SAFETY DATA SHEET

Hyline HLL-8001

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

1.1. Product identifier

Trade name

Hyline HLL-8001

Product no.

72262, 72264, 72265, 72269

Unique formula identifier (UFI)

0221-9001-A00C-HRGN

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

Relevant identified uses of the substance or mixture

Acidic dishwasher rinse.
Restricted to professional users.

Uses advised against

None known.

1.3. Details of the supplier of the safety data sheet

Company and address

HOBART GmbH
Robert-Bosch-Strasse 17
DE-77656 Offenburg
Germany
www.hobart.de

E-mail

info@hobart.de

Revision

07/08/2025

SDS Version

5.0

Date of previous version

07/01/2025 (4.0)

1.4. ▼Emergency telephone number

Healthcare professionals: Dial 0344 892 0111 to reach The National Poisons Information Service (NPIS) (24 hour service)
General public:
England - Dial 111 to reach NHS 111 (24 hour service)
Scotland - Dial 111 to reach NHS 24 (24 hour service)
Wales - Dial 111 or 0845 4647 to reach NHS Direct (24 hour service)
See section 4 “First aid measures”.

SECTION 2: Hazards identification

Classified according to Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

2.1. Classification of the substance or mixture

Eye Irrit. 2; H319, Causes serious eye irritation.
Aquatic Chronic 3; H412, Harmful to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictogram(s)

Signal word

Warning

Hazard statement(s)

Causes serious eye irritation. (H319)
Harmful to aquatic life with long lasting effects. (H412)

Precautionary statement(s)

General:

-

Prevention:

Avoid release to the environment. (P273)

Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)
If eye irritation persists: Get medical advice/attention. (P337+P313)

Storage:

-

Disposal:

-

▼Hazardous substances

Does not contain any substances required to report

Additional labelling

UFI: 0221-9001-A00C-HRGN

Labelling of contents according to Detergents Regulation (EC) No 648/2004 as retained and amended in UK law

>5% - <15%
· Non-ionic surfactants
< 5%
· Anionic surfactants

2.3. Other hazards

Additional warnings

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification. This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable. This product is a mixture.

3.2. ▼Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Oxirane, methyl-, polymer with oxirane, monobutyl ether	CAS No.: 9038-95-3 EC No.: UK-REACH: Index No.:	5-10%	Acute Tox. 4, H302	
Sodium p-cumenesulphonate	CAS No.: 15763-76-5 EC No.: 239-854-6 UK-REACH: Index No.:	3-5%	Eye Irrit. 2, H319	
Oxirane, methyl-, polymer with oxirane, monoisotridecyl ether, block	CAS No.: 196823-11-7 EC No.: 677-779-4 UK-REACH: Index No.:	1-3%	Eye Irrit. 2, H319	
Propan-2-ol	CAS No.: 67-63-0 EC No.: 200-661-7 UK-REACH: Index No.: 603-117-00-0	1-3%	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	
pH-regulating agent	CAS No.: 5949-29-1 EC No.: 611-842-9 UK-REACH: Index No.:	1-3%	Eye Irrit. 2, H319 STOT SE 3, H335	
(2-Methoxymethylethoxy) propanol	CAS No.: 34590-94-8 EC No.: 252-104-2 UK-REACH: Index No.:	1-3%		[1]
Zinc sulfate heptahydrate	CAS No.: 7446-20-0 EC No.: 616-097-3 UK-REACH: Index No.:	<1%	Acute Tox. 4, H302 (ATE: 926.00 mg/kg) Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

[1] European occupational exposure limit.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet.

Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.

Eye contact

If in eyes: Flush eyes immediately with plenty of water or isotonic water (20-30 °C) for at least 5 minutes and continue until irritation stops. Remove contact lenses. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

Ingestion

If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink.

In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

Burns

Not applicable.

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

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

If eye irritation persists: Get medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.
Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

5.3. ▼Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation, especially in confined areas.
Contaminated areas may be slippery.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local

environmental authorities.

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.
Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 “Disposal considerations” on handling of waste.
See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.
Smoking, drinking and consumption of food is not allowed in the work area.
See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and animal feeding stuffs
Store the product away from direct sunlight in opaque containers

Shelf-life: 36 months.

Recommended storage material

Keep only in original packaging.

Storage conditions

-10 - 35 °C

Incompatible materials

Chlorine

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Propan-2-ol
Long term exposure limit (8 hours) (ppm): 400
Long term exposure limit (8 hours) (mg/m^3): 999
Short term exposure limit (15 minutes) (ppm): 500
Short term exposure limit (15 minutes) (mg/m^3): 1250

(2-Methoxymethylethoxy) propanol
Long term exposure limit (8 hours) (ppm): 50
Long term exposure limit (8 hours) (mg/m^3): 308
Annotations:
Sk = Can be absorbed through the skin and lead to systemic toxicity.

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002.
EH40/2005 Workplace exposure limits (Fourth Edition 2020).

▼DNEL

(2-Methoxymethylethoxy) propanol

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	121 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	283 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	37.2 mg/m³
Long term – Systemic effects - Workers	Inhalation	308 mg/m³
Long term – Systemic effects - General population	Oral	36 mg/kg bw/day

Propan-2-ol

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	319 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	888 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	89 mg/m³
Long term – Systemic effects - Workers	Inhalation	500 mg/m³
Short term – Systemic effects - General population	Inhalation	178 mg/m³
Short term – Systemic effects - Workers	Inhalation	1000 mg/m³
Long term – Systemic effects - General population	Oral	26 mg/kg bw/day
Short term – Systemic effects - General population	Oral	51 mg/kg bw/day

Sodium p-cumenesulphonate

Duration:	Route of exposure:	DNEL:
Long term – Local effects - General population	Dermal	48 µg/cm²
Long term – Local effects - Workers	Dermal	96 µg/cm²
Long term – Systemic effects - General population	Dermal	68.1 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	191 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	6.6 mg/m³
Long term – Systemic effects - Workers	Inhalation	37.4 mg/m³
Long term – Systemic effects - General population	Oral	3.8 mg/kg bw/day

▼PNEC

(2-Methoxymethylethoxy) propanol

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		19 mg/L
Freshwater sediment		70.2 mg/kg
Intermittent release (freshwater)		190 mg/L
Marine water		1.9 mg/L
Marine water sediment		7.02 mg/kg
Sewage treatment plant		4.168 g/L

Soil		2.74 mg/kg

Propan-2-ol

Route of exposure:	**Duration of Exposure:**	**PNEC:**
Freshwater		140.9 mg/L
Freshwater sediment		552 mg/kg
Intermittent release (freshwater)		140.9 mg/L
Marine water		140.9 mg/L
Marine water sediment		552 mg/kg
Predators		160 mg/kg
Sewage treatment plant		2.251 g/L
Soil		28 mg/kg

Sodium p-cumenesulphonate

Route of exposure:	**Duration of Exposure:**	**PNEC:**
Freshwater		100 µg/L
Freshwater sediment		372 µg/kg
Intermittent release (freshwater)		1 mg/L
Marine water		10 µg/L
Marine water sediment		37.2 µg/kg
Sewage treatment plant		100 mg/L
Soil		16 µg/kg

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally

Use only UKCA marked protective equipment.

▼Respiratory Equipment

No specific requirements.

Skin protection

No specific requirements.

Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Butyl rubber (≥0,5 mm). Neoprene (≥0,5 mm). Nitrile rubber (≥0,4 mm).	0,4 - 0,5	≥480	EN374	

Eye protection

Type	Standards	
In the likelihood of direct or incidental exposure, use face protection.	EN166	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

Colourless

▼Odour / Odour threshold

No data available.

pH

~ 2,2

pH in solution

~ 5,0 (0,01%)

Density (g/cm^3)

~ 1,05

Kinematic viscosity

< 50 mPa.s

Particle characteristics

Does not apply to liquids.

Phase changes

▼Melting point/Freezing point (°C)

No data available.

Softening point/range (°C)

Does not apply to liquids.

▼Boiling point (°C)

No data available.

▼Vapour pressure

No data available.

▼Relative vapour density

No data available.

▼Decomposition temperature (°C)

No data available.

Data on fire and explosion hazards

▼Flash point (°C)

No data available.

▼Flammability (°C)

No data available.

▼Auto-ignition temperature (°C)

No data available.

▼Lower and upper explosion limit (% v/v)

No data available.

Solubility

Solubility in water

Completely soluble

▼n-octanol/water coefficient (LogKow)

No data available.

▼Solubility in fat (g/L)

No data available.

9.2. Other information

VOC (g/l)

43

Oxidizing properties

Does not meet the criteria for oxidising.

Other physical and chemical parameters

No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 “Handling and storage”.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Chlorine

10.6. ▼Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 as retained and amended in UK law

▼Acute toxicity

Product/substance	Oxirane, methyl-, polymer with oxirane, monobutyl ether
Test method:	OECD 423
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	300-2000 mg/kg
Other information:	Source: Supplier SDS

Product/substance	Sodium p-cumenesulphonate
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	>7000 mg/kg
Other information:	Source: ECHA

Product/substance	Sodium p-cumenesulphonate
Test method:	OECD 403
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50
Result:	>6,41 mg/L
Other information:	Source: ECHA

Product/substance	Sodium p-cumenesulphonate
Test method:	OECD 402
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	>2000 mg/kg
Other information:	Source: ECHA

Product/substance	Oxirane, methyl-, polymer with oxirane, monoisotridecyl ether, block
Test method:	OECD 423
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	>2000 - 5000 mg/L
Other information:	Source: Supplier SDS

Product/substance	Propan-2-ol
Test method:	OECD 401
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	5,84 g/kg bw

Other information:	Source: ECHA

Product/substance	Propan-2-ol
Test method:	OECD 403
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50
Result:	> 10000 ppm
Other information:	Source: ECHA

Product/substance	Propan-2-ol
Test method:	OECD 402
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	16,4 mL/kg bw
Other information:	Source: ECHA

Product/substance	pH-regulating agent
Test method:	OECD 401
Species:	Mouse, male/female
Route of exposure:	Oral
Test:	LD50
Result:	5400 mg/kg bw
Other information:	Source: ECHA

Product/substance	pH-regulating agent
Test method:	OECD 402
Species:	Rat, male/female
Route of exposure:	Dermal
Test:	LD50
Result:	3000 mg/kg
Other information:	Source: ECHA

Product/substance	(2-Methoxymethylethoxy) propanol
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	> 5000 mg/kg
Other information:	Source: Supplier SDS

Product/substance	(2-Methoxymethylethoxy) propanol
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	>19020 mg/kg bw
Other information:	Source: Supplier SDS

Product/substance	(2-Methoxymethylethoxy) propanol
Species:	Rat
Route of exposure:	Inhalation
Test:	Lclo

Result:	> 275 ppm
Other information:	Source: Supplier SDS

Product/substance	Zinc sulfate heptahydrate
Test method:	OECD 401
Species:	Mouse, male
Route of exposure:	Inhalation
Test:	LD50
Result:	926 mg/kg
Other information:	Source: Supplier SDS

Product/substance	Zinc sulfate heptahydrate
Test method:	OECD 402
Species:	Rat, male/female
Route of exposure:	Dermal
Test:	LD50
Result:	≥2000 mg/kg
Other information:	Source: Supplier SDS

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

▼Skin corrosion/irritation

Product/substance	Oxirane, methyl-, polymer with oxirane, monoisotridecyl ether, block
Test method:	OECD 404
Result:	Adverse effect observed (Irritating)
Other information:	Source: Supplier SDS

Product/substance	Zinc sulfate heptahydrate
Test method:	OECD 404
Species:	Rabbit
Result:	No adverse effect observed (Not irritating)
Other information:	Source: Supplier SDS

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

▼Serious eye damage/irritation

Product/substance	Oxirane, methyl-, polymer with oxirane, monoisotridecyl ether, block
Test method:	OECD 405
Species:	Rabbit
Result:	Adverse effect observed (Slightly irritating)
Other information:	Source: Supplier SDS

Product/substance	Propan-2-ol
Test method:	OECD 405
Duration:	No data available.
Result:	Adverse effect observed (Irritating)

Product/substance	pH-regulating agent
Result:	Adverse effect observed (Causes serious eye damage)

Product/substance	Zinc sulfate heptahydrate
Test method:	OECD 405
Species:	Rabbit
Result:	Adverse effect observed (Causes serious eye damage)

Other information:	Source: Supplier SDS

Causes serious eye irritation.

Respiratory sensitisation

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

Skin sensitisation

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

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.

11.2. Information on other hazards

Long term effects

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

▼Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

Other information

Propan-2-ol has been classified by IARC as a group 3 carcinogen.

SECTION 12: Ecological information

12.1. ▼Toxicity

Product/substance	Oxirane, methyl-, polymer with oxirane, monobutyl ether
Test method:	OECD 203
Species:	Fish, Brachydanio rerio
Duration:	96 hours
Test:	LC50
Result:	> 100 mg/L
Other information:	Source: Supplier SDS

Product/substance	Oxirane, methyl-, polymer with oxirane, monobutyl ether
Species:	Algae, Scenedesmus subspicatus
Duration:	72 hours
Test:	EC50
Result:	> 100 mg/L
Other information:	Source: Supplier SDS

Product/substance	Oxirane, methyl-, polymer with oxirane, monobutyl ether

Species:	Crustacean, Daphnia magna
Duration:	48 hours
Test:	EC50
Result:	> 100 mg/L
Other information:	Source: ECHA

Product/substance	Sodium p-cumenesulphonate
Test method:	OECD 203
Species:	Fish, Oncorhynchus mykiss
Compartment:	Freshwater
Duration:	96 hours
Test:	LC50
Result:	>1000 mg/L
Other information:	Source: ECHA

Product/substance	Sodium p-cumenesulphonate
Test method:	EPA OTS 797.1050
Species:	Algae, Pseudokirchneriella subcapitata
Compartment:	Freshwater
Duration:	96 hours
Test:	EC50
Result:	230 mg/L
Other information:	Source: ECHA

Product/substance	Sodium p-cumenesulphonate
Species:	Crustacean, Daphnia magna
Compartment:	Freshwater
Duration:	48 hours
Test:	EC50
Result:	1000 mg/L
Other information:	Source: ECHA

Product/substance	Oxirane, methyl-, polymer with oxirane, monoisotridecyl ether, block
Test method:	OECD 203
Species:	Fish, Brachydanio rerio
Duration:	96 hours
Test:	LC50
Result:	>2,15 - < 4,64 mg/L
Other information:	Source: Supplier SDS

Product/substance	Oxirane, methyl-, polymer with oxirane, monoisotridecyl ether, block
Test method:	DIN 38412
Species:	Algae, Scenedesmus subspicatus
Duration:	72 hours
Test:	EC50
Result:	37,07 mg/L
Other information:	Source: Supplier SDS

Product/substance	Oxirane, methyl-, polymer with oxirane, monoisotridecyl ether, block
Species:	Daphnia, Daphnia magna
Duration:	48 hours
Test:	EC50

Result:	3,59 mg/L
Other information:	Source: Supplier SDS

Product/substance	Oxirane, methyl-, polymer with oxirane, monoisotridecyl ether, block
Test method:	DIN 38412
Species:	Algae, Scenedesmus subspicatus
Duration:	72 hours
Test:	EC10
Result:	16,75 mg/L
Other information:	Source: Supplier SDS

Product/substance	Propan-2-ol
Species:	Algae, Scenedesmus quadricauda
Compartment:	Freshwater
Duration:	7 days
Result:	1800 mg/L
Other information:	Source: ECHA

Product/substance	Propan-2-ol
Test method:	OECD 202
Species:	Crustacean, Daphnia magna
Compartment:	Freshwater
Duration:	24 hours
Test:	LC50
Result:	10000 mg/L
Other information:	Source: ECHA

Product/substance	pH-regulating agent
Test method:	OECD 203
Species:	Fish, Leuciscus idus
Duration:	48 hours
Test:	LC50
Result:	440 mg/L
Other information:	Source: ECHA

Product/substance	pH-regulating agent
Species:	Algae, Scenedesmus quadricauda
Compartment:	Freshwater
Duration:	8 days
Test:	NOEC
Result:	425 mg/L
Other information:	Source: ECHA

Product/substance	pH-regulating agent
Species:	Crustacean, Daphnia magna
Compartment:	Freshwater
Duration:	24 hours
Test:	EC50
Result:	1535 mg/L
Other information:	Source: ECHA

Product/substance	(2-Methoxymethylethoxy) propanol

Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	1 - 10 g/L
Other information:	Source: Supplier SDS

Product/substance	(2-Methoxymethylethoxy) propanol
Species:	Algae
Duration:	72 hours
Test:	EC50
Result:	> 969 mg/L
Other information:	Source: Supplier SDS

Product/substance	(2-Methoxymethylethoxy) propanol
Species:	Crustacean, Daphnia magna
Duration:	4 days
Test:	LC50
Result:	1 g/L
Other information:	Source: Supplier SDS

Product/substance	Zinc sulfate heptahydrate
Species:	Fish, Pimephales promelas
Duration:	96 hours
Test:	LC50
Result:	0,330 mg/L
Other information:	Source: Supplier SDS

Product/substance	Zinc sulfate heptahydrate
Test method:	OECD 202
Species:	Crustacean, Daphnia magna
Duration:	48 hours
Test:	EC50
Result:	1,4 mg/L
Other information:	Source: Supplier SDS

Product/substance	Zinc sulfate heptahydrate
Species:	Algae, Chlorella vulgaris
Duration:	72 hours
Test:	EC50
Result:	64,8 mg/L
Other information:	Source: Supplier SDS

Harmful to aquatic life with long lasting effects.

12.2. ▼Persistence and degradability

The product is easily biodegradable.

Product/substance	Oxirane, methyl-, polymer with oxirane, monobutyl ether
Result:	> 60 %
Conclusion:	Readily biodegradable
Test:	OECD 301 F

Product/substance	Sodium p-cumenesulphonate
Conclusion:	Readily biodegradable

Product/substance	Oxirane, methyl-, polymer with oxirane, monoisotridecyl ether, block
Duration:	28 days
Result:	> 70 %
Conclusion:	Readily biodegradable
Test:	OECD 301 A
Other information:	Source: Supplier SDS

Product/substance	Propan-2-ol
Conclusion:	Readily biodegradable

Product/substance	pH-regulating agent
Result:	97%
Conclusion:	Readily biodegradable
Test:	OECD 301 B

Product/substance	(2-Methoxymethylethoxy) propanol
Result:	76 %
Conclusion:	Readily biodegradable
Test:	OECD 301 F

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No 648/2004 on detergents as retained and amended in UK law. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

12.3. Bioaccumulative potential

The product is not bioaccumulating

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

12.7. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

SECTION 13: Disposal considerations

Waste treatment methods

Product is not covered by regulations on dangerous waste.

Dispose of contents/container to an approved waste disposal plant.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

EWC code

20 01 30 Detergents other than those mentioned in 20 01 29

Specific labelling

Contaminated packing

EWC code

15 01 02 Plastic packaging

SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

* Packing group

** Environmental hazards

Additional information

Not dangerous goods according to ADR, IATA and IMDG.

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: Regulatory information

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

Restrictions for application

Restricted to professional users.

Demands for specific education

No specific requirements.

Control of Major Accident Hazards (COMAH) - Categories / dangerous substances

Not applicable.

UK-REACH, Annex XVII

Propan-2-ol is subject to UK-REACH restrictions (entry 40).

Labelling of contents according to Detergents Regulation (EC) No 648/2004 as retained and amended in UK law

>5% - <15%

· Non-ionic surfactants

< 5%

· Anionic surfactants

Additional information

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No 648/2004 on detergents as retained and amended in UK law. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Sources

The Health and Safety at Work etc. Act 1974 Regulations 2013.
Regulation (EC) No 648/2004 on detergents as retained and amended in UK law.
Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.
Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as

retained and amended in UK law.
Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H225, Highly flammable liquid and vapour.
H302, Harmful if swallowed.
H318, Causes serious eye damage.
H319, Causes serious eye irritation.
H335, May cause respiratory irritation.
H336, May cause drowsiness or dizziness.
H400, Very toxic to aquatic life.
H410, Very toxic to aquatic life with long lasting effects.

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CE = Conformité Européenne (European conformity)
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EuPCS = European Product Categorisation System
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
GWP = Global warming potential
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number

SCL = A specific concentration limit
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.
The classification of the substance/mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

The safety data sheet is validated by

IUBO

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.
The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.
It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.
Country-language: GB-en