



According to REACH Regulation (EC) No 1907/2006, as retained and amended SI 2019/758 and SI 2020/1577

SAFETY DATA SHEET

Hyline HLG 1000

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

1.1. Product identifier

Trade name

Hyline HLG 1000

Product no.

72206

Unique formula identifier (UFI)

PCF0-X0HG-J00G-9AFK

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

Relevant identified uses of the substance or mixture

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

07/05/2024

SDS Version

3.0

Date of previous version

30/04/2024 (2.0)

1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h 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:

Wear face protection/protective gloves. (P280)

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

None known.

Additional labelling

UFI: PCF0-X0HG-J00G-9AFK

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) 2018/605.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable. This product is a mixture.

3.2. ▼ Mixtures



According to REACH Regulation (EC) No 1907/2006, as retained and amended SI 2019/758 and SI 2020/1577

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 - 15 %	Acute Tox. 4, H302	
Sodium p-cumenesulphonate	CAS No.: 15763-76-5 EC No.: 239-854-6 UK-REACH: Index No.:	1 - 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 - 5 %	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 - 5 %	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	
Citric acid, monohydrate	CAS No.: 5949-29-1 EC No.: 611-842-9 UK-REACH: Index No.:	1 - 5 %	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 - 5 %		[1]
Zinc sulphate (monohydrate)	CAS No.: 7733-02-0 EC No.: 231-793-3 UK-REACH: Index No.: 030-006-00-9	<1%	Acute Tox. 4, H302 (ATE: 862.00 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



According to REACH Regulation (EC) No 1907/2006, as retained and amended SI 2019/758 and SI 2020/1577

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



According to REACH Regulation (EC) No 1907/2006, as retained and amended SI 2019/758 and SI 2020/1577

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 temperature

-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/m³): 999

Short term exposure limit (15 minutes) (ppm): 500

Short term exposure limit (15 minutes) (mg/m³): 1250

(2-Methoxymethylethoxy) propanol

Long term exposure limit (8 hours) (ppm): 50

Long term exposure limit (8 hours) (mg/m³): 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



According to REACH Regulation (EC) No 1907/2006, as retained and amended SI 2019/758 and SI 2020/1577

Long term – Systemic effects - Workers	Dermal	283 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	37.2 mg/m ³
Long term – Systemic effects - Workers	Inhalation	308 mg/m ³
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/m ³
Long term – Systemic effects - Workers	Inhalation	500 mg/m ³
Short term – Systemic effects - General population	Inhalation	178 mg/m ³
Short term – Systemic effects - Workers	Inhalation	1000 mg/m ³
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/cm ²
Long term – Local effects - Workers	Dermal	96 µg/cm ²
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/m ³
Long term – Systemic effects - Workers	Inhalation	37.4 mg/m ³
Long term – Systemic effects - General population	Oral	3.8 mg/kg bw/day

Zinc sulphate (monohydrate)

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	8.3 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	8.3 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	1.25 mg/m ³
Long term – Systemic effects - Workers	Inhalation	1 mg/m ³
Long term – Systemic effects - General population	Oral	830 µg/kgbw/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



According to REACH Regulation (EC) No 1907/2006, as retained and amended SI 2019/758 and SI 2020/1577

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

Zinc sulphate (monohydrate)

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		0,0206 mg/L
Freshwater sediment		117,8 mg/kg
Marine water		0,0061 mg/L
Marine water sediment		56,5 mg/kg
Sewage treatment plant		0,1 g/L
Soil		35,6 mg/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

Testing not relevant or not possible due to the nature of the product.

▼pH

~ 2,2

pH in solution

~ 5,0 (0,01%)

Density (g/cm³)

~ 1,05

▼ Kinematic viscosity

< 50 mPa.s

Particle characteristics

Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C)

Testing not relevant or not possible due to the nature of the product.

Softening point/range (waxes and pastes) (°C)

Does not apply to liquids.

Boiling point (°C)

Testing not relevant or not possible due to the nature of the product.

Vapour pressure

Testing not relevant or not possible due to the nature of the product.

Relative vapour density

Testing not relevant or not possible due to the nature of the product.

Decomposition temperature (°C)

Testing not relevant or not possible due to the nature of the product.

Data on fire and explosion hazards

Flash point (°C)

Testing not relevant or not possible due to the nature of the product.

Flammability (°C)

Testing not relevant or not possible due to the nature of the product.

Auto-ignition temperature (°C)

Testing not relevant or not possible due to the nature of the product.

Lower and upper explosion limit (% v/v)

Testing not relevant or not possible due to the nature of the product.

Solubility

▼ Solubility in water

Completely soluble

n-octanol/water coefficient (LogKow)

Testing not relevant or not possible due to the nature of the product.

Solubility in fat (g/L)

Testing not relevant or not possible due to the nature of the product.

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



According to REACH Regulation (EC) No 1907/2006, as retained and amended SI 2019/758 and SI 2020/1577

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

The product is not degraded when used as specified in section 1.

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
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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	Citric acid, monohydrate
Test method:	OECD 401
Species:	Mouse, male/female
Route of exposure:	Oral
Test:	LD50
Result:	5400 mg/kgbw
Other information:	Source: ECHA

Product/substance	Citric acid, monohydrate
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/kgbw
 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 sulphate (monohydrate)
 Route of exposure: Oral
 Result: 862 mg/kg
 Other information: Source: Supplier SDS

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

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 Citric acid, monohydrate
 Result: Adverse effect observed (Causes serious eye damage)

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: >1 - 10 mg/L
Other information: Source: Supplier SDS

Product/substance: Oxirane, methyl-, polymer with oxirane, monoisotridecyl ether, block
Test method: DIN 38412
Species: Algae
Duration: 72 hours
Test: EC50
Result: >10 - 100 mg/L
Other information: Source: Supplier SDS

Product/substance: Oxirane, methyl-, polymer with oxirane, monoisotridecyl ether, block
Species: Crustacean
Duration: 48 hours
Test: EC50
Result: >1 - 10 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 Citric acid, monohydrate
 Test method: OECD 203
 Species: Fish, *Leuciscus idus*
 Duration: 48 hours
 Test: LC50
 Result: 440 mg/L
 Other information: Source: ECHA

Product/substance Citric acid, monohydrate
 Species: Algae, *Scenedesmus quadricauda*
 Compartment: Freshwater
 Duration: 8 days
 Test: NOEC
 Result: 425 mg/L
 Other information: Source: ECHA

Product/substance Citric acid, monohydrate
 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 sulphate (monohydrate)
Species:	Fish, Pimephales promelas
Duration:	96 hours
Test:	LC50
Result:	0,5 mg/L
Other information:	Source: Supplier SDS; Test substance: applies to anhydrous substance

Product/substance	Zinc sulphate (monohydrate)
Test method:	OECD 202
Species:	Daphnia, Daphnia magna
Duration:	48 hours
Test:	EC50
Result:	0,259 mg/L
Other information:	Source: Supplier SDS; Test substance: applies to anhydrous substance

Product/substance	Zinc sulphate (monohydrate)
Test method:	OECD 201
Species:	Algae, Pseudokirchneriella subcapitata
Duration:	72 hours
Test:	IC50
Result:	0,136 mg/L
Other information:	Source: Supplier SDS; Test substance: applies to anhydrous substance

Product/substance	Zinc sulphate (monohydrate)
Species:	Fish, Pimephales promelas
Duration:	96 hours
Test:	LC50
Result:	0,5 mg/L

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
Result:	≥ 90 %
Conclusion:	Readily biodegradable
Test:	OECD 301 E

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

Product/substance	Citric acid, monohydrate
Result:	97%
Conclusion:	Readily biodegradable



According to REACH Regulation (EC) No 1907/2006, as retained and amended SI 2019/758 and SI 2020/1577

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 covered by the regulations on hazardous waste. (*)

HP 14 – Ecotoxic

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

07 06 01* Aqueous washing liquids and mother liquors

Specific labelling

▼ Contaminated packing

▼ EWC code

15 01 10* Packaging containing residues of or contaminated by dangerous substances

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



According to REACH Regulation (EC) No 1907/2006, as retained and amended SI 2019/758 and SI 2020/1577

** 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.

SEVESO - Categories / dangerous substances

Not applicable.

UK-REACH, Annex XVII

Propan-2-ol is subject to UK-REACH restrictions, UK-REACH annex XVII (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



According to REACH Regulation (EC) No 1907/2006, as retained and amended SI 2019/758 and SI 2020/1577

methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

▼ **The safety data sheet is validated by**

JUBO

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