

Safety data sheet

according to UK REACH (SI 2020/1577) as amended

Printing date 27.01.2025

Version number 13 (replaces version 12)

Revision: 27.01.2025

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: **Non Chlorine Shock**

Registration number Mixture

1.2 Relevant identified uses of the substance or mixture and uses advised against

Product category PC37 Water treatment chemicals

Application of the substance / the mixture Disinfectant

Uses advised against

Any use carrying a risk of direct contact with eyes/skin where workers are exposed without adequate personal protective equipment (PPE).

Any use involving significant release of dust, vapour or mist in the breathing zone of workers where they are exposed without suitable respiratory protective equipment (RPE).

Processes involving the use of incompatible substances - refer to section 10.

Processes involving extreme heat use advised against.

1.3 Details of the supplier of the safety data sheet

Supplier:

Complete Pool Controls Ltd
Unit 2, The Park
Stoke Orchard
Bishops Cleeve
Gloucestershire
GL52 7RS
UK

Tel: +44 (0)1242 662700 (office hours)

email: sales@cpc-chemicals.co.uk

Further information obtainable from: Product safety department.

1.4 Emergency telephone number:

OHES Environmental

Tel: 01242 300271

Members of the public seeking specific information on poisons should contact:

In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to GB-CLP

Acute Tox. 4 H302 Harmful if swallowed.

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to GB-CLP The product is classified and labelled according to the GB CLP regulation.

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· **Hazard pictograms**



GHS05 GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labelling:**

Potassium peroxomonosulphate
Potassium persulphate
dipotassium disulphate
potassium hydrogensulphate

· **Hazard statements**

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H412 Harmful to aquatic life with long lasting effects.

· **Precautionary statements**

P260 Do not breathe dusts or mists.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
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 CENTER/doctor.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:**

EUH208 Contains Potassium persulphate. May produce an allergic reaction.
Contains biocidal active substance(s): Potassium peroxomonosulphate

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.
· **vPvB:** Not applicable.

* SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 70693-62-8 EINECS: 274-778-7 Reg.nr.: 01-2119485567-22-XXXX	Potassium peroxomonosulphate ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; Aquatic Chronic 3, H412	50 – 100%
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CAS: 7646-93-7 EINECS: 231-594-1 Index number: 016-056-00-4 Reg.nr.: 01-2120764174-54-XXXX	potassium hydrogensulphate ⚠ Skin Corr. 1B, H314; ⚠ STOT SE 3, H335	2.5 – < 5%
CAS: 7790-62-7 EINECS: 232-216-8 Reg.nr.: 01-2119987095-26-XXXX	dipotassium disulphate ⚠ Acute Tox. 3, H331; ⚠ Skin Corr. 1A, H314; Eye Dam. 1, H318 ATE: LC50/4 h inhalative: 3 mg/l	3 – < 5%
CAS: 7727-21-1 EINECS: 231-781-8 Index number: 016-061-00-1 Reg.nr.: 01-2119495676-19-XXXX	Potassium persulphate ⚠ Ox. Sol. 3, H272; ⚠ Resp. Sens. 1, H334; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 Specific concentration limit: Skin Sens. 1; H317: C ≥ 5 %	1 – 2.5%

 · **Additional information:** For the wording of the listed hazard phrases refer to section 16.

* SECTION 4: First aid measures

· 4.1 Description of first aid measures

· **General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**

Immediately rinse with water.

If skin irritation continues, consult a doctor.

Chemical burns must be treated promptly by a physician.

· **After eye contact:**

Check for and remove any contact lenses.

Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:**

Wash mouth out with water

Do not induce vomiting; call for medical help immediately.

If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

· **Information for doctor:** Treat symptomatically and supportively.

· **4.2 Most important symptoms and effects, both acute and delayed** Corrosive damage to gastro-intestinal tract.

· **Hazards** Danger of gastric perforation.

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

No further relevant information available.

* SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· **Suitable extinguishing agents:**

Water spray

Fire-extinguishing powder

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Foam

Use fire extinguishing methods suitable to surrounding conditions.

· For safety reasons unsuitable extinguishing agents:

Carbon dioxide

Water with full jet

· 5.2 Special hazards arising from the substance or mixture

Corrosive.

Not combustible but enhances combustion of other substances.

In case of fire, the following can be released:

Sulphur Oxides (SO_x)

Toxic metal oxide smoke

Oxygen

· 5.3 Advice for firefighters**· Protective equipment:**

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

Wear fully protective suit.

· Additional information

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

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

Ensure adequate ventilation

Avoid formation of dust.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions:

Do not allow to penetrate the ground/soil.

Do not allow product to reach sewage system or any water course in the undiluted form.

Inform respective authorities in case of seepage into water course or sewage system.

· 6.3 Methods and material for containment and cleaning up:

Pick up mechanically.

Send for recovery or disposal in suitable receptacles.

Ensure adequate ventilation.

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

*** SECTION 7: Handling and storage****· 7.1 Precautions for safe handling**

Avoid direct contact (skin/eye contact, ingestion and/or inhalation of fume/mist/dust) with the product in the undiluted form.

Thorough dedusting.

Ensure good ventilation/exhaustion at the workplace.

Safety showers and eye wash facilities should be available at the work area.

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- **Information about fire - and explosion protection:** Keep respiratory protective device available.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Prevent any seepage into the ground.
Do not store in aluminium or galvanised containers.
- **Information about storage in one common storage facility:**
Store away from reducing agents.
Store away from flammable substances.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **Storage class:** 8 A
- **7.3 Specific end use(s)** No further relevant information available.

* SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· DNELs		
CAS: 70693-62-8 Potassium peroxomonosulphate		
Oral	Long-term systemic effects	1 mg/kg bw/day (general population)
	Short-term systemic effects	3 mg/kg bw/day (general population)
Dermal	Long-term systemic effects	2 mg/kg bw/day (general population)
		4 mg/kg bw/day (worker)
Inhalative	Long-term local effects	56 µg/m ³ (general population)
		112 µg/m ³ (worker)
CAS: 7790-62-7 dipotassium disulphate		
Inhalative	Long-term systemic effects	65 µg/m ³ (general population)
		130 µg/m ³ (worker)
	Short-term systemic effects	130 µg/m ³ (general population)
		260 µg/m ³ (worker)
	Long-term local effects	65 µg/m ³ (general population)
		130 µg/m ³ (worker)
	Short-term local effects	130 µg/m ³ (general population)
		260 µg/m ³ (worker)
CAS: 7727-21-1 Potassium persulphate		
Oral	Short-term systemic effects	1.37 mg/kg bw/day (general population)
	Long-term systemic effects	460 µg/kg bw/day (general population)
Dermal	Long-term systemic effects	4.6 mg/kg bw/day (general population)
		12.7 mg/kg bw/day (worker)
Inhalative	Long-term local effects	421 µg/m ³ (general population)
		824 µg/m ³ (worker)

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· PNECs	
CAS: 70693-62-8 Potassium peroxomonosulphate	
Freshwater	22.2 µg/L
Freshwater - Intermittent releases	10 µg/L
Marine water	2.22 µg/L
Marine Water - Intermittent releases	5.56 µg/L
Sewage Treatment Plant	1 mg/L
Sediment (freshwater)	79.92 µg/kg
Sediment (marine water)	7.992 µg/kg
Soil	2.996 µg/kg
CAS: 7790-62-7 dipotassium disulphate	
Freshwater	680 µg/L
Freshwater - Intermittent releases	6.8 mg/L
Marine water	68 µg/L
Sewage Treatment Plant	800 mg/L
Sediment (freshwater)	2.5 mg/kg
Sediment (marine water)	250 µg/kg
Soil	92 µg/kg
CAS: 7727-21-1 Potassium persulphate	
Freshwater	518 µg/L
Freshwater - Intermittent releases	763 µg/L
Marine water	51.8 µg/L
Sewage Treatment Plant	3.6 mg/L
Sediment (freshwater)	2.03 mg/kg
Sediment (marine water)	203 µg/kg
Soil	100 µg/kg

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Appropriate engineering controls** No further data; see section 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Do not eat or drink while working.

Do not breathe dust

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Ensure that eyewash stations and safety showers are close to the workstation location.

· **Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.

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Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

· **Hand protection**



Protective gloves.

Use gloves tested and approved under appropriate government standards such as NIOSH (US) or EN374 (EU).

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye/face protection**



Tightly sealed goggles conforming to EN166.



Use visor if handling dust.

· **Body protection:**



Protective work clothing

Body protection must be chosen depending on product properties, activity and possible exposure.

· **Environmental exposure controls** Do not allow to enter drains, sewers or watercourses.

· **Risk management measures** The operators shall be instructed adequately.

* SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Physical state**

Solid

· **Colour:**

According to product specification

· **Odour:**

Characteristic

· **Odour threshold:**

Not determined.

· **Melting point/freezing point:**

Undetermined.

· **Boiling point or initial boiling point and boiling range**

Undetermined.

· **Flammability**

Not determined.

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<ul style="list-style-type: none"> · Lower and upper explosion limit · Lower: · Upper: · Flash point: · Decomposition temperature: · pH at 20 °C · Viscosity: · Kinematic viscosity · Dynamic: · Solubility · water: · Partition coefficient n-octanol/water (log value) · Vapour pressure: · Density and/or relative density · Density at 20 °C: · Relative density · Vapour density 	<ul style="list-style-type: none"> Not determined. Not determined. Not applicable. >50 °C 2 – 3 (1%) Not applicable. Not applicable. Soluble. Not determined. Not applicable. 1.1 g/cm³ Not determined. Not applicable.
<ul style="list-style-type: none"> · 9.2 Other information · Appearance: · Form: · Important information on protection of health and environment, and on safety. · Ignition temperature: · Explosive properties: · Change in condition · Evaporation rate 	<ul style="list-style-type: none"> NOTE: The physical data presented above are typical values and should not be construed as a specification. Solid Product is not self-igniting. Product does not present an explosion hazard. Not applicable.
<ul style="list-style-type: none"> · Information with regard to physical hazard classes · Explosives · Flammable gases · Aerosols · Oxidising gases · Gases under pressure · Flammable liquids · Flammable solids · Self-reactive substances and mixtures · Pyrophoric liquids · Pyrophoric solids · Self-heating substances and mixtures · Substances and mixtures, which emit flammable gases in contact with water · Oxidising liquids · Oxidising solids · Organic peroxides · Corrosive to metals · Desensitised explosives 	<ul style="list-style-type: none"> Void Void Void Void Void Void Void Void Void Void Void Void Void Void Void Void Void Void

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* SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**
Acts as an oxidising agent on organic materials such as wood, paper and fats.
- **10.4 Conditions to avoid** Heat and static discharge.
- **10.5 Incompatible materials:**
Finely powdered metals.
Strong bases.
Strong acids.
Cyanides
Metal salts
Halogenated hydrocarbons
- **10.6 Hazardous decomposition products:**
Sulphur oxides (SO_x)
Metal oxide
Oxygen

* SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Harmful if swallowed.

· **LD/LC50 values relevant for classification:**

ATE (Acute Toxicity Estimates)

Oral	LD50	1,301.6 mg/kg (rat)
Inhalative	LC50/4 h	66.667 mg/l

CAS: 70693-62-8 Potassium peroxomonosulphate

Oral	LD50	1,204 mg/kg (rat)
Dermal	LD50	> 11,000 mg/kg (rabbit)
Inhalative	LC50/4 h	> 14 mg/l (rat)

CAS: 7646-93-7 potassium hydrogensulphate

Oral	LD50	2,340 mg/kg (rat)
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CAS: 7727-21-1 Potassium persulphate

Oral	LD50	802 mg/kg (rat)
Dermal	LD50	> 10,000 mg/kg (rabbit)
Inhalative	LC50/4 h	> 42.9 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Causes severe skin burns and eye damage.
- **Serious eye damage/irritation** Causes serious eye damage.
- **Respiratory or skin sensitisation** May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.

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- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

· **Additional toxicological information:**

Inhalation may cause lung oedema, but only after initial corrosive effects on eyes and/or airways have become manifest. The symptoms of lung oedema often do not become manifest until a few hours have passed and they are aggravated by physical effort. Rest and medical observation are therefore essential. Immediate administration of an appropriate inhalation therapy by a doctor or a person authorized by him/her, should be considered.

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.

· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients are listed.

* SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

CAS: 70693-62-8 Potassium peroxomonosulphate

EC50 (96 h)	3.5 mg/l (Bacteria)
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CAS: 7727-21-1 Potassium persulphate

EC50 (96 h)	133 mg/l (Bacteria)
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- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** Product is not expected to bioaccumulate.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**
 Harmful to aquatic organisms
 Must not reach sewage water or drainage ditch undiluted or unneutralised.
 Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
 Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

* SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Recommended Hierarchy of Controls:

- Minimise waste;
- Reuse if not contaminated;
- Recycle, if possible; or

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- Safe disposal (if all else fails).

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact waste processors for recycling information.

Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation.

· **Uncleaned packaging:**

· **Recommendation:**

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Container remains hazardous when empty. Continue to observe all precautions.



Do not mix with other waste streams.

Disposal must be made according to official regulations.

Containers, even those that are “empty,” may contain residues that can develop flammable and/or hazardous vapours upon heating. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers.

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

*** SECTION 14: Transport information**

<ul style="list-style-type: none"> · 14.1 UN number or ID number · ADR/RID/ADN, IMDG, IATA 	<p style="text-align: center;">UN3260</p>
<ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR/RID/ADN · IMDG, IATA 	<p>UN3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Potassium peroxomonosulphate, POTASSIUM HYDROGEN SULPHATE)</p> <p>CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Potassium peroxomonosulphate, POTASSIUM HYDROGEN SULPHATE)</p>
<ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR/RID/ADN <div style="text-align: center;">  </div> <ul style="list-style-type: none"> · Class · Label 	<p>8 (C2) Corrosive substances.</p> <p>8</p>
<ul style="list-style-type: none"> · IMDG, IATA <div style="text-align: center;">  </div> <ul style="list-style-type: none"> · Class · Label 	<p>8 Corrosive substances.</p> <p>8</p>
<ul style="list-style-type: none"> · 14.4 Packing group · ADR/RID/ADN, IMDG, IATA 	<p style="text-align: center;">II</p>
<ul style="list-style-type: none"> · 14.5 Environmental hazards: 	<p style="text-align: center;">Not applicable.</p>

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<ul style="list-style-type: none"> · 14.6 Special precautions for user · Hazard identification number (Kemler code): · Hazchem Code: · EMS Number: · Segregation groups · Stowage Category 	<p>Warning: Corrosive substances.</p> <p>80</p> <p>2X</p> <p>F-A,S-B</p> <p>(SGG1) Acids</p> <p>B</p>
<ul style="list-style-type: none"> · 14.7 Maritime transport in bulk according to IMO instruments 	<p>Not applicable.</p>
<ul style="list-style-type: none"> · Transport/Additional information: 	
<ul style="list-style-type: none"> · ADR/RID/ADN · Limited quantities (LQ) · Excepted quantities (EQ) · Transport category · Tunnel restriction code 	
<ul style="list-style-type: none"> · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) 	
<ul style="list-style-type: none"> · UN "Model Regulation": 	<p>UN 3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (POTASSIUM PEROXOMONOSULPHATE, POTASSIUM HYDROGEN SULPHATE), 8, II</p>

* SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Poisons Act**

· Regulated explosives precursors	None of the ingredients are listed.
· Regulated poisons	None of the ingredients are listed.
· Reportable explosives precursors	None of the ingredients are listed.
· Reportable poisons	None of the ingredients are listed.

- **Control Of Major Accident Hazards Regulations 2015 (COMAH)**
- **Named dangerous substances - ANNEX I** None of the ingredients are listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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* SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

· **Relevant phrases**

- H272 May intensify fire; oxidiser.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H412 Harmful to aquatic life with long lasting effects.

· **Training hints**

This product should only be handled by workers who have received sufficient training in the safe handling and use of chemical products.

· **Department issuing SDS: Product safety department.**

· **Abbreviations and acronyms:**

- ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- DNEL: Derived No-Effect Level (UK REACH)
- PNEC: Predicted No-Effect Concentration (UK REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- ATE: Acute toxicity estimate values
- Ox. Sol. 3: Oxidizing solids – Category 3
- Acute Tox. 4: Acute toxicity – Category 4
- Acute Tox. 3: Acute toxicity – Category 3
- Skin Corr. 1A: Skin corrosion/irritation – Category 1A
- Skin Corr. 1B: Skin corrosion/irritation – Category 1B
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Dam. 1: Serious eye damage/eye irritation – Category 1
- Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
- Resp. Sens. 1: Respiratory sensitisation – Category 1
- Skin Sens. 1: Skin sensitisation – Category 1
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· *** Data compared to the previous version altered.**