protective devices



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

### 1.1 Product identifier:

Trade name: gDNA Wash Buffer 2 (BXG\_GWT96)

**Application:** For research use only.

**Uses advised against:** No specific uses advised against are identified.

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

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

Registered No: 9590278

[Lee.silcock@nonacus.com](mailto:Lee.silcock@nonacus.com)

[Chris.sale@nonacus.com](mailto:Chris.sale@nonacus.com)

### 1.3 Emergency telephone numbers:

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

---

## 2 Hazards identification

### 2.1 Classification of the substance or mixture:

GB CLP Regulation, UK SI 2019/720 and UK SI 2020/1567  
Not classified as dangerous for supply/use

### 2.2 Label Elements

**Product Name:**

Wash buffer 2

**Hazard pictogram(s):**

NOT APPLICABLE

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**Signal Word(s):**

NOT APPLICABLE

**Hazard Statement(s):**

NOT APPLICABLE

---

## 3 Composition/information on ingredients

### 3.1 Substances

No substances within this mixture are considered to be hazardous

### 3.2 Mixtures

No mixtures present

---

## 4 First Aid Measures

### 4.1 Description of first aid measures

**If inhaled**

If breathing is difficult, move victim to fresh air and keep at rest in a position comfortable for breathing

**In case of skin contact**

Wash skin with water

**In case of eye contact**

Remove contact lenses if present, rinse with plenty of water

**If swallowed**

Wash mouth out with water. **DO NOT** give water if victim is unconscious

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

None anticipated. Treat symptomatically

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

None anticipated, treat symptomatically

---

## 5 Firefighting measures

### 5.1 Extinguishing media

No incompatible extinguishing media

### 5.2 Special hazards arising from the substance or mixture

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No special hazards known. Heating may cause decomposition

## 5.3 Advice for fire-fighters

No specific advice

---

## 6 Accidental release measures

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

Wear appropriate PPE for the situation

### 6.2 Environmental precautions

Cordon off area of spill to prevent slip hazards

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

Carefully absorb spill with paper towels or other absorbent materials and dispose of in an appropriate container. Clean area thoroughly afterwards

### 6.4 Reference to other sections

See also section 8 and 13

---

## 7 Handling and storage

### 7.1 Precautions for safe handling

No specific precautions are required

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

**Technical measures and storage conditions:** Store at room temperature

**Requirements for storage rooms and vessels:** Always store in original containers

**Further information on storage conditions:** Keep containers tightly closed

---

## 8 Exposure controls/personal protection

### 8.1 Control parameters

No workplace exposure limits

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## 8.2 Exposure controls

### Engineering controls:

Ensure adequate ventilation

### Personal protective equipment

Eyes: Wear appropriate protective eyeglasses with side protection, chemical goggles or face shield

Skin: Wear appropriate gloves and appropriate protective clothing to prevent skin exposure. Always wear appropriate closed-toe footwear

### Environmental exposure controls:

None required

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical State:	Liquid.
Colour:	Colourless.
Odour:	Not known.
Odour threshold:	Not known.
pH:	Not known.
Melting point/freezing point:	Not known.
Initial boiling point and boiling range:	Not known.
Flash Point:	Not known.
Evaporation rate:	Not known.
Flammability (solid, gas):	Not known.
Upper/lower flammability or explosive limits:	Not known.
Vapour pressure:	Not known.
Vapour density:	Not known.
Density (g/ml):	Not known.
Relative density:	Not known.
Solubility(ies):	
Solubility (Water):	Not known.
Solubility (Other):	Not known.
Partition coefficient: n-octanol/water:	Not known.
Auto-ignition temperature:	Not known.
Decomposition Temperature (°C):	Not known.
Viscosity:	Not known.
Explosive properties:	Not known.
Oxidising properties:	Not known.

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## 10 Stability and reactivity

### 10.1 Reactivity

None anticipated

### 10.2 Chemical stability

Stable under normal conditions

### 10.3 Possibility of hazardous reactions

None known

### 10.4 Conditions to avoid

None known

### 10.5 Incompatible materials

None known

### 10.6 Hazardous decomposition products

None known

---

## 11 Toxicological Information

### 11.1 Information on toxicological effects

Acute toxicity – Ingestion:	Not classified
Acute toxicity – Skin Contact:	Not classified
Acute toxicity – Inhalation:	Not classified
Skin corrosion/irritation:	Not classified
Serious eye damage/irritation:	Not classified
Skin sensitization data:	Not classified
Respiratory sensitization data:	Not classified
Germ cell mutagenicity:	There is no evidence of mutagenic potential.
Carcinogenicity:	No evidence of carcinogenicity.
Reproductive toxicity:	Not classified
Lactation:	Not classified
STOT – single exposure:	Not classified
STOT – repeated exposure:	Not classified
Aspiration hazard:	Not classified

# Safety Data Sheet

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## 12 Ecological information

### 12.1 Toxicity

Toxicity – Aquatic invertebrates	Low toxicity to invertebrates.
Toxicity – Fish	Low toxicity to fish.
Toxicity – Algae	Low toxicity to algae.
Toxicity – Sediment Compartment	Not classified.
Toxicity – Terrestrial Compartment	Not classified.

### 12.2 Persistence and degradability

Not known

### 12.3 Bioaccumulative potential

Not known

### 12.4 Mobility in soil

Not known

### 12.5 Results of PBT and vPvB assessment

Not known

### 12.6 Other adverse effects

Not known

---

## 13 Disposal considerations

### 13.1 Waste treatment method

Dispose at suitable refuse site

### 13.2 Additional information

No special precautions are required for this product

---

## 14 Transport information

Not classified as hazardous for transport

---

## 15 Regulatory information

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

**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

## 16 Other Information

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

None: Non-hazardous

**Training instructions:**

Not required

**Further information:**

**Notice to readers:**

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references. The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered. For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

- EN 166 Personal eye-protection
- EN 340 Protective clothing
- EN 374 Protective gloves against chemicals and micro-organisms
- EN 13832 Footwear protecting against chemicals
- EN 133 Respiratory protective devices

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

### 1.1 Product identifier:

Trade name: Elution Buffer (BXG\_GEB96)

**Application:** For research use only.

**Uses advised against:** No specific uses advised against are identified.

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

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

Registered No: 9590278

[Lee.silcock@nonacus.com](mailto:Lee.silcock@nonacus.com)

[Chris.sale@nonacus.com](mailto:Chris.sale@nonacus.com)

### 1.3 Emergency telephone numbers:

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

---

## 2 Hazards identification

### 2.1 Classification of the substance or mixture:

GB CLP Regulation, UK SI 2019/720 and UK SI 2020/1567  
Not classified as dangerous for supply/use.

### 2.2 Label elements:

**Product Name:**

Elution Buffer

**Hazard pictogram(s):**

NOT APPLICABLE

**Signal Word(s):**



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NOT APPLICABLE

**Hazard Statement(s):**

NOT APPLICABLE

---

## 3 Composition/information on ingredients

### 3.1 Substances

No substances within this mixture are considered to be hazardous

### 3.2 Mixtures

For full text of hazard/precautionary statements see section 16

---

## 4 First Aid Measures

### 4.1 Description of first aid measures

**If inhaled**

If breathing is difficult, move victim to fresh air and keep at rest in a position comfortable for breathing

**In case of skin contact**

Wash skin with water

**In case of eye contact**

Remove contact lenses if present, rinse with plenty of water

**If swallowed**

Wash mouth out with water. **DO NOT** give water if victim is unconscious

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

None anticipated. Treat symptomatically

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

None anticipated. Treat symptomatically

---

## 5 Firefighting measures

### 5.1 Extinguishing media

No incompatible extinguishing media

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## 5.2 Special Hazards arising from the substance or mixture

No special hazards known. Heating may cause decomposition

## 5.3 Advice for fire-fighters

No specific advice

---

## 6 Accidental release measures

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

Wear appropriate PPE for the situation

### 6.2 Environmental precautions

Cordon off area of spill to prevent slip hazards

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

Carefully absorb spill with paper towels or other absorbent materials and dispose of in an appropriate container. Clean area thoroughly afterwards

### 6.4 Reference to other sections

See also sections 8 and 13

---

## 7 Handling and storage

### 7.1 Precautions for safe handling

Wash thoroughly after handling  
Remove contaminated clothing and wash before reuse  
Use with adequate ventilation  
Avoid contact with skin and eyes  
Avoid ingestion and inhalation

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

**Technical measures and storage conditions:** Store at room temperature

**Requirements for storage rooms and vessels:** Always store in original containers

**Further information on storage conditions:** Keep containers tightly closed

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## 8 Exposure controls/personal protection

### 8.1 Control parameters

No workplace exposure limits

### 8.2 Exposure controls

#### Engineering controls:

Ensure adequate ventilation, especially in confined areas.

#### Personal protective equipment

Eyes: Wear appropriate protective eyeglasses with side protection, chemical goggles or face shield

Skin: wear appropriate gloves and appropriate protective clothing to prevent skin exposure. Always wear appropriate closed-toe footwear

#### Environmental exposure controls:

Do not release large quantities into surface water or drains

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical State:	Liquid.
Colour:	Colourless.
Odour:	Not known.
Odour threshold:	Not known.
pH:	Not known.
Melting point/freezing point:	Not known.
Initial boiling point and boiling range:	Not known.
Flash Point:	Not known.
Evaporation rate:	Not known.
Flammability (solid, gas):	Not known.
Upper/lower flammability or explosive limits:	Not known.
Vapour pressure:	Not known.
Vapour density:	Not known.
Density (g/ml):	Not known.
Relative density:	Not known.
Solubility(ies):	
Solubility (Water):	Not known.
Solubility (Other):	Not known.
Partition coefficient: n-octanol/water:	Not known.
Auto-ignition temperature:	Not known.
Decomposition Temperature (°C):	Not known.
Viscosity:	Not known.

# Safety Data Sheet

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Explosive properties: Not known.

Oxidising properties: Not known.

## 10 Stability and reactivity

### 10.1 Reactivity

None anticipated

### 10.2 Chemical stability

Stable under normal conditions

### 10.3 Possibility of hazardous reactions

No hazardous reactions known if used for intended purpose

### 10.4 Conditions to avoid

Not known

### 10.5 Incompatible materials

Not known

### 10.6 Hazardous decomposition products

No hazardous decomposition products known

## 11 Toxicological Information

### 11.1 Information on toxicological effects

Acute toxicity – Ingestion:	Low acute toxicity
Acute toxicity – Skin Contact:	Low acute toxicity
Acute toxicity – Inhalation:	Low acute toxicity
Skin corrosion/irritation:	Non-irritant
Serious eye damage/irritation:	Non-irritant
Skin sensitization data:	Not classified
Respiratory sensitization data:	Not classified
Germ cell mutagenicity:	There is no evidence of mutagenic potential.
Carcinogenicity:	No evidence of carcinogenicity.
Reproductive toxicity:	Not classified
Lactation:	Not classified

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STOT - single exposure:	Not classified
STOT - repeated exposure:	Not classified
Aspiration hazard:	Not classified

---

## 12 Ecological information

### 12.1 Toxicity

Toxicity - Aquatic invertebrates:	Low toxicity to invertebrates.
Toxicity - Fish:	Low toxicity to fish.
Toxicity - Algae:	Low toxicity to algae.
Toxicity - Sediment Compartment:	Not classified.
Toxicity - Terrestrial Compartment:	Not classified.

### 12.2 Persistence and degradability

Not known

### 12.3 Bioaccumulative potential

Not known

### 12.4 Mobility in soil

Not known

### 12.5 Results of PBT and vPvB assessment

Not known

### 12.6 Other adverse effects

Not known

---

## 13 Disposal considerations

### 13.1 Waste treatment method

Dispose at suitable refuse site

### 13.2 Additional information

No special precautions are required for this product

---

## 14 Transport information

Not classified as hazardous for transport

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## 15 Regulatory information

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

**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

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

No relevant classification or H statements

### Training instructions:

None required

### Further information:

Not applicable

### Notice to readers:

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references. The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered. For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

- EN 166 Personal eye-protection
- EN 340 Protective clothing
- EN 374 Protective gloves against chemicals and micro-organisms
- EN 13832 Footwear protecting against chemicals
- EN 133 Respiratory protective devices