

SAFETY DATA SHEET

according to Regulation No 1907/2006 of the European Parliament and of the Council, as subsequently amended

Date of issue: 21. 10. 2016

Product code: -

Version: 1.0

Date of revision: -

Replaced version from: -

Page: 1 z 15

Trade Name: **Dish Washer 1 I**

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

1.1 Product identifier

| | |
|---------------------|----------------------------------|
| Trade Name | Dish Washer 1 I |
| Mixture description | An aqueous surfactants solution. |

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

| | |
|----------------------|---------------------------|
| Identified uses | Dishwashing detergent. |
| Uses advised against | Only for identified uses. |

1.3 Details of the supplier of the safety data sheet

Humdakin
Estrupvej 1
8380 Trige
Denmark
telephone: +45 6014 1588
e-mail address for a competent person responsible for the SDS: info@humdakin.com

1.4 Emergency telephone number

112 (General emergency phone), 998 (fire brigade), 999 (ambulance service).

SECTION 2: Hazards identification

The mixture is classified as dangerous according to regulation 1272/2008/EC.

2.1 Classification of the substance or mixture

Classification according to 1272/2008/EC **Eye Irrit. 2; H319**
Aquatic Chronic 3; H412

Full text of classifications and H-phrases: see section 16.

The most important adverse physicochemical, human health and environmental effects

Causes serious eye irritation. May cause long lasting harmful effects to aquatic life.

2.2 Label elements

hazard pictograms



signal word Warning

components of the mixture to be placed on the label Not given

hazard statements
H319 - Causes serious eye irritation.
H412 - May cause long lasting harmful effects to aquatic life.

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precautionary statements

P273 - Avoid release to the environment.

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 in accordance with local regulation.

supplemental hazard information

EUH208 - Contains 1-(2,3,8,8-tetramethyl-1,2,3,4,5,6,7,8-octahydronaphthalen-2-yl)ethanone. May produce an allergic reaction.

Ingredients: ≥ 5 - < 15% anionic surfactants, < 5% amphoteric surfactants, preservation agents (2-phenoxyethanol) and perfumes.

2.3 Other hazards

Mixture or its components are not classified as PBT or vPvB, not the date of issue of the safety data sheet kept on the candidate list for Annex XIV of the REACH Regulation.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

3.2.1 Components of a mixture classified as hazardous

| <i>Chemical identity</i> | <i>CAS Number EC Number Index Number</i> | <i>Registration Number</i> | <i>Content (wt. %)</i> | <i>Classification 1272/2008/EC</i> |
|---|--|----------------------------|----------------------------|--|
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts* | 68891-38-3 500-234-8 not given | 01-2119488639-16-XXXX | 3.75 - 4.2 | Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412 |
| Sulfonic acids, C14-16 (even numbered)-alkane hydroxy and C14-16 (even numbered)-alkene, sodium salts** | not given 931-534-0 not given | 01-2119513401-57-XXXX | 1.9 - 2.0 | Skin Irrit. 2; H315 Eye Dam. 1; H318 |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts | 68411-30-3 270-115-0 not given | 01-2119489428-22-XXXX | 0.9 - 1.1 | Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412 |
| 2-Phenoxyethanol | 122-99-6 204-589-7 603-098-00-9 | 01-2119488943-21-XXXX | 1.0 | Acute Tox. 4; H302 Eye Irrit. 2; H319 |

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| | | | | |
|---|---------------------------------------|-----------------------|-------------|--|
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18(even numbered) acyl derivs., hydroxides, inner salts*** | not given 931-296-8 not given | 01-2119488533-30-XXXX | 0.8 - < 1.0 | Eye Dam. 1; H318 Aquatic Chronic 3; H412 |
| 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one | 54464-57-2 259-174-3 not given | not yet available | 0.2 | Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 1; H410 M(Chronic)=1 |
| Isopentyl acetate | 123-92-2 204-662-3 607-130-00-2 | not yet available | < 0.0008 | Flam. Liq. 3; H226 |
| n-Butyl acetate | 123-86-4 204-658-1 607-025-00-1 | not yet available | < 0.0008 | Flam. Liq. 3; H226 STOT SE 3; H336 |

*) The substance has a specific concentration limits: Eye Dam. 1; H318: C ≥ 10 %, Eye Irrit. 2; H319: 5 % < C < 10 %

**) The substance has a specific concentration limits: Eye Dam. 1; H318: C > 38 %, Eye Irrit. 2; H319: 5 % < C ≤ 38 %, Skin Irrit. 2; H315: C ≥ 5 %

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

SECTION 4: First aid measures

In all cases keep the person at physical and mental rest and warm. In case of doubt or if symptoms persist, seek medical attention.

4.1 Description of first aid measures

Inhalation

Break the exposure, transfer the person to the fresh air, apply artificial respiration, if the person is not breathing.

Skin contact

Flush the affected area with plenty of water (preferably lukewarm), carefully remove the contaminated clothing as soon as possible and continue washing the affected skin.

Eye contact

Rinse with plenty of water for at least 15 minutes. Never neutralize! Move to the physician while continue rinsing.

Ingestion

Rinse out mouth with clean water, give 0,2 to 0,5 l water to drink, do not induce vomiting. Do not give milk or alcohol. Immediately call in physician. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Are not known.

4.3 Indication of any immediate medical attention and special treatment needed

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Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

The mixture is non-flammable. Extinguishing adapt flammable substances in the place of the fire.

Extinguishing media which shall not be used for safety reasons

Solid streams of water may be ineffective.

5.2 Special hazards arising from the substance or mixture

Fire water must be contained and prevented from being discharged to any waterway, sewer or drain.

In case of fires, hazardous combustion gases are formed: carbon oxides, sulphur oxides, nitrogen oxides and products of incomplete combustion.

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus and clothing protective against chemicals.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Do not allow to enter waters or soil. If this cannot be avoided, immediately inform the competent authorities (police and firefighters).

6.3 Methods and material for containment and cleaning up

Absorb spillage using an absorbent, such as earth, sand or vermiculite. Place in container for disposal according to local regulations (see section 13).

If the package is damaged, to move the content to the new package and correctly label.

6.4 Reference to other sections

Protective equipment: see section 8. Dispose according to the section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with eyes and skin. When using, do not eat, drink or smoke. Wash hands with warm water and soap before breaks and after work.

7.2 Conditions for safe storage, including any incompatibilities

Store in original tightly closed packing in dry and well-ventilated areas.

Store in original container at room temperature.

7.3 Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection

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8.1 Control parameters

8.1.1 Exposure limit value

Commission directive 2000/39/EC, as subsequently amended

Isopentyl acetate:

Limit values: Eight hours: 270 mg/m³, 50 ppm; Short-term: 540 mg/m³, 100 ppm.

Workplace exposure limit

UK

Isopentyl acetate:

Long-term exposure: 50 ppm (270 mg/m³)

Short-term exposure: 100 ppm (541 mg/m³)

n-Butyl acetate:

Long-term exposure: 150 ppm (724 mg/m³)

Short-term exposure: 200 ppm (966 mg/m³)

Czech republic

Isopentyl acetate:

PEL: 270 mg/m³, NPK-P: 540 mg/m³.

n-Butyl acetate:

PEL: 950 mg/m³, NPK-P: 1200 mg/m³.

PEL - Permissible Exposure Limit, long term (8 hours)

NPK-P - Highest permissible concentration, short-term limit

8.1.2 Biological limit values

Not are determined in EU

8.1.3 DNEL and PNEC values

Alcohols, C12-14, ethoxylated, sulfates, sodium salts

CAS: 68891-38-3

DNEL

| Area of use | Route of exposure | Effect | Exposure time | Value |
|--------------------|-------------------|-----------------|---------------|-----------------------|
| Workers | Inhalation | Systemic effect | Long term | 175 mg/m ³ |
| Workers | Dermal | Systemic effect | Long term | 2750 mg/kg/day |
| General population | Inhalation | Systemic effect | Long term | 52 mg/m ³ |
| General population | Dermal | Systemic effect | Long term | 1650 mg/kg/day |
| General population | Oral | Systemic effect | Long term | 15 mg/kg/day |

PNEC

| Fresh water | Marine water | Intermittent releases | STP | Sediment (freshwater) | Sediment (marine water) | Soil | Hazard for predators |
|-------------|--------------|-----------------------|--------|-----------------------|-------------------------|-----------|----------------------------------|
| 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 potential for bioaccumulation |

Sulfonic acids, C14-16 (even numbered)-alkane hydroxy and C14-16 (even numbered)-alkene, sodium salts

EC: 931-534-0

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DNEL

| Area of use | Route of exposure | Effect | Exposure time | Value |
|--------------------|-------------------|-----------------|---------------|--------------------------|
| Workers | Inhalation | Systemic effect | Long term | 152.22 mg/m ³ |
| Workers | Dermal | Systemic effect | Long term | 2 158.33 mg/kg/day |
| General population | Inhalation | Systemic effect | Long term | 45.04 mg/m ³ |
| General population | Dermal | Systemic effect | Long term | 1 295 mg/kg/day |
| General population | Oral | Systemic effect | Long term | 12.95 mg/kg/day |

PNEC

| Fresh water | Marine water | Intermittent releases | STP | Sediment (freshwater) | Sediment (marine water) | Air | Soil | Hazard for predators |
|-------------|--------------|-----------------------|--------|-----------------------|-------------------------|-----------|------------|----------------------------------|
| 0.024 mg/l | 0.002 mg/l | 0.02 mg/l | 4 mg/l | 0.767 mg/kg | 0.077 mg/kg | not given | 1.21 mg/kg | No potential for bioaccumulation |

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

CAS: 68411-30-3

DNEL

| Area of use | Route of exposure | Effect | Exposure time | Value |
|--------------------|-------------------|-----------------|---------------|-----------------------|
| Workers | Inhalation | Systemic effect | Long term | 6 mg/m ³ |
| Workers | Inhalation | Local effect | Long term | 6 mg/m ³ |
| Workers | Dermal | Systemic effect | Long term | 85 mg/kg/day |
| General population | Inhalation | Systemic effect | Long term | 1.5 mg/m ³ |
| General population | Inhalation | Local effect | Long term | 1.5 mg/m ³ |
| General population | Dermal | Systemic effect | Long term | 42.5 mg/kg/day |
| General population | Oral | Systemic effect | Long term | 0.425 mg/kg/day |

PNEC

| Fresh water | Marine water | Intermittent releases | STP | Sediment (freshwater) | Sediment (marine water) | Soil | Hazard for predators |
|-------------|--------------|-----------------------|--------|-----------------------|-------------------------|-----------|----------------------------------|
| 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 potential for bioaccumulation |

2-Phenoxyethanol

CAS: 122-99-6

DNEL

| Area of use | Route of exposure | Effect | Exposure time | Value |
|--------------------|-------------------|-----------------|---------------|------------------------|
| Workers | Inhalation | Systemic effect | Long term | 8.07 mg/m ³ |
| Workers | Inhalation | Local effect | Long term | 8.07 mg/m ³ |
| Workers | Dermal | Systemic effect | Long term | 20.83 mg/kg/day |
| General population | Inhalation | Systemic effect | Long term | 2.41 mg/m ³ |
| General population | Inhalation | Local effect | Long term | 2.41 mg/m ³ |
| General population | Dermal | Systemic effect | Long term | 10.42 mg/kg/day |
| General population | Oral | Systemic effect | Long term | 9.23 mg/kg/day |

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|--------------------|------|-----------------|------------------|----------------|
| General population | Oral | Systemic effect | Acute/short term | 9.23 mg/kg/day |
|--------------------|------|-----------------|------------------|----------------|

PNEC

| Fresh water | Marine water | Intermittent releases | STP | Sediment (freshwater) | Sediment (marine water) | Air | Soil | Hazard for predators |
|-------------|--------------|-----------------------|-----------|-----------------------|-------------------------|-----------|------------|----------------------------------|
| 0.943 mg/l | 0.094 mg/l | not given | 24.8 mg/l | 7.237 mg/kg | 0.724 mg/kg | not given | 1.26 mg/kg | No potential for bioaccumulation |

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18(even numbered) acyl derivs., hydroxides, inner salts

EC: 931-296-8

DNEL

| Area of use | Route of exposure | Effect | Exposure time | Value |
|--------------------|-------------------|-----------------|---------------|----------------------|
| Workers | Inhalation | Systemic effect | Long term | 44 mg/m ³ |
| Workers | Dermal | Systemic effect | Long term | 12.5 mg/kg/day |
| General population | Dermal | Systemic effect | Long term | 7.5 mg/kg/day |
| General population | Oral | Systemic effect | Long term | 7.5 mg/kg/day |

PNEC

| Fresh water | Marine water | Intermittent releases | STP | Sediment (freshwater) | Sediment (marine water) | Soil | Hazard for predators |
|-------------|--------------|-----------------------|------------|-----------------------|-------------------------|-----------|----------------------------------|
| 0.013 mg/l | 0.001 mg/l | not given | 3 000 mg/l | 1 mg/kg | 0.1 mg/kg | 0.8 mg/kg | No potential for bioaccumulation |

8.2 Exposure controls

8.2.1 Exposure reduction (technical measures)

Use only in well-ventilated areas.

Observe usual safety precautions for working with chemicals. The degree of effectiveness of personal protective equipment depends on temperature and ventilation levels.

8.2.2 Individual protection measures, such as personal protective equipment

Respiratory protection

Not necessary in case of compliance with the concentration limits (if they were exceeded, use a respirator organic vapor). In case of an accident or fire use self-contained breathing apparatus.

Hand protection

Wear protective gloves.

Eye/face protection

Wear protective glasses.

Skin protection

Suitable protective clothing

8.2.3 Environmental exposure reduction

Uncontrolled escape of substance/formulation into environment is to be avoided.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|-----------------------------|-------------------|
| Appearance (at 20 C) | liquid, yellowish |
| Odour | not determined |
| Odour threshold | not determined |
| pH (at 20 C) | 5 - 7 |

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| | |
|---|---------------------------------|
| Melting point/freezing point | not determined |
| Boiling point (range) | not determined |
| Flash point | not determined |
| Evaporation rate | not determined |
| Flammability | not determined |
| Explosive limits | |
| lower (% vol.) | not determined |
| upper (% vol.) | not determined |
| Vapour pressure (20 C) | not determined |
| Vapour density | not determined |
| Relative density | not determined |
| Solubility in water (20 C) | not determined |
| Partition coefficient: n-octanol/water | not determined |
| Auto-ignition temperature | not determined |
| Decomposition temperature | not determined |
| Viscosity | not determined |
| Explosive properties | is not classified as explosive |
| Oxidising properties | is not classified as an oxidant |

9.2 Other information

not known

SECTION 10: Stability and reactivity

10.1 Reactivity

Under normal conditions the product is stable.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Not known.

10.4 Conditions to avoid

Do not freeze

10.5 Incompatible materials

Strong acids, strong base, strong oxidizing agents.

10.6 Hazardous decomposition products

Burning releases carbon oxides, sulphur oxides, nitrogen oxides and products of incomplete combustion.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

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- *LD₅₀ oral, rat (mg/kg)*

Data for the mixture are not available
64 142 - calculated according to values ATE
4 100 - CAS 68891-38-3
2 079 - EC 931-534-0
1 080 - CAS 68411-30-3
1 850 - 2-phenoxyethanol
2 335 - EC 931-296-8

- *LD₅₀ skin, rat or rabbit (mg/kg)*

Data for the mixture are not available
> 2 000 (estimate)
> 2 000 - CAS 68891-38-3 (rat)
6 300 - EC 931-534-0 (rabbit)
> 2 000 - CAS 68411-30-3 (rat)
14 391 - 2-phenoxyethanol (rat)
> 2 000 - EC 931-296-8 (rat)

- *LC₅₀ inhalation, rat (mg/l, 4 h)*

Data for the mixture are not available
> 52 - EC 931-534-0 (aerosol)

Skin corrosion/irritation

A slight effect, the classification criteria are not fulfilled
irritant - mean erythema score = 2.89 and mean oedema score = 2.33 - CAS 68891-38-3 (rabbit, OECD 404)
irritant - EC 931-534-0 (rabbit, OECD 404)
irritant - CAS 68411-30-3 (rabbit, OECD 404)
not irritant - mean erythema score = 0.1 and mean oedema score = 0 - 2-phenoxyethanol (OECD 404, rabbit)
not irritant - mean erythema score = 0 and mean oedema score = 0 - EC 931-296-8 (OECD 404, rabbit)

Serious eye damage/irritation

A slight effect, the classification criteria are not fulfilled
serious eye damage - EC 931-534-0 (rabbit, OECD 405)
serious eye damage - CAS 68411-30-3 (rabbit, OECD 405)
irritant - 2-phenoxyethanol (OECD 405, rabbit)
irreversible effect on the eyes - a substance classified as serious eye damage - EC 931-296-8

Respiratory or skin sensitisation

Not containing these substances (or less than the classification limit)
not sensitising - CAS 68891-38-3 (guinea pig, maximisation test)
not sensitising - EC 931-534-0 (guinea pig, OECD 406)
not sensitising - CAS 68411-30-3 (guinea pig, OECD 406)
not sensitising - 2-phenoxyethanol (guinea pig, maximisation test)
not sensitising - EC 931-296-8 (guinea pig, maximisation test)

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Carcinogenicity

Not containing these substances (or less than the classification limit)

NOAEL \geq 195 mg/kg - EC 931-534-0 (rat - male)

NOAEL \geq 259 mg/kg - EC 931-534-0 (rat - female)

NOAEL = 249 mg/kg - 2-phenoxyethanol (rat, OECD 451)

Germ cell mutagenicity

Not containing these substances (or less than the classification limit)

CAS 68891-38-3 - negative (OECD 471)

EC 931-534-0 - negative (OECD 476)

CAS 68411-30-3 - negative (EU Method B.13/14)

2-phenoxyethanol - negative (OECD 476)

EC 931-296-8 - negative (mouse lymphoma L5178Y cells)

Reproductive toxicity

Not containing these substances (or less than the classification limit)

NOAEL > 300 mg/kg - CAS 68891-38-3 (rat, oral)

NOAEL = 350 mg/kg - CAS 68411-30-3 (rat, oral)

NOAEL = ca. 375 mg/kg - 2-phenoxyethanol (mouse, oral)

Specific target organ toxicity – single exposure

Not classified

Specific target organ toxicity – repeated exposure

Not classified

NOAEL > 225 mg/kg, target organs: liver - CAS 68891-38-3 (rat, oral, 90 day)

NOAEL \geq 195 mg/kg - EC 931-534-0 (rat - male, oral)

NOAEL \geq 259 mg/kg - EC 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-phenoxyethanol (rat, oral)

NOAEL = 500 mg/kg 2-phenoxyethanol (rabbit, dermal)

NOAEC = 48.2 mg/kg - 2-phenoxyethanol (rat, inhalation, aerosol, 6 hrs)

NOEL = 75 mg/kg - EC 931-296-8

LOEL = 150 mg/kg - EC 931-296-8

Aspiration hazard

Not classified

Other information

See section 2 and 4.

SECTION 12: Ecological information

12.1 Toxicity

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Fish

Data for the mixture are not available

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

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

LC₅₀, 96 hrs., Danio rerio: 4.2 mg/l - EC 931-534-0

LC₅₀, 96 hrs., Lepomis macrochirus: 1.67 mg/l - CAS - 68411-30-3

NOEC, 196 days, Pimephales promelas: 0.63 mg/l - CAS - 68411-30-3

LC₅₀, 96 hrs., Pimephales promelas: 344 mg/l - 2-phenoxyethanol

NOEC, 34 days, Pimephales promelas: 23 mg/l - 2-phenoxyethanol

LC₅₀, 96 hrs., Pimephales promelas: 1.1 mg/l - EC 931-296-8

NOEC, 37 days, Oncorhynchus mykiss: 0.135 mg/l - EC 931-296-8

Daphnia

Data for the mixture are not available

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

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

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

EC₅₀, 48 hrs., Ceriodaphnia sp.: 4.53 mg/l - EC 931-534-0

NOEC, 21 days, Daphnia Magna: 6.3 mg/l - EC 931-534-0

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

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

EC₅₀, 48 hrs., Daphnia Magna: > 500 mg/l - 2-phenoxyethanol

NOEC, 21 days, Daphnia Magna: 9.43 mg/l - 2-phenoxyethanol

EC₅₀, 48 hrs., Daphnia Magna: 6.5 mg/l - EC 931-296-8

NOEC, 21 days, Daphnia Magna: 0.932 mg/l - EC 931-296-8

Algae

Data for the mixture are not available

EC₅₀, 72 hrs., Desmodesmus subspicatus: 27.7 mg/l - CAS 68891-38-3

EC₅₀, 72 hrs., Desmodesmus subspicatus: >10 - 100 mg/l - CAS 68891-38-3

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

EC₅₀, 72 hrs., Skeletonema costatum: 5.2 mg/l - EC 931-534-0

EC₁₀, 72 hrs., Skeletonema costatum: 3.9 mg/l - EC 931-534-0

NOEC, 72 hrs., Skeletonema costatum: 3.2 mg/l - EC 931-534-0

EC₅₀, 96 hrs., Pseudokirchnerella subcapitata: 29 mg/l - CAS 68411-30-3

NOEC, 96 hrs., Pseudokirchnerella subcapitata: 0.5 mg/l - CAS 68411-30-3

EC₅₀, 72 hrs., Desmodesmus subspicatus: > 500 mg/l - 2-phenoxyethanol

NOEC, 72 hrs., Desmodesmus subspicatus: > 500 mg/l - 2-phenoxyethanol

EC₅₀, 72 hrs., Desmodesmus subspicatus: ca. 14.7 mg/l - EC 931-296-8

Bacteria

Data for the mixture are not available

EC₅₀, 16 hrs., Pseudomonas putida: >10 g/l - CAS 68891-38-3

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

EC₁₀, 17 hrs., Pseudomonas putida: 320 g/l - 2-phenoxyethanol

Soil

Data for the mixture are not available

LC₅₀, 14 days, Eisenia fetida: > 1 000 mg/kg soil - 2-phenoxyethanol

Plant

Data for the mixture are not available

EC₅₀, 19 days, Brassica napus: 34 mg/kg soil - 2-phenoxyethanol

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12.2 Persistence and degradability

Data for the mixture are not available

The surfactants contained in this preparation in accordance with the biodegradability criteria according to Regulation (EC) No. 648/2004 on detergents.

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

EC 931-534-0: rapidly biodegradable: 80 % after 28 days (CO₂ evolution, OECD 301 B), 96 % after 28 days (DOC removal, OECD 301 B)

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

2-phenoxyethanol: rapidly biodegradable:> 90% after 15 days (DOC removal, OECD 301 A), 98% after 3 days (DOC removal, OECD 301 A)

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

12.3 Bioaccumulative potential

Data for the mixture are not available

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

EC 931-534-0: BCF = 70.8

CAS 68411-30-3: log Pow = 1.4

2-phenoxyethanol: BCF = 0.349 (calculation)

2-phenoxyethanol: log Pow = 1.2 (23 C, pH = 5, 7, 9)

EC 931-296-8: BCF = 3 (C₈ derivs.), BCF = 71 (C₁₀-C₁₈ a C₁₈ unsaturated derivs.)

12.4 Mobility in soil

Data for the mixture are not available

CAS 68891-38-3: Koc = 191

EC 931-534-0: Koc = 1.607

CAS 68411-30-3: substance is mobile in soil

2-phenoxyethanol: log Koc = 1.6

12.5 Results of PBT and vPvB assessment

Mixture or its components are not classified as a PBT or a vPvB.

12.6 Other adverse effects

no data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal methods of the substance or mixture and the contaminated packaging

Delete according to the applicable European and local regulations (eg. In a hazardous waste incinerator). Never remove flushing into sewer! Do not contaminate ponds or ditches with chemical or used container. Residual amounts and solutions to a licensed disposal company.

For classifying the waste and the removal of waste producer responsibility.

Possible waste code 20 01 29* - detergents containing dangerous substances

Physical/chemical properties that may affect waste treatment options

None known.

Special precautions recommended for waste management

None known.

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Waste legislation

Directive 2008/98/EC

SECTION 14: Transport information

This product is not classified as a dangerous for transportation (ADR/RID, IMDG, ICAO/IATA).

14.1 UN number

not given

14.2 UN proper shipping name

- ADR/RID/IMDG/IATA not given

14.3 Transport hazard class(es)

not given

14.4 Packing group

not given

14.5 Environmental hazards

it is not dangerous for the environment during transport

14.6 Special precautions for user

not given

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

not available

ADR/RID

| | |
|------------------------------|-----------|
| - classification code | not given |
| - labels | not given |
| - hazard identification code | not given |
| - tunnel restriction code | not given |

IMDG

| | |
|-----------------------------|-----------|
| - Emergency Schedules (EmS) | not given |
|-----------------------------|-----------|

SECTION 15: Regulatory information

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

Regulation No. 1907/2006/ES, REACH.

Regulation No. 1272/2008/ES, CLP.

15.2 Chemical safety assessment

Not performed for the mixture.

SECTION 16: Other information

Reason for alteration

First edition.

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Key or legend to abbreviations and acronyms used in the safety data sheet

| | |
|-------------------|--|
| Acute Tox. 4 | Acute toxicity, cat. 4 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment, cat. 1 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment, cat. 3 |
| Eye Dam. 1 | Serious eye damage, cat. 1 |
| Eye Irrit. 2 | Eye irritation, cat. 2 |
| Flam. Liq. 3 | Flammable liquid, cat. 3 |
| Skin Irrit. 2 | Skin irritation, cat. 3 |
| Skin Sens. 1 | Skin sensitization, cat. 2 |
| STOT SE 3 | Specific target organ toxicity - single exposure, cat. 3 |
| M | Multiplying factor |
| PBT | Persistent, bioaccumulative, toxic chemical |
| vPvB | Very Persistent and Very Bioaccumulative chemical |
| DNEL | Derived No Effect Level |
| PNEC | Predicted No Effect Concentration |
| CLP | regulation No. 1272/2008/EC |
| REACH | regulation No. 1907/2006/EC |

Sources of key data used to compile the Safety Data Sheet

European legislation, chemical databases and tables, tests, registration dossier of compounds.

List of H- and P- phrases

| | |
|----------------|--|
| H226 | Flammable liquid and vapour. |
| 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. |
| H336 | May cause drowsiness or dizziness. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| P273 | Avoid release to the environment. |
| 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 in accordance with local regulation. |

Training advice

According to MSDS.

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Relevant information for classification

According to additional method of CLP. Classification according to data from the manufacturer. The mixture does not have a harmonized classification in the EU. Use only for the purposes designated by the manufacturer, will prevent health and environmental risks.

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