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

1.1	Product identifier	
	Name:	03 LAUNDRY SOAP
	UFI code:	CQ00-F0SA-200U-4938
	Registration number:	does not have – mixture
1.2	Relevant identified uses of the substance or mixture and uses advised against	
	Identified uses:	liquid detergent
	Uses advised against:	use the mixture only for the purposes specified by the manufacturer. Otherwise, the user may be exposed to unpredictable risks.
1.3	Details of the supplier of the safety data sheet	
	Supplier:	Humdakin
	Address:	Estrupvej 1, 8380 Trige, Denmark
	Telephone:	+45 6014 1588
	Email:	info@humdakin.com
1.4	Emergency telephone number	
	Danish Poison Center (Giftlinjen): +45 8212 1212 Danish Environmental Protection Agency, Tolderlundsvej 5, 5000 Odense C, Telephone: +45 72 54 44 66	

SECTION 2: Hazards identification

2.1	Classification of the substance or mixture	
	Classification 1272/2008/WE:	The mixture is classified as dangerous. Eye Irrit. 2, H319
	Dangerous health effects:	Causes serious eye irritation.
	Dangerous effects on the environment:	not classified
	Dangerous physical-chemical effects:	not classified
2.2	Label elements	
	Hazardous ingredients:	Amides, C8-18 (even numbered) and C18-unsaturated, N, N-bis (hydroxyethyl) C8-C18, C18 unsaturated, alkanolamide; Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salt
	Hazard pictogram:	
	Signal word:	Warning
	Hazard statement:	H319 Causes serious eye irritation.
	Precautionary statements:	P102 Keep out of reach of children. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention. P501 Dispose of contents / container to a hazardous waste area or place empty container in municipal waste after emptying and rinsing.
	Marking according to EC 648/2004:	≥ 5 - <15% anionic surfactant, <5% nonionic surfactant, preservative (2-phenoxyethan-1-ol) and perfumes.
2.3	Other hazards	
	The mixture is not assessed as PBT or vPvB.	

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SECTION 3: Composition/information on ingredients

3.1	Substances		
	Does not apply.		
3.2	Mixtures		
	Aqueous surfactant solution:		
	Substance identifier	CAS number EC number Index number Registration number	Content (%)
	Classification 1272/2008		
	Alcohols, C12-14, ethoxylated, sulphates, sodium salt *	68891-38-3 500-234-8 - 01-2119488639-16	≤4,2
	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412		
	Amides, C8-18 (even numbered) and C18-unsaturated, N, N-bis (hydroxyethyl) C8-C18, C18 unsaturated, alkanolamide	- 931-329-6 - 01-2119490100-53	<1,8
	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411		
	Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salt **	68411-30-3 270-115-0 - 01-2119489428-22	≤1,5
	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412		
	2-Phenoxyethan-1-ol	122-99-6 204-589-7 603-098-00-9 01-2119488943-21	≤1,0
	Acute Tox. 4, H302 Eye Irrit. 2, H319		
	glycerol	56-81-5 200-289-5 - 01-2119471987-18	≤1,0
	The substance is not classified as dangerous.		
	2-hexyl-3-phenyl-2-propenal (trans & cis)	101-86-0 165184-98-5 639-566-4 - 01-2119533092-50	<0,07
	Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410		
	Benzyl acetate	140-11-4 205-399-7 - 01-2119638272-42	<0,035
	Aquatic Chronic 3, H412		
	4-tert-butylcyclohexyl acetate	32210-23-4 250-954-9 - 01-2119976286-24	<0,035
	Skin Sens. 1B, H317		
	2-phenylethanol	60-12-8 200-456-2 - 01-2119963921-31	<0,035
	Acute Tox. 4, H302 Eye Irrit. 2, H319		
	linalool	78-70-6 201-134-4 - 01-2119474016-42	<0,035
	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317		
	3,7-dimethyl-6-octen-1-ol (=citronellol)	106-22-9 203-375-0 - 01-2119453995-23	<0,035
	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317		

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	hexyl 2-hydroxybenzoate	6259-76-3 228-408-6 - 01-2119638275-36	<0,02	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
	2-acetyl-1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetra-methylnaphthalene (main isomer)	54464-57-2 915-730-3 - 01-2119489989-04	<0,02	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 1, H410
	(2E)-3,7-dimethyl-2,6-octadien-1-ol (= geraniol)	106-24-1 203-377-1 - 01-2119552430-49	<0,035	Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317
	3,7-dimethyl-1,6-octadien-3-yl acetate (= linalyl acetate)	115-95-7 204-116-4 - 01-2119454789-19	<0,035	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317
	2-(4-methylcyclohex-3-en-1-yl)propan-2-ol (= Terpineol)	8000-41-7 98-55-5 232-268-1 - 01-2119553062-49	<0,035	Skin Irrit. 2; H315 Eye Irrit. 2; H319
	(R)-p-mentha-1,8-dien	5989-27-5 227-813-5 - 01-2119529223-47	<0,01	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410
	3,7-dimethyl-2,6-octadien-1-ol (= nerol)	106-25-2 203-378-7 - 01-2119983244-33	<0,01	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317
	3,7-Dimethyl-oct-6-en-1-yl formate	105-85-1 203-338-9 - 01-2120132106-71	<0,01	Skin Irrit. 2; H315 Skin Sens. 1B; H317
	2-trans-3,7-dimethyl-2,6-octadienyl formate	105-86-2 105-85-1 906-078-0 - 01-2120139917-45	<0,01	Skin Sens. 1B; H317
	citral	5392-40-5 226-394-6 - 01-2119462829-23	<0,01	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317
	diphenyl ether	101-84-8 202-981-2 - 01-2119472545-33	<0,01	Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 3; H412
	isoeugenol	97-54-1 5932-68-3 202-590-7 - 01-2120223682-61	<0,01	Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1A; H317 STOT SE 3; H335
	Citric Acid	5949-29-1 201-069-1 01-2119457026-42	<0,01	Eye Irrit. 2, H319

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	Sodium benzoate	532-32-1 208-534-8 01-2119460683-35	<0,01	Eye Irrit. 2, H319
	Potassium sorbate	24634-61-5 246-376-1 01-2119950315-41	<0,01	Eye Irrit. 2, H319

*) The substance has specific concentration limits: Eye Dam. 1; H318: C ≥ 10%, Eye Irrit. 2; H319: 5% <C <10%
 **) Substance has specific concentration limits: classification for concentration ≥ 65,0%: Acute toxicity (oral), category 4, H302
 For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1	Description of first aid measures	<p>If you do not feel well after exposure or if the problem persists, seek medical attention. If unconscious, place in recovery position and get medical attention. Do not give anything by mouth when unconscious.</p> <table border="1" style="width: 100%;"> <tr> <td style="width: 25%;">Inhalation:</td> <td>Remove victim to fresh air, keep calm and warm. If the problem persists, see a doctor.</td> </tr> <tr> <td>Skin contact:</td> <td>In case of skin contact, wash immediately with plenty of water. Wash contaminated clothing before reuse. Seek medical attention if irritation persists.</td> </tr> <tr> <td>Eye contact:</td> <td>Immediately flush eyes with plenty of water for at least 15 minutes. Do not rinse with a strong stream of water - risk of corneal injury. Get medical attention if problems occur.</td> </tr> <tr> <td>Ingestion:</td> <td>Do not induce vomiting. Rinse mouth with water and drink 1-2 dl of water. Call a doctor immediately.</td> </tr> </table>	Inhalation:	Remove victim to fresh air, keep calm and warm. If the problem persists, see a doctor.	Skin contact:	In case of skin contact, wash immediately with plenty of water. Wash contaminated clothing before reuse. Seek medical attention if irritation persists.	Eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Do not rinse with a strong stream of water - risk of corneal injury. Get medical attention if problems occur.	Ingestion:	Do not induce vomiting. Rinse mouth with water and drink 1-2 dl of water. Call a doctor immediately.
Inhalation:	Remove victim to fresh air, keep calm and warm. If the problem persists, see a doctor.									
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Ingestion:	Do not induce vomiting. Rinse mouth with water and drink 1-2 dl of water. Call a doctor immediately.									
4.2	Most important symptoms and effects, both acute and delayed	The following symptoms may occur: After contact with eyes burning, tearing, redness.								
4.3	Indication of any immediate medical attention and special treatment needed	Special funds are not intended. Treatment is symptomatic.								

SECTION 5: Firefighting measures

5.1	Extinguishing media	<table border="1" style="width: 100%;"> <tr> <td style="width: 30%;">Suitable extinguishing media:</td> <td>CO₂, extinguishing powder, extinguishing foam, sand</td> </tr> <tr> <td>Unsuitable extinguishing media:</td> <td>Full stream of water</td> </tr> </table>	Suitable extinguishing media:	CO ₂ , extinguishing powder, extinguishing foam, sand	Unsuitable extinguishing media:	Full stream of water
Suitable extinguishing media:	CO ₂ , extinguishing powder, extinguishing foam, sand					
Unsuitable extinguishing media:	Full stream of water					
5.2	Special hazards arising from the substance or mixture	The mixture is not classified as flammable. In case of fire, carbon dioxide, carbon monoxide and other hazardous gases may be formed.				
5.3	Advice for firefighters	Use suitable respiratory protective device. Collect contaminated fire fighting water separately. It must not enter the sewage system.				

SECTION 6: Accidental release measures

6.1	Personal precautions, protective equipment and emergency procedures	Restrict unauthorized access to the accident area until the accident is rectified. Ensure adequate ventilation. Avoid contact with skin and eyes. Follow the rules and regulations of work safety when working with chemical products. Use personal protective equipment. Do not breathe vapors or aerosols.
6.2	Environmental precautions	Do not allow to enter sewers / surface or ground water. If the product leaks into water or sewage system inform appropriate authorities.
6.3	Methods and material for containment and cleaning up	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Keep in a suitable container and dispose of in accordance with local regulations.
6.4	Reference to other sections	Section 8 and 13.

SECTION 7: Handling and storage

7.1	Precautions for safe handling	Ensure good ventilation in the workplace. Avoid contact with skin and eyes. Do not breathe vapors / aerosols. Wash hands after use. For personal protection see section. 8. Do not drink, eat or smoke while using the product.
7.2	Conditions for safe storage, including any incompatibilities	

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Store in original, tightly closed containers in a well-ventilated, dry and cool place. Do not eat, drink or smoke in areas where the product is stored and used. Store at room temperature.

7.3 Specific end use(s)
liquid detergent

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
are not specified

Alcohols, C12-14, ethoxylated, sulphates, sodium salt CAS: 68891-38-3

DNEL

Workers Inhalation Systemic effects Long-term 175 mg / m3

Workers Dermal Systemic effects Long term 2750 mg / kg / day

Consumers Inhalation Systemic effects Long-term 52 mg / m3

Consumers Dermal Systemic effects Long term 1650 mg / kg / day

Consumers Oral Systemic effects Long-term 15 mg / kg / day

PNEC

Fresh water Sea water Intermittent release Wastewater treatment plants (WWTP) Freshwater sediment Sea sediment Soil Food chain

0.24 mg / l 0.024 mg / l 0.071 mg / l 10 g / l 0.9168 mg / kg 0.09168 mg / kg 7.5 mg / kg no effect

Benzenesulfonic acid, C10-13-alkyl derivative, sodium salt CAS: 68411-30-3

DNEL

Field of application Route of administration Effect Exposure time Value

Workers Inhalation Systemic effects Long-term 6 mg / m3

Workers Inhalation Local effects Long-term 6 mg / m3

Workers Dermal Systemic effects Long-term 85 mg / kg / day

Consumers Inhalation Systemic effects Long-term 1.5 mg / m3

Consumers Inhalation Local effects Long-term 1.5 mg / m3

Consumers Dermal Systemic effects Long-term 42.5 mg / kg / day

Consumers Oral Systemic effects Long term 0.425 mg / kg / day

PNEC

Fresh water Sea water Sewage treatment plants (WWTP) Freshwater sediment Sea sediment Soil Food chain

0.268 mg / l 0.027 mg / l 3.43 mg / l 8.1 mg / kg 6.8 mg / kg 35 mg / kg no effect

2-Phenoxyethan-1-ol CAS: 122-99-6

DNEL

Field of application Route of administration Effect Exposure time Value

Workers Inhalation Systemic effects Long term 8.07 mg / m3

Workers Inhalation Local effects Long term 8.07 mg / m3

Workers Dermal Systemic effects Long term 20.83 mg / kg / day

Consumers Inhalation Systemic effects Long-term 2.41 mg / m3

Consumers Inhalation Local effects Long-term 2.41 mg / m3

Consumers Dermal Systemic effects Long term 10.42 mg / kg / day

Consumers Oral Systemic effects Long term 9.23 mg / kg / day

Consumers Oral Systemic effects Acute / short-term 9.23 mg / kg / day

PNEC

Fresh water Sea water Wastewater treatment plants (WWTP) Freshwater sediment Sea sediment Air Soil Food chain

0.943 mg / l 0.094 mg / l 24.8 mg / l 7.237 mg / kg 0.724 mg / kg not determined 1.26 mg / kg no effect

Citric acid CAS: 77-92-9

DNEL - not available

PNEC

Fresh water Sea water Sewage treatment plants (WWTP) Freshwater sediment Sea sediment Soil Food chain

0.013 mg / l 0.001 mg / l 3,000 mg / l 1 mg / kg 0.1 mg / kg 0.8 mg / kg no effect

8.2 Exposure controls

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Ensure adequate ventilation. After work, wash your hands thoroughly with water. Do not eat, drink or smoke while working.

The monitoring procedure for the content of substances in the air of workplaces and the specifications of protective equipment are determined by the worker responsible for occupational safety and health protection.

Individual protection measures, such as personal protective equipment

Respiratory protection:	Not necessary if concentration limits are observed (organic vapor respirator). In the event of an accident or fire, wear self-contained breathing apparatus.
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Eye protection:	Wear safety goggles if there is a risk of eye contact
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Hand protection:	Wear protective gloves if there is a risk of skin contact
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Skin protection:	Protective clothing and footwear
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Thermal hazard:	It's not
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Environmental exposure controls

Prevent leakage to the sewage system, surface waters, underground waters and soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Information is not available
Odour	Information is not available
Melting point/freezing point (°C):	Information is not available
Boiling point or initial boiling point and boiling range (°C):	Information is not available
Flammability	Information is not available
Lower and upper explosion limit	Information is not available
Flash point (°C):	Information is not available
Auto-ignition temperature	Information is not available
Decomposition temperature	Information is not available
pH	Information is not available
Kinematic viscosity	Information is not available
Solubility	Information is not available
Partition coefficient n-octanol/water (log value)	Information is not available
Vapour pressure	Information is not available
Density and/or relative density	Information is not available
Relative vapour density	Information is not available
Particle characteristics	Information is not available

9.2 Other information

Information is not available

SECTION 10: Stability and reactivity

10.1 Reactivity

The product is not reactive under normal conditions.

10.2 Chemical stability

The mixture is stable under normal ambient conditions and anticipated temperature and pressure conditions during storage and handling.

10.3 Possibility of hazardous reactions

They are not known.

10.4 Conditions to avoid

Protect from frost.

10.5 Incompatible materials

Strong oxidizing agents, strong acids and bases.

10.6 Hazardous decomposition products

They do not arise spontaneously.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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a) Acute toxicity

Based on available data, the classification criteria are not met.
- LD50 oral, rat (mg / kg) data for mixture not available
48 348 (calculation according to additive formula)
4 100 - CAS 68891-38-3
1 080 - CAS 68411-30-3
1850 - 2-phenoxyethan-1-ol
11 700 - citric acid
- LD50 dermal, rat or rabbit (mg / kg) data are not available for the mixture
> 2,000 (estimated)
> 2,000 - CAS 68891-38-3 (rat)
> 2,000 - CAS 68411-30-3 (rat)
14 391 - 2-phenoxyethan-1-ol (rat)
> 2,000 - citric acid (rat)
- LC50 by inhalation, rat, (mg / l, 4h) No data available for the mixture

b) Skin corrosion/irritation

Based on available data, the classification criteria are not met.
Irritating to skin - mean erythema score = 2.89 and mean edema score = 2.33 - CAS 68891-38-3 (rabbit, OECD 404)
Irritating to skin - CAS 68411-30-3 (rabbit, OECD 404)
not irritating - mean scores of erythema = 0.1 and edema = 0 - 2-phenoxyethan-1-ol (OECD 404, rabbit)
slight skin irritation - citric acid

c) Serious eye damage/irritation

Causes serious eye irritation.
Serious eye damage - CAS 68411-30-3 (rabbit, OECD 405)
eye irritant - 2-phenoxyethan-1-ol (OECD 405, rabbit)
irritating to eyes - citric acid

d) Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.
not sensitizing - CAS 68891-38-3 (guinea pig, maximization test)
not sensitizing - CAS 68411-30-3 (guinea pig, OECD 406)
not sensitizing - 2-phenoxyethan-1-ol (guinea pig, maximization test)

e) Germ cell mutagenicity

Based on available data, the classification criteria are not met.
CAS 68891-38-3 - negative (OECD 471)
CAS 68411-30-3 - negative (EU Method B.13 / 14)
2-phenoxyethan-1-ol - negative (OECD 476)
citric acid - negative (OECD 471)

f) Carcinogenicity

Based on available data, the classification criteria are not met.
NOAEL = 249 mg / kg - 2-phenoxyethan-1-ol (rat, OECD 451)

g) Reproductive toxicity

Based on available data, the classification criteria are not met.
NOAEL > 300 mg / kg - CAS 68891-38-3 (rat, oral)
NOAEL = 350 mg / kg - CAS 68411-30-3 (rat, oral)
NOAEL = approx. 375 mg / kg - 2-phenoxyethan-1-ol (mouse, oral)

h) STOT-single exposure

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

i) STOT-repeated exposure

Based on available data, the classification criteria are not met.
NOAEL > 225 mg / kg, target organs: liver - CAS 68891-38-3 (rat, oral, 90 d)
NOAEL = 125 mg / kg - CAS 68411-30-3 (rat, oral)
LOAEL = 250 mg / kg - CAS 68411-30-3 (rat, oral)
NOAEL = 376 mg / kg - 2-phenoxyethan-1-ol (rat, oral)
NOAEL = 500 mg / kg - 2-phenoxyethan-1-ol (rabbit, dermal)
NOAEC = 48.2 mg / kg - 2-phenoxyethan-1-ol (rat, inhalation, aerosol, 6 h)

j) Aspiration hazard

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

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Other information: Information is not available

SECTION 12: Ecological information

12.1 Toxicity

The mixture is not classified as dangerous for aquatic organisms.

Fish data for the mixture are not available

LC50, 96 h, Danio rerio: 7.1 mg / l - CAS 68891-38-3

NOEC, Leeciscus idus: 1-10 mg / l - CAS 68891-38-3

LC50, 96 hours, Large-finned sunflower (Lepomis macrochirus): 1.67 mg / l - 68411-30-3

NOEC, 196 d., Great Crested Grebe (Pimephales promelas): 0.63 mg / l - 68411-30-3

LC50, 96 hours, Great Crested Grebe (Pimephales promelas): 344 mg / l - 2-phenoxyethan-1-ol

NOEC, 34 d., Great Crested Grebe (Pimephales promelas): 23 mg / l - 2-phenoxyethan-1-ol

LC50, 96 hours, Red deer (Leuciscus idus): 440 - 760 mg / l - citric acid

Crustacean data for the mixture are not available

EC50, Daphnia Pulex: 7.4 mg / l - CAS 68891-38-3

EC50, 48 hours, Daphnia Magna: 36 mg / l - CAS 68891-38-3

NOEC, 21 d., Daphnia Magna: 0.1-1 mg / l - CAS 68891-38-3

EC50, 48 hours, Daphnia Magna: 2.9 mg / l - CAS 68411-30-3

NOEC, 21 d., Daphnia Magna: 1.18 mg / l - CAS 68411-30-3

EC50, 48 hours, Daphnia Magna:> 500 mg / l - 2-phenoxyethan-1-ol

NOEC, 21 d., Daphnia Magna: 9.43 mg / l - 2-phenoxyethan-1-ol

EC50, 72 hours, Daphnia Magna: approx. 120 mg / l - citric acid

Algae data for the mixture are not available

EC50, 72 hours, Green alga (Desmodesmus subspicatus): 27.7 mg / l - CAS 68891-38-3

EC50, 72 hours, Green alga (Desmodesmus subspicatus):> 10 - 100 mg / l - CAS 68891-38-3

NOEC, Algae: 0.95 mg / l - CAS 68891-38-3

EC50, 96 hours, Green alga (Pseudokirchnerella subcapitata): 29 mg / l - CAS 68411-30-3

NOEC, 96 hours, Green alga (Pseudokirchnerella subcapitata): 0.5 mg / l - CAS 68411-30-3

EC50, 72 hours, Green alga (Desmodesmus subspicatus):> 500 mg / l - 2-phenoxyethan-1-ol

NOEC, 72 hours, Green alga (Desmodesmus subspicatus):> 500 mg / l - 2-phenoxyethan-1-ol

Bacteria data for the mixture are not available

EC50, 16 hours, Bacteria (Pseudomonas putida):> 10 g / l - CAS 68891-38-3

EC10, Bacteria (Pseudomonas putida):> 10 g / l - CAS 68891-38-3

EC10, 17 hours, Bacteria (Pseudomonas putida): 320 g / l - 2-phenoxyethan-1-ol

Soil data for the mixture are not available

LC50, 14 d., Manure earthworm (Eisenia fetida):> 1,000 mg / kg soil - 2-phenoxyethan-1-ol

Plants data for the mixture are not available

EC50, 19 d., Brassica napus: 34 mg / kg soil - 2-phenoxyethan-1-ol

12.2 Persistence and degradability

Not determined for the mixture.

The surfactant (s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No. 1907/2006. 648/2004 on detergents.

CAS 68891-38-3: rapidly biodegradable:> 70% in 28 days (OECD 301 A)

CAS 68411-30-3: rapidly biodegradable: 85% in 29 days (CO2 evolution, OECD 301 B)

2-phenoxyethan-1-ol: rapidly biodegradable:> 90% in 15 days (loss of dissolved organic carbon, OECD 301 A),

98% in 3 days (loss of dissolved organic carbon, OECD 301 A)

citric acid: readily biodegradable: 97% in 28 days (OECD 301 B)

citric acid: readily biodegradable: 100% in 19 days (OECD 301 E)

Biological oxygen demand: 526 mg / g

Chemical oxygen demand: 728 mg / g

Theoretical oxygen demand: 0.75 g / g

12.3 Bioaccumulative potential

not determined for the mixture

CAS 68891-38-3: log Pow = -1.38

CAS 68411-30-3: log Pow = 1.4

2-phenoxyethan-1-ol: BCF = 0.349 (calculation)

2-phenoxyethan-1-ol: log Pow = 1.2 (23 ° C, pH = 5, 7, 9)

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12.4	Mobility in soil not determined for the mixture CAS 68891-38-3: Koc = 191 CAS 68411-30-3: the substance is mobile in soil 2-phenoxyethan-1-ol: log Koc = 1.6 citric acid: log Pow = -1.72								
12.5	Results of PBT and vPvB assessment The mixture is not rated as PBT or vPvB.								
12.6	Endocrine disrupting properties They are not.								
12.7	Other adverse effects Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Flushing large amounts into drains or watercourses can lead to an increase in pH, which will affect pH-sensitive ecosystems.								
SECTION 13: Disposal considerations									
13.1	Waste treatment methods								
	a) Suitable methods for removing the mixture and contaminated packaging: Hand over the marked waste for disposal to a specialized company authorized for this activity. Dispose of waste in accordance with the Waste Act. Perfectly cleaned packaging can be recycled. Possible waste code 20 01 29 * Detergents containing dangerous substances 15 01 02 Plastic packaging								
	b) Specify the physical/chemical properties that may affect waste treatment options information is not available								
	c) Discourage sewage disposal information is not available								
	d) Identify, where appropriate, any special precautions for any recommended waste treatment option information is not available								
SECTION 14: Transport information									
	The product is not dangerous for transport								
14.1	UN number or ID number: Not applicable								
14.2	UN proper shipping name								
	<table border="1" style="width: 100%;"> <tr> <td style="width: 30%;"><i>Ground transportation ADR</i></td> <td rowspan="4" style="text-align: center; vertical-align: middle;">Not restricted</td> </tr> <tr> <td><i>Railway transportation RID</i></td> </tr> <tr> <td><i>Naval transport IMDG:</i></td> </tr> <tr> <td><i>Air transport ICAO/IATA:</i></td> </tr> </table>	<i>Ground transportation ADR</i>	Not restricted	<i>Railway transportation RID</i>	<i>Naval transport IMDG:</i>	<i>Air transport ICAO/IATA:</i>			
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<i>Railway transportation RID</i>									
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<i>Air transport ICAO/IATA:</i>									
14.3	Transport hazard class(es)								
	<table border="1" style="width: 100%;"> <tr> <td style="width: 25%; text-align: center;"><i>ADR</i></td> <td style="width: 25%; text-align: center;"><i>RID</i></td> <td style="width: 25%; text-align: center;"><i>IMDG:</i></td> <td style="width: 25%; text-align: center;"><i>ICAO/IATA:</i></td> </tr> <tr> <td style="text-align: center;">Not applicable</td> <td style="text-align: center;">Not applicable</td> <td style="text-align: center;">Not applicable</td> <td style="text-align: center;">Not applicable</td> </tr> </table>	<i>ADR</i>	<i>RID</i>	<i>IMDG:</i>	<i>ICAO/IATA:</i>	Not applicable	Not applicable	Not applicable	Not applicable
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Not applicable	Not applicable	Not applicable	Not applicable						
14.4	Packing group								
	<table border="1" style="width: 100%;"> <tr> <td style="width: 25%; text-align: center;"><i>ADR</i></td> <td style="width: 25%; text-align: center;"><i>RID</i></td> <td style="width: 25%; text-align: center;"><i>IMDG:</i></td> <td style="width: 25%; text-align: center;"><i>ICAO/IATA:</i></td> </tr> <tr> <td style="text-align: center;">Not applicable</td> <td style="text-align: center;">Not applicable</td> <td style="text-align: center;">Not applicable</td> <td style="text-align: center;">Not applicable</td> </tr> </table>	<i>ADR</i>	<i>RID</i>	<i>IMDG:</i>	<i>ICAO/IATA:</i>	Not applicable	Not applicable	Not applicable	Not applicable
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Not applicable	Not applicable	Not applicable	Not applicable						
14.5	Environmental hazards Mixture is not hazardous to the environment during transport.								
14.6	Special precautions for user Not applicable								
14.7	Maritime transport in bulk according to IMO instruments Information is not available								
SECTION 15: Regulatory information									
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture Regulation (EC) No 1907/2006 (REACH) Regulation (EC) No 1272/2008 (CLP) Commission Regulation (EU) 2020/878								
15.2	Chemical safety assessment								

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Chemical safety assessment for the substance has not been carried out by the producer.

SECTION 16: Other information

a)	21.09.2021 - general update of the safety data sheet according to Regulation (EC) No. 878/2020 of the European Parliament and of the Council and according to Regulation (EC) No. 1272/2008 of the European Parliament and of the Council, change product name																																																
b)	List of abbreviations																																																
	<table border="1"> <tr><td>DNEL</td><td>Derived No Effect Level</td></tr> <tr><td>PNEC</td><td>Predicted No Effect Concentration</td></tr> <tr><td>CLP</td><td>Regulation (EC) No 1272/2008</td></tr> <tr><td>REACH</td><td>Regulation (EC) No 1907/2006</td></tr> <tr><td>IMDG</td><td>International Code of Dangerous Goods</td></tr> <tr><td>IATA</td><td>International Air Transport Association</td></tr> <tr><td>ICAO</td><td>International Civil Aviation Organization</td></tr> <tr><td>ADR</td><td>European Agreement concerning the International Carriage of Dangerous Goods by Road</td></tr> <tr><td>RID</td><td>Regulation on the international transport of dangerous goods by rail</td></tr> <tr><td>Einecs</td><td>European Inventory of Existing Commercial Chemical Substances</td></tr> <tr><td>CAS</td><td>Chemical Abstracts Service</td></tr> <tr><td>PBT</td><td>persistent, bioaccumulative and toxic substance</td></tr> <tr><td>vPvB</td><td>very persistent a very bioaccumulation substance</td></tr> <tr><td>SDS</td><td>Safety data sheet</td></tr> <tr><td>Flam. Liq. 3</td><td>Flammable liquids, category 3</td></tr> <tr><td>Asp. Tox. 1</td><td>Inhalation hazard, category 1</td></tr> <tr><td>Acute Tox. 4</td><td>Acute toxicity (oral, dermal, inhalation), category 4</td></tr> <tr><td>Eye Dam. 1</td><td>Serious eye damage / eye irritation, category 1</td></tr> <tr><td>Eye Irrit. 2</td><td>Serious eye damage / eye irritation, category 2</td></tr> <tr><td>Skin Irrit. 2</td><td>Skin corrosion / irritation, category 2</td></tr> <tr><td>Skin Sens. 1, 1B</td><td>Skin sensitization, category 1, 1B</td></tr> <tr><td>STOT SE 3</td><td>Specific target organs toxicity — single exposure, category 3, respiratory irritation</td></tr> <tr><td>Aquatic Acute 1</td><td>Hazardous to the aquatic environment - acute, category 1</td></tr> <tr><td>Aquatic Chronic 1,2,3</td><td>Hazardous to the aquatic environment - chronic, category 1, 2, 3</td></tr> </table>	DNEL	Derived No Effect Level	PNEC	Predicted No Effect Concentration	CLP	Regulation (EC) No 1272/2008	REACH	Regulation (EC) No 1907/2006	IMDG	International Code of Dangerous Goods	IATA	International Air Transport Association	ICAO	International Civil Aviation Organization	ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	RID	Regulation on the international transport of dangerous goods by rail	Einecs	European Inventory of Existing Commercial Chemical Substances	CAS	Chemical Abstracts Service	PBT	persistent, bioaccumulative and toxic substance	vPvB	very persistent a very bioaccumulation substance	SDS	Safety data sheet	Flam. Liq. 3	Flammable liquids, category 3	Asp. Tox. 1	Inhalation hazard, category 1	Acute Tox. 4	Acute toxicity (oral, dermal, inhalation), category 4	Eye Dam. 1	Serious eye damage / eye irritation, category 1	Eye Irrit. 2	Serious eye damage / eye irritation, category 2	Skin Irrit. 2	Skin corrosion / irritation, category 2	Skin Sens. 1, 1B	Skin sensitization, category 1, 1B	STOT SE 3	Specific target organs toxicity — single exposure, category 3, respiratory irritation	Aquatic Acute 1	Hazardous to the aquatic environment - acute, category 1	Aquatic Chronic 1,2,3	Hazardous to the aquatic environment - chronic, category 1, 2, 3
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c)	Sources of information State legislation, professional literature, ECHA website, safety data sheets of components The classification of the mixture was performed by the manufacturer according to the classification rules EC 1272/2008 - according to the additive formula, general and specific concentration limits																																																
d)	List of hazard statements: H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. 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.																																																
e)	Instructions for training Training of work safety for handling with chemicals.																																																
f)	Other information																																																

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	<p>The information in this safety data sheet correspond to the best knowledge of the product at the time of publication. This information is used for safer handling, storage, transportation and disposal of the product. This information does not guarantee the quality of the product. This information applies only to this material and is not valid if the product is used in combination with other materials or in a way which is not listed in this SDS.</p>
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