



SAFETY DATA SHEET BACTERICIDAL HYDROCLEAN

According to Regulation (EC) No 1907/2006, Annex II, as amended.

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

1.1. Product identifier

Product name BACTERICIDAL HYDROCLEAN
Internal identification C197
UFI UFI: PWH0-K0P0-100R-QFQV

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

Identified uses Detergent. Disinfectant.
Uses advised against Use only for intended applications.

1.3. Details of the supplier of the safety data sheet

Supplier ARROW SOLUTIONS
RAWDON ROAD,
MOIRA,
SWADLINCOTE,
DERBYSHIRE,
DE12 6DA,
ENGLAND
TEL: +44 (0)1283 221044
FAX: +44 (0)1283 225731
sales@arrowchem.com

1.4. Emergency telephone number

Emergency telephone +44 (0) 777 8505 330 (24 hrs).

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified
Health hazards Skin Irrit. 2 - H315 Eye Dam. 1 - H318
Environmental hazards Aquatic Chronic 3 - H412

2.2. Label elements

Hazard pictograms



Signal word Danger

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Hazard statements	H315 Causes skin irritation. H318 Causes serious eye damage. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	P273 Avoid release to the environment. P280 Wear protective gloves, eye and face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/ doctor. P501 Dispose of contents/ container in accordance with national regulations.
UFI	UFI: PWH0-K0P0-100R-QFQV
Contains	SODIUM SILICATE
Detergent labelling	< 5% disinfectants, < 5% non-ionic surfactants

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate 5-10%		
CAS number: 51981-21-6	EC number: 257-573-7	REACH registration number: 01-2119493601-38-XXXX
Classification Not Classified		
SODIUM SILICATE 1-5%		
CAS number: 1344-09-8	EC number: 215-687-4	REACH registration number: 01-2119448725-31-XXXX
Classification Met. Corr. 1 - H290 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335		
Quaternary ammonium compounds, benzyl-C12-16 (even numbered)-alkyldimethyl, chlorides 1-5%		
CAS number: 68424-85-1	EC number: 939-350-2	
M factor (Acute) = 10	M factor (Chronic) = 1	
Classification Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		

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ISOTRIDECANOL ETHOXYLATED			1-5%
CAS number: 69011-36-5	EC number: 931-138-8		
Classification Acute Tox. 4 - H302 Eye Dam. 1 - H318			
C13-15 ALCOHOL ETHOXYLATE 7EO			1-5%
CAS number: 157627-86-6			
Classification Acute Tox. 4 - H302 Eye Dam. 1 - H318 Aquatic Chronic 3 - H412			
DISODIUM METASILICATE			1-5%
CAS number: 6834-92-0	EC number: 229-912-9	REACH registration number: 01-2119449811-37-XXXX	
Classification Skin Corr. 1B - H314 Eye Dam. 1 - H318 STOT SE 3 - H335			
SODIUM 4(or 5)-METHYL-1H-BENZOTRIAZOLIDE			<1%
CAS number: 64665-57-2	EC number: 265-004-9	REACH registration number: 01-2119980062-42-XXXX	
Classification Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Aquatic Chronic 2 - H411			

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Get medical attention immediately. Show this Safety Data Sheet to the medical personnel. If medical advice is needed, have product container or label at hand.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
Ingestion	Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention if any discomfort continues.
Skin contact	Rinse immediately with plenty of water. Get medical attention if irritation persists after washing.
Eye contact	Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

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

Inhalation	Coughing, chest tightness, feeling of chest pressure.
Ingestion	Gastrointestinal symptoms, including upset stomach.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye damage.

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

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media suitable for the surrounding fire.
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5.2. Special hazards arising from the substance or mixture

Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Ammonia or amines. Carbon monoxide (CO). Carbon dioxide (CO ₂). Nitrous gases (NO _x).
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5.3. Advice for firefighters

Protective actions during firefighting	No specific firefighting precautions known.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure procedures and training for emergency decontamination and disposal are in place. Keep unnecessary and unprotected personnel away from the spillage. No action shall be taken without appropriate training or involving any personal risk. Evacuate area. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Avoid contact with skin, eyes and clothing. Do not touch or walk into spilled material. Take care as floors and other surfaces may become slippery. Avoid contact with contaminated tools and objects. Do not handle broken packages without protective equipment. Wash thoroughly after dealing with a spillage.
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6.2. Environmental precautions

Environmental precautions	Do not discharge into drains or watercourses or onto the ground.
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6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Clean contaminated objects and areas thoroughly, observing environmental regulations. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage.
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6.4. Reference to other sections

Reference to other sections	Wear protective clothing as described in Section 8 of this safety data sheet.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

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Usage precautions

Observe any occupational exposure limits for the product or ingredients. Wear protective gloves, eye and face protection. Avoid release to the environment. Avoid contact with skin, eyes and clothing. Do not reuse empty containers. Do not empty into drains. Do not eat, drink or smoke when using this product. Do not handle broken packages without protective equipment. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store at temperatures between 4°C and 40°C.

Storage class Miscellaneous hazardous material storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

SODIUM SILICATE

Short-term exposure limit (15-minute): WEL 2 mg/m³

WEL = Workplace Exposure Limit.

tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate (CAS: 51981-21-6)

DNEL Workers - Inhalation; Long term systemic effects: 7.3 mg/m³
 Workers - Dermal; Long term systemic effects: 15,000 mg/kg/day
 General population - Inhalation; Long term systemic effects: 1.8 mg/m³
 General population - Dermal; Long term systemic effects: 7,500 mg/kg/day
 General population - Oral; Long term systemic effects: 1.5 mg/kg/day

SODIUM SILICATE (CAS: 1344-09-8)

DNEL Industry - Inhalation; Long term systemic effects: 5.61 mg/m³
 Industry - Dermal; Long term systemic effects: 1.59 mg/kg/day
 Consumer - Inhalation; Long term systemic effects: 1.38 mg/m³
 Consumer - Dermal; Long term systemic effects: 0.8 mg/kg/day
 Consumer - Oral; Long term systemic effects: 0.8 mg/kg/day

PNEC Fresh water; 7.5 mg/l
 marine water; 1 mg/l
 Intermittent release; 7.5 mg/l
 STP; 348 mg/l

Quaternary ammonium compounds, benzyl-C12-16 (even numbered)-alkyldimethyl, chlorides (CAS: 68424-85-1)

DNEL Industry - Dermal; Long term systemic effects: 5.7 mg/kg/day
 Industry - Inhalation; Long term systemic effects: 3.96 mg/m³
 Consumer - Oral; Long term systemic effects: 3.4 mg/kg/day
 Consumer - Dermal; Long term systemic effects: 3.4 mg/kg/day
 Consumer - Inhalation; Long term systemic effects: 1.64 mg/m³

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PNEC

- Fresh water; .0009 mg/l
- marine water; .00096 mg/l
- Intermittent release; .00016 mg/l
- Sediment (Freshwater); 12.27 mg/kg
- Sediment (Marinewater); 13.09 mg/kg
- Soil; 7.0 mg/kg
- STP; 0.4 mg/l

ISOTRIDECANOL ETHOXYLATED (CAS: 69011-36-5)

DNEL

Workers - Inhalation; Long term systemic effects: 27 mg/kg/day
 Workers - Dermal; Long term systemic effects: 2080 mg/kg/day
 General population - Dermal; Long term systemic effects: 1250 mg/kg/day

DISODIUM METASILICATE (CAS: 6834-92-0)

DNEL

Industry - Dermal; Long term : 1.49 mg/kg/day
 Industry - Inhalation; Long term : 6.22 mg/m³
 Consumer - Dermal; Long term : 0.74 mg/kg/day
 Consumer - Inhalation; Long term : 1.55 mg/m³
 Consumer - Oral; Long term : 0.74

PNEC

Fresh water; 7.5 mg/l
 marine water; 1 mg/l
 Intermittent release; 7.5 mg/l
 STP; 1000 mg/l

SODIUM 4(or 5)-METHYL-1H-BENZOTRIAZOLIDE (CAS: 64665-57-2)

DNEL

Workers - Inhalation; Long term systemic effects: 8.8 mg/m³
 Workers - Dermal; Long term systemic effects: 0.5 mg/kg/day
 General population - Inhalation; Long term systemic effects: 4.4 mg/m³
 General population - Dermal; Long term systemic effects: 0.25 mg/kg/day
 General population - Oral; Long term systemic effects: 0.25 mg/kg/day

PNEC

Fresh water; 0.008 mg/l
 marine water; 0.008 mg/l
 STP; 39.4 mg/l
 Sediment (Freshwater); 0.0025 mg/kg
 Sediment (Marinewater); 0.0025 mg/kg
 Soil; 0.0024 mg/kg

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166. The following protection should be worn: Chemical splash goggles.

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Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. The selected gloves should have a breakthrough time of at least 4 hours. The breakthrough time for any glove material may be different for different glove manufacturers. When used with mixtures, the protection time of gloves cannot be accurately estimated. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Protective gloves should have a minimum thickness of 0.15 mm. Glove thickness is not necessarily a good measure of glove resistance as the permeation rate will depend on the exact glove composition. The choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. Specific work environments and material handling practices may vary, therefore safety procedures should be developed for each intended application. For work of short duration or where a high degree of manual dexterity is needed, use protective gloves made of: Repeated exposure to chemicals will degrade the ability of the glove to provide resistance to chemicals. Gloves made from the following material may provide suitable chemical protection: Nitrile rubber. Neoprene. Rubber (natural, latex).

Other skin and body protection

Provide eyewash station.

Hygiene measures

Wash skin thoroughly after handling. Wash contaminated clothing before reuse.

Respiratory protection

No specific requirements are anticipated under normal conditions of use. Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. Respirator selection must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Gas and combination filter cartridges should comply with European Standard EN14387. Disposable filtering half mask respirators should comply with European Standard EN149 or EN405. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140. Particulate filters should comply with European Standard EN143. Check that the respirator fits tightly and the filter is changed regularly. Wear a respirator fitted with the following cartridge: Particulate filter, type P1. Dust and mist filter.

Environmental exposure controls

Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. Store in a demarcated bunded area to prevent release to drains and/or watercourses.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Clear liquid.
Colour	Colourless to pale yellow.
Odour	Detergent.
pH	pH (concentrated solution): ~ 12.5
Melting point	Not determined.
Initial boiling point and range	Not determined.
Flash point	Not applicable.

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Evaporation rate	Not determined.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.
Other flammability	Not applicable.
Vapour pressure	Not determined.
Relative density	~ 1.07 @ 25°C
Solubility(ies)	Soluble in water.
Partition coefficient	Not determined.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	Not applicable.
Viscosity	Not determined.
Explosive properties	There are no chemical groups present in the product that are associated with explosive properties.
Oxidising properties	There are no chemical groups present in the product that are associated with oxidising properties.
Comments	Information declared as "Not available" or "Not applicable" is not considered to be relevant to the implementation of the proper control measures.

9.2. Other information

Other information	Not determined.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Reactions with the following materials may generate heat: Acids.
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10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Not determined.
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10.4. Conditions to avoid

Conditions to avoid	Avoid contact with acids.
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10.5. Incompatible materials

Materials to avoid	Strong acids.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Thermal decomposition or combustion products may include the following substances: Ammonia or amines. Carbon monoxide (CO). Carbon dioxide (CO ₂). Nitrous gases (NO _x).
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

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Notes (oral LD₅₀)	Based on available data the classification criteria are not met.
ATE oral (mg/kg)	6,600.74
<u>Acute toxicity - dermal</u>	
Notes (dermal LD₅₀)	Based on available data the classification criteria are not met.
<u>Acute toxicity - inhalation</u>	
Notes (inhalation LC₅₀)	Based on available data the classification criteria are not met.
<u>Skin corrosion/irritation</u>	
Human skin model test	Cell Viability 92% and 99% 3 minutes Cell Viability 90% and 78% 1 hour Not corrosive to skin.
Extreme pH	≥ 11.5 Not corrosive to skin. Based on available data the classification criteria are not met.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Causes serious eye damage.
<u>Respiratory sensitisation</u>	
Respiratory sensitisation	Based on available data the classification criteria are not met.
<u>Skin sensitisation</u>	
Skin sensitisation	Based on available data the classification criteria are not met.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Does not contain any substances known to be mutagenic.
<u>Carcinogenicity</u>	
Carcinogenicity	Does not contain any substances known to be carcinogenic.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Does not contain any substances known to be toxic to reproduction.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	Based on available data the classification criteria are not met.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	Based on available data the classification criteria are not met.
<u>Aspiration hazard</u>	
Aspiration hazard	Not anticipated to present an aspiration hazard, based on chemical structure.
<u>Inhalation</u>	
Inhalation	Coughing, chest tightness, feeling of chest pressure.
<u>Ingestion</u>	
Ingestion	Gastrointestinal symptoms, including upset stomach.
<u>Skin contact</u>	
Skin contact	Causes skin irritation.
<u>Eye contact</u>	
Eye contact	Causes serious eye damage.
<u>Acute and chronic health hazards</u>	
Acute and chronic health hazards	Irritating to skin. Corneal damage.
Route of exposure	Skin and/or eye contact
Target organs	Eyes Skin
Medical symptoms	Irritation of eyes and mucous membranes. Skin irritation.
Acceptable Daily Exposure	ORAL ADE: 15,000 µg/day. PARENTERAL ADE: 3,000 µg/day

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Toxicological information on ingredients.

tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 2,001.0

Species Rat

ATE oral (mg/kg) 2,001.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,000.1

Species Rat

ATE dermal (mg/kg) 2,000.1

Quaternary ammonium compounds, benzyl-C12-16 (even numbered)-alkyldimethyl, chlorides

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 397.5

Species Rat

ATE oral (mg/kg) 397.5

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 3,412.0

Species Rabbit

ISOTRIDECANOL ETHOXYLATED

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 301.0

Species Rat

ATE oral (mg/kg) 301.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,001.0

Species Rat

ATE dermal (mg/kg) 2,001.0

C13-15 ALCOHOL ETHOXYLATE 7EO

Acute toxicity - oral

ATE oral (mg/kg) 555.56

Acute toxicity - dermal

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Acute toxicity dermal (LD₅₀ 2,001.0 mg/kg)

Species Rat

ATE dermal (mg/kg) 2,001.0

DISODIUM METASILICATE

Acute toxicity - oral

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 5,001.0 mg/kg)

Species Rat

ATE dermal (mg/kg) 5,001.0

SODIUM 4(or 5)-METHYL-1H-BENZOTRIAZOLIDE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ 735.0 mg/kg)

Species Rat

Notes (oral LD₅₀)

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,000.0 mg/kg)

Species Rabbit

SECTION 12: Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

12.1. Toxicity**Acute aquatic toxicity**

Acute toxicity - fish Not determined.

Chronic aquatic toxicity

Chronic toxicity - fish early life stage Not determined.

Ecological information on ingredients.**tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate****Acute aquatic toxicity**

Acute toxicity - fish LC50, 96 hours: > 100 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: > 100 mg/l, Daphnia magna

Quaternary ammonium compounds, benzyl-C12-16 (even numbered)-alkyldimethyl, chlorides

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Acute aquatic toxicity

LE(C) ₅₀	0.01 < L(E)C ₅₀ ≤ 0.1
M factor (Acute)	10
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 0.03 mg/l mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 96 hours: ~ 0.06 mg/l, Selenastrum capricornutum
<u>Chronic aquatic toxicity</u>	
M factor (Chronic)	1

ISOTRIDECANOL ETHOXYLATED

Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , 96 hours: >1 mg/l, Cyprinus carpio (Common carp)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: >1 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: >1 mg/l, Algae

C13-15 ALCOHOL ETHOXYLATE 7EO

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates	NOEC, : 0.1 - <1 mg/l, Freshwater invertebrates
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DISODIUM METASILICATE

Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , 96 hours: 210 mg/l, Brachydanio rerio (Zebra Fish)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 1700 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 207 mg/l, Scenedesmus subspicatus

SODIUM 4(or 5)-METHYL-1H-BENZOTRIAZOLIDE

Acute aquatic toxicity

Acute toxicity - fish	LC ₀ , 96 hours: 100 mg/l, Brachydanio rerio (Zebra Fish) LC ₅₀ , 96 hours: ~ 122 mg/l, Brachydanio rerio (Zebra Fish)
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12.2. Persistence and degradability

Persistence and degradability The product is expected to be biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

Partition coefficient Not determined.

12.4. Mobility in soil

Mobility The product is soluble in water.

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12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects Not determined.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Dispose of waste product or used containers in accordance with local regulations

Disposal methods Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

Special Provisions note

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations Control of Substances Hazardous to Health Regulations 2002 (as amended).

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EU legislation	Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Guidance	Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	ATE: Acute Toxicity Estimate. ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. CAS: Chemical Abstracts Service. DNEL: Derived No Effect Level. EC₅₀: 50% of maximal Effective Concentration. IATA: International Air Transport Association. IMDG: International Maritime Dangerous Goods. LC₅₀: Lethal Concentration to 50 % of a test population. LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose). NOEC: No Observed Effect Concentration. PBT: Persistent, Bioaccumulative and Toxic substance. PNEC: Predicted No Effect Concentration. REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006. UN: United Nations. vPvB: Very Persistent and Very Bioaccumulative.
Classification abbreviations and acronyms	Acute Tox. = Acute toxicity Aquatic Acute = Hazardous to the aquatic environment (acute) Aquatic Chronic = Hazardous to the aquatic environment (chronic) Eye Dam. = Serious eye damage Eye Irrit. = Eye irritation Met. Corr. = Corrosive to metals Skin Corr. = Skin corrosion Skin Irrit. = Skin irritation STOT SE = Specific target organ toxicity-single exposure
Classification procedures according to Regulation (EC) 1272/2008	Skin Corr. 1B - H314: Based on available data the classification criteria are not met. Eye Dam. 1 - H318: Calculation method. Skin Irrit. 2 - H315: Expert judgement. Aquatic Chronic 3 - H412: Calculation method.
Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	11/06/2021
Revision	4.1
Supersedes date	21/10/2019
SDS number	26683

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Hazard statements in full

H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.