


Page 1 / 10	SAFETY DATA SHEET by regulation (EC) No 1907/2006 REACH 02 DISH SOAP	Date of issue: 15.10.2021 Version: 1.0
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifier	
	Name:	02 DISH SOAP
	UFI code:	2F00-X0Q4-500C-48C2
	Registration number:	does not have – mixture
1.2	Relevant identified uses of the substance or mixture and uses advised against	
	Identified uses:	dishwashing liquid
	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:	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. P280 Wear protective gloves/protective clothing/eye protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. 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.	
Additional information:	EUH208 Contains 3,7-dimethyloctan-3-ol. May produce an allergic reaction.	
Marking according to EC 648/2004:	≥ 5 - <15% anionic surfactant, <5% amphoteric surfactant, preservative (2-phenoxyethan-1-ol) and perfume.	
2.3	Other hazards	
	The mixture is not assessed as PBT or vPvB.	

SECTION 3: Composition/information on ingredients

Page 2 / 10	SAFETY DATA SHEET by regulation (EC) No 1907/2006 REACH 02 DISH SOAP	Date of issue: 15.10.2021 Version: 1.0
-------------	--	---

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		
	Sulfonic acids, C14 - 16 (even) - alkane hydroxy and C14 - 16 (even) - alkene, sodium salts **	- 931-534-0 - 01-2119513401-57	≤2,0
	Skin Irrit. 2, H315 Eye Dam. 1, H318		
	Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salt	68411-30-3 270-115-0 - 01-2119489428-22	≤2,0
	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		
	1-Propanaminium, 3-amino-N-(carboxymethyl)-N, N-dimethyl-, N-C8-18 acyl derivatives, hydroxides, inert salt ***	- 931-296-8 - 01-2119488533-30	<1,0
	Eye Dam. 1, H318 Aquatic Chronic 3, H412		
	glycerol	56-81-5 200-289-5 - -	≤0,2
	The substance is not classified as dangerous		
	3,7-dimethyloctan-3-ol	78-69-3 201-133-9 - 01-2119454788-21	<0,14
	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317		
	tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	63500-71-0 405-040-6 - 01-0000015458-64	<0,07
	Eye Irrit. 2; H319		
	3-methyl-5-phenylpentanol	55066-48-3 259-461-3 - 01-2119969446-23	<0,07
	Acute Tox. 4; H302		
	Cyclohexyl 2-hydroxybenzoate	25485-88-5 400-410-3 - 01-2119900141-60	<0,07
	Aquatic Chronic 2; H411		
	3,7-dimethylnona-1,6-dien-3-ol (cis & trans)	10339-55-6 233-732-6 - 01-2119969272-32	<0,035
	Skin Irrit. 2; H315 Eye Irrit. 2; H319		
	cis-4-(isopropyl)cyclohexanemethanol	13828-37-0 5502-75-0 939-719-8 - 01-2119983532-32	<0,035
	Skin Irrit. 2; H315 Skin Sens. 1B; H317		

SAFETY DATA SHEET by regulation (EC) No 1907/2006 REACH	Date of issue: 15.10.2021
02 DISH SOAP	Version: 1.0

Page 3 / 10

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
3,7-Dimethyl-2,6-octadien-1-yl acetate(cis & trans isomers)	141-12-8 205-459-2 - 01-2120748334-54	<0,02	Skin Sens. 1B; H317
cyclohexylidene-o-tolyl-acetonitrile	916887-53-1 482-300-5 - 01-0000020170-87	<0,02	Skin Sens. 1; H317 STOT RE 2; H373 Aquatic Chronic 2; H411
Citric Acid	5949-29-1 201-069-1 01-2119457026-42	<0,01	Eye Irrit. 2, H319
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: Eye Dam. 1; H318: C > 38%, Eye Irrit. 2; H319: 5% <C ≤ 38%, Skin Irrit. 2; H315: C ≥ 5%

****) Substance has specific concentration limits: Eye Dam. 1; H318: C > 10%, Eye Irrit. 2; H319: 4% <C ≤ 10%

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
	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.
	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.
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
	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

Page 4 / 10	SAFETY DATA SHEET by regulation (EC) No 1907/2006 REACH 02 DISH SOAP	Date of issue: 15.10.2021 Version: 1.0
-------------	--	---

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**
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)**
Detergent for dishes.

SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters**
exposure limits are not set
- 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
Sulfuric acid, C14-16-hydroxyalkane and C14-16-alkene, sodium salt ES: 931-534-0
DNEL
Field of application Route of administration Effect Exposure time Value
Workers Inhalation Systemic effects Long term 152.22 mg / m3
Workers Dermal Systemic effects Long-term 2 158.33 mg / kg / day
Consumers Inhalation Systemic effects Long term 45.04 mg / m3
Consumers Dermal Systemic effects Long term 1,295 mg / kg / day
Consumers Oral Systemic effects Long-term 12.95 mg / kg / day
PNEC
Fresh water Sea water Intermittent release Wastewater treatment plants (WWTP) Freshwater sediment Sea sediment Soil Food chain
0.024 mg / l 0.002 mg / l 0.02 mg / l 4 mg / l 0.767 mg / kg 0.077 mg / kg 1.21 mg / kg none 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

Page 5 / 10	SAFETY DATA SHEET by regulation (EC) No 1907/2006 REACH 02 DISH SOAP	Date of issue: 15.10.2021 Version: 1.0
-------------	--	---

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
 1-Propanaminium, 3-amino-N- (carboxymethyl) -N, N-dimethyl-, N-C8-18 acyl derivative, hydroxides, inert salt
 ES: 931-296-8
 DNEL
 Field of application Route of administration Effect Exposure time Value
 Workers Inhalation Systemic effects Long-term 44 mg / m³
 Workers Dermal Systemic effects Long-term 12.5 mg / kg / day
 Consumers Dermal Systemic effects Long-term 7.5 mg / kg / day
 Consumers Oral Systemic effects Long-term 7.5 mg / kg / day
 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 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										
	<table border="1" style="width: 100%;"> <tr> <td style="width: 25%;">Respiratory protection:</td> <td>Not necessary if concentration limits are observed (organic vapor respirator). In the event of an accident or fire, wear self-contained breathing apparatus.</td> </tr> <tr> <td>Eye protection:</td> <td>Wear safety goggles if there is a risk of eye contact</td> </tr> <tr> <td>Hand protection:</td> <td>Safety gloves</td> </tr> <tr> <td>Skin protection:</td> <td>Protective clothing and footwear</td> </tr> <tr> <td>Thermal hazard:</td> <td>It's not</td> </tr> </table>	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.	Eye protection:	Wear safety goggles if there is a risk of eye contact	Hand protection:	Safety gloves	Skin protection:	Protective clothing and footwear	Thermal hazard:	It's not
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.										
Eye protection:	Wear safety goggles if there is a risk of eye contact										
Hand protection:	Safety gloves										
Skin protection:	Protective clothing and footwear										
Thermal hazard:	It's not										
	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

Page 6 / 10	SAFETY DATA SHEET by regulation (EC) No 1907/2006 REACH 02 DISH SOAP	Date of issue: 15.10.2021 Version: 1.0
-------------	--	---

	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	
	a) Acute toxicity	Based on available data, the classification criteria are not met. - LD50 oral, rat (mg / kg) data for mixture not available 64 142 (calculation according to an additive formula) 4 100 - CAS 68891-38-3 2 079 - ES 931-534-0 1 080 - CAS 68411-30-3 1850 - 2-phenoxyethan-1-ol 2 335 - ES 931-296-8 - LD50 dermal, rat or rabbit (mg / kg) data are not available for the mixture > 2,000 (estimated) > 2,000 - CAS 68891-38-3 (rat) 6 300 - ES 931-534-0 (rabbit) > 2,000 - CAS 68411-30-3 (rat) 14 391 - 2-phenoxyethan-1-ol (rat) > 2,000 - ES 931-296-8 (rat) - LC50 by inhalation, rat, (mg / l, 4h) No data available for the mixture > 52 - ES 931-534-0 (aerosol)
	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 - ES 931-534-0 (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) not irritating - average score of erythema = 0 and edema = 0 - ES 931-296-8 (OECD 404, rabbit)

SAFETY DATA SHEET
by regulation (EC) No 1907/2006 REACH

Date of issue: 15.10.2021

Page 7 / 10

02 DISH SOAP

Version: 1.0

- c) Serious eye damage/irritation**
Causes serious eye irritation.
Serious eye damage - ES 931-534-0 (rabbit, OECD 405)
Serious eye damage - CAS 68411-30-3 (rabbit, OECD 405)
eye irritant - 2-phenoxyethan-1-ol (OECD 405, rabbit)
Irreversible effects on the eye - Substance classified as seriously damaging to the eyes - ES 931-296-8
- d) Respiratory or skin sensitisation**
Based on available data, the classification criteria are not met.
Contains 3,7-dimethyloctan-3-ol. May produce an allergic reaction.
not sensitizing - CAS 68891-38-3 (guinea pig, maximization test)
not sensitizing - ES 931-534-0 (guinea pig, OECD 406)
not sensitizing - CAS 68411-30-3 (guinea pig, OECD 406)
not sensitizing - 2-phenoxyethan-1-ol (guinea pig, maximization test)
not sensitizing - ES 931-296-8 (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)
ES 931-534-0 - negative (OECD 476)
CAS 68411-30-3 - negative (EU Method B.13 / 14)
2-phenoxyethan-1-ol - negative (OECD 476)
ES 931-296-8 - negative (mouse lymphoma L5178Y cells)
- f) Carcinogenicity**
Based on available data, the classification criteria are not met.
NOAEL \geq 195 mg / kg - ES 931-534-0 (rat - male)
NOAEL \geq 259 mg / kg - ES 931-534-0 (rat - female)
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 \geq 195 mg / kg - ES 931-534-0 (rat - male, oral)
NOAEL \geq 259 mg / kg - ES 931-534-0 (rat - female, oral)
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)
NOEL = 75 mg / kg - ES 931-296-8
LOEL = 150 mg / kg - ES 931-296-8
- j) Aspiration hazard**
Based on available data, the classification criteria are not met.
- Other information: Information is not available

SECTION 12: Ecological information

12.1 Toxicity

The mixture is not classified as dangerous to 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 h, Danio rerio: 4.2 mg / l - ES 931-534-0

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

SAFETY DATA SHEET
by regulation (EC) No 1907/2006 REACH

Date of issue: 15.10.2021

Page 8 / 10

02 DISH SOAP

Version: 1.0

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, Great Crested Grebe (*Pimephales promelas*): 1.1 mg / l - ES 931-296-8
NOEC, 37 d., Rainbow trout (*Oncorhynchus mykiss*): 0.135 mg / l - ES 931-296-8
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, *Ceriodaphnia* sp.: 4.53 mg / l - ES 931-534-0
NOEC, 21 d., *Daphnia Magna*: 6.3 mg / l - ES 931-534-0
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, 48 hours, *Daphnia Magna*: 6.5 mg / l - ES 931-296-8
NOEC, 21 d., *Daphnia Magna*: 0.932 mg / l - ES 931-296-8
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, 72 hours, Seaweed (*Skeletonema costatum*): 5.2 mg / l - ES 931-534-0
EC10, 72 hours, Seaweed (*Skeletonema costatum*): 3.9 mg / l - ES 931-534-0
NOEC, 72 hours, Seaweed (*Skeletonema costatum*): 3.2 mg / l - ES 931-534-0
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
EC50, 72 hours, Green alga (*Desmodesmus subspicatus*): approx. 14.7 mg / l - ES 931-296-8
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)

ES 931-534-0: rapidly biodegradable: 80% in 28 days (CO₂ evolution, OECD 301 B), 96% in 28 days (loss of dissolved organic carbon, OECD 301 B)

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)

ES 931-296-8: rapidly biodegradable: 87.2% in 28 days (CO₂ evolution, EPA OPPTS 835.3120 (Sealed Vessel Carbon Dioxide Production Test))

12.3 Bioaccumulative potential

not determined for the mixture

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

ES 931-534-0: BCF = 70.8

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)

ES 931-296-8: BCF = 3 (C₈ derivatives), BCF = 71 (C₁₀-C₁₈ and C₁₈ unsaturated derivatives)

Page 9 / 10	SAFETY DATA SHEET by regulation (EC) No 1907/2006 REACH 02 DISH SOAP	Date of issue: 15.10.2021 Version: 1.0
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12.4	Mobility in soil not determined for the mixture CAS 68891-38-3: Koc = 191 ES 931-534-0: Koc = 1.607 CAS 68411-30-3: the substance is mobile in soil 2-phenoxyethan-1-ol: log Koc = 1.6 ES 931-296-8: Koc = approx. 320 (C12 derivatives)
12.5	Results of PBT and vPvB assessment The substance is not assessed 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			
	<i>Ground transportation ADR</i>	Not restricted		
	<i>Railway transportation RID</i>			
	<i>Naval transport IMDG:</i>			
	<i>Air transport ICAO/IATA:</i>			
14.3	Transport hazard class(es)			
	<i>ADR</i>	<i>RID</i>	<i>IMDG:</i>	<i>ICAO/IATA:</i>
	Not applicable	Not applicable	Not applicable	Not applicable
14.4	Packing group			
	<i>ADR</i>	<i>RID</i>	<i>IMDG:</i>	<i>ICAO/IATA:</i>
	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
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SAFETY DATA SHEET by regulation (EC) No 1907/2006 REACH	Date of issue: 15.10.2021 Version: 1.0
02 DISH SOAP	
Page 10 / 10	

Regulation (EC) No 1907/2006 (REACH)
 Regulation (EC) No 1272/2008 (CLP)
 Commission Regulation (EU) 2020/878

15.2 Chemical safety assessment

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																																										
b)	List of abbreviations																																										
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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: H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H373 May cause damage to organs through prolonged or repeated exposure. 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 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.																																										