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

Printing date 03.02.2025

Version number 7

Revision: 03.02.2025

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

- 1.1 Product identifier
- · Trade name: STARVER
- 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 Phosphate remover
- · Uses advised against

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

· 1.3 Details of the supplier of the safety data sheet

Supplier: Total Water Products Unit 6 Seaway Parade Ind. Estate Baglan Port Talbot SA12 7BR

Tel: 0044 1639 823233 e-mail: info@totalwaterproducts.co.uk

• Further information obtainable from: Product safety department.

• 1.4 Emergency telephone number: 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

Eye Dam. 1H318 Causes serious eye damage.Skin Sens. 1H317 May cause an allergic skin reaction.Aquatic Chronic 3H412 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.

· Hazard pictograms



- · Signal word Danger
- · Hazard-determining components of labelling:
- Lanthanum chloride
- · Hazard statements
- H318 Causes serious eye damage.
- H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.



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· Precautionary statements

P261	Avoid breathing mist/vapours/spray.	
P273	Avoid release to the environment.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P302+P352	IF ON SKIN: Wash with plenty of water.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present	
	and easy to do. Continue rinsing.	
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.	
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.

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Dangerous components:			
CAS: 10099-58-8	Lanthanum chloride	10 - < 25%	
EINECS: 233-237-5	Alternative CAS number: 10025-84-0		
	 Met. Corr.1, H290; Eye Dam. 1, H318; Aquatic Chronic 2, H411; Skin Sens. 1A, H317 Specific concentration limit: Skin Sens. 1A; H317: C ≥ 10 % 		
• 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.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:
- Immediately wash with water and soap and rinse thoroughly.
- If skin irritation continues, consult a doctor.
- · After eve contact:
- Check for and remove any contact lenses.
- Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing:
- Rinse out mouth and then drink plenty of 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 No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

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* **SECTION 5: Firefighting measures**

5.1 Extinguishing media

· Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray.

- Use fire extinguishing methods suitable to surrounding conditions.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture
- In case of fire, the following can be released: Chlorine compounds

Toxic metal oxide smoke

• 5.3 Advice for firefighters

• Protective equipment:

Wear fully protective suit.

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

· Additional information 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 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.

6.3 Methods and material for containment and cleaning up:

Contain and collect spillage with non-combustible, absorbent material e.g.sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wash the area with plenty of water.

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.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

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

· Information about fire - and explosion protection: No special measures required.

• 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles: Prevent any seepage into the ground.

Information about storage in one common storage facility: Store away from oxidising agents.



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· Further information about storage conditions:

Protect from frost.

Keep container tightly sealed.

• Storage class: 12

• 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: 10099-58-8 Lanthanum chloride				
Dermal	Long-term systemic effects	123 mg/kg bw/day (worker)		
Inhalative	Long-term systemic effects	108.44 mg/m ³ (worker)		
· PNECs				
CASt 10000 58 8 Lanthanum chlorida				

CAS: 10099-58-8 Lanthanum chloride		
Freshwater	17.6 µg/L	
Freshwater - Intermittent releases	20.83 µg/L	
Marine water	1.76 μg/L	
Freshwater Freshwater - Intermittent releases Marine water Sewage Treatment Plant	12.5 mg/L	

• 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, drink, smoke or sniff while working.
- 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.





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.



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· 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.

· 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	Liquid	
· Colour:	Whitish	
· Odour:	Mild	
• Odour threshold:	Not determined.	
 Melting point/freezing point: 	Undetermined.	
 Boiling point or initial boiling point and boiling range 	e 100 °C	
· Flammability	Not applicable.	
 Lower and upper explosion limit 		
· Lower:	Not determined.	
· Upper:	Not determined.	
· Flash point:	Not applicable.	
· Decomposition temperature:	Not determined.	
• рН at 20 °С	3	
· Viscosity:		
· Kinematic viscosity	Not determined.	
· Dynamic:	Not determined.	
· Solubility		
water:	Fully miscible.	
 Partition coefficient n-octanol/water (log value) 	Not determined.	
· Vapour pressure at 20 °C:	23 hPa	
 Density and/or relative density 		
· Density at 20 °C:	1.082 g/cm^3	
· Relative density	Not determined.	
· Vapour density	Not determined.	
• 9.2 Other information	NOTE: The physical data presented above are typical values and should not be construed as a specification.	

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· Appearance:	
· Form:	Fluid
· Important information on protection of health and	
environment, and on safety.	
Ignition temperature:	Product is not self-igniting.
· Explosive properties:	Product does not present an explosion hazard.
· Solvent content:	
· VOC (EC)	0.00 %
Change in condition	
· Evaporation rate	Not determined.
· Information with regard to physical hazard classes	
·Explosives	Void
· Flammable gases	Void
Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
• Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases	8
in contact with water	Void
· Oxidising liquids	Void
Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
Desensitised explosives	Void

* 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 No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: Strong acids and oxidising agents
- **10.6 Hazardous decomposition products:** Hydrogen chloride (HCl)
- Metal oxide

* SECTION 11: Toxicological information

• 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

• Acute toxicity Based on available data, the classification criteria are not met.

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Trade name: STARVER

· LD/LC50 values relevant for classification:

CAS: 10099-58-8 Lanthanum chloride

Oral LD50 > 2,000 mg/kg (rat)

Dermal LD50 > 2,000 mg/kg (rabbit)

· Primary irritant effect:

• Skin corrosion/irritation Based on available data, the classification criteria are not met.

• Serious eye damage/irritation Causes serious eye damage.

• Respiratory or skin sensitisation May cause an allergic skin reaction.

- · Germ cell mutagenicity 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.
- 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.
- Subacute to chronic toxicity: Prolonged or repeated skin contact may irritate and cause dermatitis.
- · Additional toxicological information: Repeated or prolonged skin contact may induce sensitisation.
- 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients are listed.

* SECTION 12: Ecological information

- · 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability Inorganic substance: not applicable
- 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 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

* 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. 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

 14.1 UN number or ID number ADR/RID/ADN, ADN, IMDG, IATA 	Not applicable
 14.2 UN proper shipping name ADR/RID/ADN, ADN, IMDG, IATA 	Not applicable
• 14.3 Transport hazard class(es)	
· ADR/RID/ADN, ADN, IMDG, IATA · Class	Not applicable
 14.4 Packing group ADR/RID/ADN, IMDG, IATA 	Not applicable
• 14.5 Environmental hazards: • Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable.
 14.7 Maritime transport in bulk according to IMC instruments 	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	Not applicable

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.	
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· 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.

* 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

H290 May be corrosive to metals.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H411 Toxic 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)

- VOC: Volatile Organic Compounds (USA, EU)
- 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 Met. Corr.1: Corrosive to metals – Category 1

Eve Dam. 1: Serious eve damage/eve irritation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1A: Skin sensitisation - Category 1A

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

** Data compared to the previous version altered.