

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name

Micro 4

Product no.

-

REACH registration number

Not applicable

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

Relevant identified uses of the substance or mixture

Cleaning liquid

Uses advised against

-

The full text of any mentioned and identified use categories are given in section 16

1.3. Details of the supplier of the safety data sheet

Company and address

Blue & Green AB
Stenorsvägen 52
261 44 Landskrona
Sweden
Tfn: +46 418 399000
Fax: +46 418 13199
www.blueandgreen.se

E-mail

info@blueandgreen.se

SDS date

2020-09-14

SDS Version

1.0

1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service). See section 4 "First aid measures".

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Asp. Tox. 1; H304
Skin Corr. 1B; H314
Eye Dam. 1; H318
STOT RE 1; H372

See full text of H-phrases in section 2.2.

2.2. Label elements

Hazard pictogram(s)



Signal word

Danger

Hazard statement(s)

May be fatal if swallowed and enters airways. (H304)
Causes severe skin burns and eye damage. (H314)

According to EC-Regulation 2015/830

Causes damage to organs through prolonged or repeated exposure. (H372)

Precautionary statements

General	If medical advice is needed, have product container or label at hand. (P101). Keep out of reach of children. (P102).
Prevention	Do not breathe mist/vapours/fume/spray. (P260).
Response	Get medical advice/attention if you feel unwell. (P314).
Storage	Store locked up. (P405).
Disposal	Dispose of contents/container to an approved waste disposal plant. (P501).

Identity of the substances primarily responsible for the major health hazards

naphtha (råolie), hydroafsvovlet tung; 1-Heptanol, 2-propyl-, 5EO; 2-Ethylhexanol, ethoxylated; Quaternary, ammonium, compounds, C12-14-alkyl, hydroxyethyl, dimethyl, ethoxylated, chlorides; Alkoholethoxilate; sodium hydroxide

Additional labelling

Not applicable

Unique formula identifier (UFI)

UUV1-1DES-T10H-YY3J

2.3. Other hazards

This product contains substances that can cause chemical pneumonia if inhaled. The symptoms of chemical pneumonia may appear after several hours.

Additional warnings

Tactile warning. If this product is sold in retail, it must be delivered with child-resistant fastening.

VOC (volatile organic compound)

Not applicable

SECTION 3: Composition/information on ingredients

3.1/3.2. Substances/Mixtures

NAME:	naphtha (råolie), hydroafsvovlet tung
IDENTIFICATION NOS.:	CAS-no: 64742-82-1 EC-no: 265-185-4 REACH-no: 01-2119473977-17
CONTENT:	10 - <15%
CLP CLASSIFICATION:	Asp.Tox 1; STOT RE1; Aquatic Chronic 3; H304,H372,H412,EUH066
NAME:	1-Heptanol, 2-propyl-, 5EO
IDENTIFICATION NOS.:	CAS-no: 160875-66-1
CONTENT:	5 - <10%
CLP CLASSIFICATION:	Eye Dam. 1 H318
NAME:	2-Ethylhexanol, ethoxylated
IDENTIFICATION NOS.:	CAS-no: 26468-86-0 EC-no: 607-943-2
CONTENT:	5 - <10%
CLP CLASSIFICATION:	Eye Dam. 1 H318
NAME:	Quaternary, ammonium, compounds, C12-14-alkyl, hydroxyethyl, dimethyl, ethoxylated, chlorides
IDENTIFICATION NOS.:	CAS-no: 1554325-20-0 EC-no: 810-152-7
CONTENT:	2.5 - <5%
CLP CLASSIFICATION:	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1 H302, H315, H318
NAME:	2-(2-butoxyethoxy)ethanol
IDENTIFICATION NOS.:	CAS-no: 112-34-5 EC-no: 203-961-6 REACH-no: 01-2119475104-44 Index-no: 603-096-00-8
CONTENT:	1 - <2.5%
CLP CLASSIFICATION:	Eye Irrit. 2 H319
NOTE:	L
NAME:	Alkoholethoxilate
IDENTIFICATION NOS.:	CAS-no: 68439-50-9 EC-no: 500-213-3
CONTENT:	1 - <2.5%
CLP CLASSIFICATION:	Eye Dam. 1, Aquatic Chronic 3 H318, H412
NAME:	propan-2-ol
IDENTIFICATION NOS.:	CAS-no: 67-63-0 EC-no: 200-661-7 REACH-no: 01-2119457558-25 Index-no: 603-117-00-0

According to EC-Regulation 2015/830

CONTENT:	1 - <2.5%
CLP CLASSIFICATION:	Flam. Liq. 2, STOT SE 3, Eye Irrit. 2 H225, H319, H336
NOTE:	O
NAME:	sodium hydroxide
IDENTIFICATION NOS.:	CAS-no: 1310-73-2 EC-no: 215-185-5 REACH-no: 01-2119457892-27 Index-no: 011-002-00-6
CONTENT:	0.25 - <1%
CLP CLASSIFICATION:	Met. Corr. 1, Skin Corr. 1A, Eye Dam. 1 H290, H314, H318
NAME:	Amides, C12-18, N-[3-(dimethylamino)propyl], N-oxides
IDENTIFICATION NOS.:	CAS-no: 1471314-81-4 EC-no: 939-581-9 REACH-no: 01-2119978229-22
CONTENT:	0.25 - <1%
CLP CLASSIFICATION:	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 3 H302, H315, H318, H400, H412 (M-acute = 1)

(*) O = Organic solvent L = European occupational exposure limit. See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

ATEmix(oral) > 2000
 Eye Cat. 1 Sum = $\text{Sum}(\text{Ci}/\text{S}(\text{G})\text{CLi}) = 5.5184 - 8.2776$
 Skin Cat. 2 Sum = $\text{Sum}(\text{Ci}/\text{S}(\text{G})\text{CLi}) = 1.732 - 2.598$
 N chronic (CAT 4) Sum = $\text{Sum}(\text{Ci}/(\text{M}(\text{chronic})^{*25})^{*0.1^{*10^{\wedge}\text{CAT4}}}) = 0.37728 - 0.56592$
 N acute (CAT 1) Sum = $\text{Sum}(\text{Ci}/\text{M}(\text{acute})^{*25}) = 0.0278784 - 0.0418176$

Detergent:
 15 - 30%: NON-IONIC SURFACTANTS
 5 - 15%: AROMATIC HYDROCARBONS
 < 5%: CATIONIC SURFACTANTS, ISOPROPYL ALCOHOL

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. The doctor can contact The National Poisons Information Service: Dial 0344 892 0111 (24 h service). Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Bring the person into fresh air and stay with him/her.

Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with soap and water.

Eye contact

Remove contact lenses. Flush eyes with plenty of water or salt water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing.

Ingestion

Do not induce vomiting! If vomiting occurs, keep head facing down to prevent vomit entering the lungs. Call a doctor or ambulance. Symptoms of chemical pneumonia can appear after several hours. People who have swallowed the product should be kept under medical attention for a minimum of 48 hours.

Burns

Not applicable

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

This product contains substances that can cause chemical pneumonia if inhaled. The symptoms of chemical pneumonia may appear after several hours.

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, -irritations and burns in the respiratory organs -as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs.

Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

According to EC-Regulation 2015/830

Call a POISON CENTER/doctor if you feel unwell.

Information to medics

Bring this safety data sheet.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Recommended: alcohol-resistant foam, carbonic acid, powder, water mist.

5.2. Special hazards arising from the substance or mixture

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous catabolic substances are produced. These are: Carbon oxides. Fire will result in dense black smoke. Exposure to combustion products may harm your health. Fire fighters should wear appropriate protection equipment. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

5.3. Advice for firefighters

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances. Avoid inhalation of vapours from spilled material.

6.2. Environmental precautions

No specific requirements.

6.3. Methods and material for containment and cleaning up

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations.

6.4. Reference to other sections

See section on "Disposal considerations" in regard of handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Smoking, storage of tobacco, consumption and storage of food or liquids are not allowed in the workrooms. See section on 'Exposure controls/personal protection' for information on personal protection. Avoid direct contact with the product.

7.2. Conditions for safe storage, including any incompatibilities

Always store in containers of the same material as the original container. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Storage temperature

No data available.

7.3. Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

OEL

sodium hydroxide

Long-term exposure limit (8-hour TWA reference period): - ppm | - mg/m³

Short-term exposure limit (15-minute reference period): - ppm | 2 mg/m³

propan-2-ol

Long-term exposure limit (8-hour TWA reference period): 400 ppm | 999 mg/m³

Short-term exposure limit (15-minute reference period): 500 ppm | 1250 mg/m³

2-(2-butoxyethoxy)ethanol

Long-term exposure limit (8-hour TWA reference period): 10 ppm | 67,5 mg/m³

Short-term exposure limit (15-minute reference period): 15 ppm | 101,2 mg/m³

DNEL / PNEC

DNEL (2-(2-butoxyethoxy)ethanol): 20 mg/kg bw/d

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (2-(2-butoxyethoxy)ethanol): 67.5 mg/m³

Exposure: Inhalation

According to EC-Regulation 2015/830

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (2-(2-butoxyethoxy)ethanol): 67.5 mg/m³
Exposure: Inhalation
Duration of Exposure: Long term – Local effects - Workers

DNEL (2-(2-butoxyethoxy)ethanol): 7.5 mg/m³
Exposure: Inhalation
Duration of Exposure: Short term – Local effects - General population

DNEL (2-(2-butoxyethoxy)ethanol): 1.25 mg/kg bw/d
Exposure: Oral
Duration of Exposure: Long term – Systemic effects - General population

DNEL (2-(2-butoxyethoxy)ethanol): 10 mg/kg bw/d
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - General population

DNEL (2-(2-butoxyethoxy)ethanol): 34 mg/m³
Exposure: Inhalation
Duration of Exposure: Long term – Local effects - General population

DNEL (2-(2-butoxyethoxy)ethanol): 101.2 mg/m³
Exposure: Inhalation
Duration of Exposure: Short term – Local effects - Workers

DNEL (2-(2-butoxyethoxy)ethanol): 34 mg/m³
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - General population

DNEL (propan-2-ol): 319 mg/kg bw/d
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - General population

DNEL (propan-2-ol): 89 mg/m³
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - General population

DNEL (propan-2-ol): 26 mg/kg bw/d
Exposure: Oral
Duration of Exposure: Long term – Systemic effects - General population

DNEL (propan-2-ol): 888 mg/kg bw/d
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (propan-2-ol): 500 mg/m³
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (naphtha (råolie), hydroafsvovlet tung): 330mg/m³
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (naphtha (råolie), hydroafsvovlet tung): 44mg/kg/day
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (naphtha (råolie), hydroafsvovlet tung): 71mg/m³
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - General population

DNEL (naphtha (råolie), hydroafsvovlet tung): 26mg/kg/day
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - General population

DNEL (naphtha (råolie), hydroafsvovlet tung): 26mg/kg/day
Exposure: Oral
Duration of Exposure: Long term – Systemic effects - General population

DNEL (sodium hydroxide): 1 mg/m³
Exposure: Inhalation
Duration of Exposure: Long term – Local effects - General population

According to EC-Regulation 2015/830

DNEL (sodium hydroxide): 1 mg/m³
Exposure: Inhalation
Duration of Exposure: Long term – Local effects - Workers

DNEL (sodium hydroxide): 2 mg/kg bw/d
Exposure: Dermal
Duration of Exposure: Short term – Local effects - Workers

DNEL (sodium hydroxide): 2 mg/m³
Exposure: Inhalation
Duration of Exposure: Short term – Local effects - Workers

DNEL (Amides, C12-18, N-[3-(dimethylamino)propyl], N-oxides): 3.52 mg/m³
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (Amides, C12-18, N-[3-(dimethylamino)propyl], N-oxides): 5 mg/kg bw/d
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (Amides, C12-18, N-[3-(dimethylamino)propyl], N-oxides): 0.87 mg/m³
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - General population

DNEL (Amides, C12-18, N-[3-(dimethylamino)propyl], N-oxides): 2.5 mg/kg bw/d
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - General population

DNEL (Amides, C12-18, N-[3-(dimethylamino)propyl], N-oxides): 0.05 mg/kg bw/d
Exposure: Oral
Duration of Exposure: Long term – Systemic effects - General population

PNEC (2-(2-butoxyethoxy)ethanol): 200 mg/l
Exposure: Sewage Treatment Plant

PNEC (2-(2-butoxyethoxy)ethanol): 0.44 mg/kg dw
Exposure: Marine water sediment

PNEC (2-(2-butoxyethoxy)ethanol): 4.4 mg/kg dw
Exposure: Freshwater sediment

PNEC (2-(2-butoxyethoxy)ethanol): 1 mg/l
Exposure: Freshwater

PNEC (2-(2-butoxyethoxy)ethanol): 0.1 mg/l
Exposure: Marine water

PNEC (2-(2-butoxyethoxy)ethanol): 3.9 mg/l
Exposure: Intermittent release

PNEC (2-(2-butoxyethoxy)ethanol): 0.32 mg/kg dw
Exposure: Soil

PNEC (propan-2-ol): 552 mg/kg dw
Exposure: Marine water sediment

PNEC (propan-2-ol): 140.9 mg/l
Exposure: Freshwater

PNEC (propan-2-ol): 28 mg/kg dw
Exposure: Soil

PNEC (propan-2-ol): 140.9 mg/l
Exposure: Marine water

PNEC (propan-2-ol): 140.9 mg/l
Exposure: Intermittent release

According to EC-Regulation 2015/830

PNEC (propan-2-ol): 2251 mg/l
Exposure: Sewage Treatment Plant

PNEC (propan-2-ol): 552 mg/kg dw
Exposure: Freshwater sediment

PNEC (Amides, C12-18, N-[3-(dimethylamino)propyl], N-oxides): 30.3 µg/l
Exposure: Freshwater

PNEC (Amides, C12-18, N-[3-(dimethylamino)propyl], N-oxides): 3.03 µg/l
Exposure: Marine water

PNEC (Amides, C12-18, N-[3-(dimethylamino)propyl], N-oxides): 6.8 µg/l
Exposure: Intermittent release

PNEC (Amides, C12-18, N-[3-(dimethylamino)propyl], N-oxides): 0.214 mg/kg dw
Exposure: Freshwater sediment

PNEC (Amides, C12-18, N-[3-(dimethylamino)propyl], N-oxides): 0.021 mg/kg dw
Exposure: Marine water sediment

PNEC (Amides, C12-18, N-[3-(dimethylamino)propyl], N-oxides): 0.000025 mg/kg dw
Exposure: Soil

PNEC (Amides, C12-18, N-[3-(dimethylamino)propyl], N-oxides): 9.7 mg/l
Exposure: Sewage Treatment Plant

8.2. Exposure controls

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

General recommendations

Observe general occupational hygiene standards.

Exposure scenarios

There is no appendix to this safety data sheet.

Exposure limits

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

Appropriate technical measures

Ensure emergency eyewash and -showers are clearly marked.

Hygiene measures

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

Measures to avoid environmental exposure

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

Individual protection measures, such as personal protective equipment



Generally

Use only CE marked protective equipment.

Respiratory Equipment

NA

Skin protection

Dedicated work clothing should be worn. Wear a protective suit in the event of prolonged periods of work with the product.

Hand protection

Nitrile rubber

Breakthrough time: > 480 minutes (Class 6)

Eye protection

Wear safety glasses with side shields.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

According to EC-Regulation 2015/830

Form	Liquid
Colour	Colourless
Odour	Solvent
Odour threshold (ppm)	No data available.
pH	12.9
Viscosity (40°C)	No data available.
Density (g/cm ³)	0.99
Phase changes	
Melting point (°C)	No data available.
Boiling point (°C)	No data available.
Vapour pressure	No data available.
Decomposition temperature (°C)	No data available.
Evaporation rate (n-butylacetate = 100)	No data available.
Data on fire and explosion hazards	
Flash point (°C)	No data available.
Ignition (°C)	No data available.
Auto flammability (°C)	No data available.
Explosion limits (% v/v)	No data available.
Explosive properties	No data available.
Solubility	
Solubility in water	Soluble
n-octanol/water coefficient	No data available.
9.2. Other information	
Solubility in fat (g/L)	No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The product is stable under the conditions, noted in the section "Handling and storage".

10.3. Possibility of hazardous reactions

Nothing special

10.4. Conditions to avoid

Nothing special

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Substance: Amides, C12-18, N-[3-(dimethylamino)propyl], N-oxides

Species: Rat

Test: LD50

Route of exposure: Oral

Result: 500-100 mg/kg

Substance: Amides, C12-18, N-[3-(dimethylamino)propyl], N-oxides

Species: Rat

Test: LD50

Route of exposure: Dermal

Result: >2000 mg/kg

Substance: sodium hydroxide

Species: Rat

Test: LD50

Route of exposure: Oral

Result: 325 mg/kg bw

Substance: propan-2-ol

Species: Rat

According to EC-Regulation 2015/830

Test: LD50

Route of exposure: Oral

Result: 5840 mg/kg

Substance: propan-2-ol

Species: Rat

Test: LC50

Route of exposure: Inhalation

Result: >25 mg/l, 6h ånga

Substance: propan-2-ol

Species: Rabbit

Test: LD50

Route of exposure: Dermal

Result: 13900 mg/kg

Substance: Alkoholethoxilate

Species: Rat

Test: LD50

Route of exposure: Oral

Result: >2000mg/kg

Substance: Alkoholethoxilate

Species: Rabbit

Test: LD50

Route of exposure: Dermal

Result: >2000mg/kg

Substance: 2-(2-butoxyethoxy)ethanol

Species: Rat

Test: LD50

Route of exposure: Oral

Result: >2000 mg/kg

Substance: 2-(2-butoxyethoxy)ethanol

Species: Rabbit

Test: LD50

Route of exposure: Dermal

Result: 2764 mg/kg

Substance: 2-(2-butoxyethoxy)ethanol

Species: Rat

Test: LC50

Route of exposure: Inhalation

Result: >29 ppm 2h

Substance: 2-(2-butoxyethoxy)ethanol

Species: Mouse

Test: LD50

Route of exposure: Oral

Result: 2410mg/kg

Substance: Quaternary, ammonium, compounds, C12-14-alkyl, hydroxyethyl, dimethyl, ethoxylated, chlorides

Species: Rat

Test: LD50

Route of exposure: Oral

Result: >300-2000 mg/kg

Substance: 2-Ethylhexanol, ethoxylated

Species: Rat

Test: LD50

Route of exposure: Oral

Result: >2000 mg/kg

Substance: naphtha (råolie), hydroafsvovlet tung

Species: Rat

Test: LD50

Route of exposure: Oral

Result: >15000mg/kg

Substance: naphtha (råolie), hydroafsvovlet tung

Species: Rat

Test: LC50

According to EC-Regulation 2015/830

Route of exposure: Inhalation
Result: >13,1mg/l 4h

Substance: naphtha (råolie), hydroafsvovlet tung
Species: Rat
Test: LD50
Route of exposure: Dermal
Result: >3400mg/kg/bw

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Data on substance: 2-(2-butoxyethoxy)ethanol
Test: OECD Guideline 404
Organism: Rabbit
Result: Ingen hudirritation

Serious eye damage/irritation

Causes serious eye damage.

Data on substance: 2-(2-butoxyethoxy)ethanol
Test: OECD Guideline 404
Organism: Rabbit
Result: Ögonirritation

Respiratory or skin sensitisation

Data on substance: 2-(2-butoxyethoxy)ethanol
Test: OECD Guideline 406
Organism: Guinea pig
Result: Negative

Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

Reproductive toxicity

No data available.

STOT-single exposure

No data available.

STOT-repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard

May be fatal if swallowed and enters airways.

Long term effects

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, -irritations and burns in the respiratory organs -as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

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

SECTION 12: Ecological information

12.1. Toxicity

Substance: Amides, C12-18, N-[3-(dimethylamino)propyl], N-oxides
Species: Fish
Test: LC50
Duration: 96h
Result: 0.68 mg/l

Substance: Amides, C12-18, N-[3-(dimethylamino)propyl], N-oxides
Species: Daphnia
Test: EC50
Duration: 48h
Result: 19.9 mg/l

Substance: Amides, C12-18, N-[3-(dimethylamino)propyl], N-oxides
Species: Algae
Test: ErC50
Duration: 72h
Result: 0.705 mg/l

Substance: Amides, C12-18, N-[3-(dimethylamino)propyl], N-oxides
Species: Algae
Test: NOEC
Duration: 72h
Result: 0.303 mg/l

Substance: Amides, C12-18, N-[3-(dimethylamino)propyl], N-oxides

According to EC-Regulation 2015/830

Species: Daphnia

Test: NOEC

Duration: 21d

Result: 0.7 mg/l

Substance: Amides, C12-18, N-[3-(dimethylamino)propyl], N-oxides

Species: Fish

Test: NOEC

Duration: 302d

Result: 0.42 mg/l

Substance: sodium hydroxide

Species: Fish

Test: LC50

Duration: 96h

Result: 33-189 mg/l

Substance: sodium hydroxide

Species: Daphnia

Test: EC50

Duration: 48h

Result: 40-240 mg/l

Substance: propan-2-ol

Species: Fish

Test: LC50

Duration: 96h

Result: >100 mg/l

Substance: propan-2-ol

Species: Daphnia

Test: LC50

Duration: 48h

Result: >100 mg/l

Substance: propan-2-ol

Species: Algae

Test: EC50

Duration: 72h

Result: >100mg/l

Substance: Alkoholethoxilate

Species: Daphnia

Test: EC50

Duration: 48h

Result: 1-10mg/l

Substance: Alkoholethoxilate

Species: Fish

Test: LC50

Duration: 96h

Result: 1-10mg/l

Substance: Alkoholethoxilate

Species: Algae

Test: EC50

Duration: 72h

Result: 1-10mg/l

Substance: 2-(2-butoxyethoxy)ethanol

Species: Fish

Test: LC50

Duration: 96h

Result: >100 mg/l

Substance: 2-(2-butoxyethoxy)ethanol

Species: Algae

Test: EC50

Duration: 96h

Result: >100 mg/l

Substance: 2-(2-butoxyethoxy)ethanol

Species: Daphnia

According to EC-Regulation 2015/830

Test: EC50
Duration: 48h
Result: >100 mg/l

Substance: Quaternary, ammonium, compounds, C12-14-alkyl, hydroxyethyl, dimethyl, ethoxylated, chlorides
Species: Fish
Test: LC50
Duration: 96h
Result: 10-100 mg/l

Substance: Quaternary, ammonium, compounds, C12-14-alkyl, hydroxyethyl, dimethyl, ethoxylated, chlorides
Species: Daphnia
Test: EC50
Duration: 48h
Result: 1-10 mg/l

Substance: Quaternary, ammonium, compounds, C12-14-alkyl, hydroxyethyl, dimethyl, ethoxylated, chlorides
Species: Algae
Test: EC50
Duration: 72h
Result: 1-10 mg/l

Substance: 2-Ethylhexanol, ethoxylated
Species: Fish
Test: LC50
Duration: 96h
Result: 10-100 mg/l

Substance: 2-Ethylhexanol, ethoxylated
Species: Daphnia
Test: EC50
Duration: 48h
Result: 1-10 mg/l

Substance: 2-Ethylhexanol, ethoxylated
Species: Algae
Test: EC50
Duration: 72h
Result: 1-10 mg/l

Substance: 1-Heptanol, 2-propyl-, 5EO
Species: Fish
Test: LC50
Duration: 96h
Result: 10-100 mg/l

Substance: 1-Heptanol, 2-propyl-, 5EO
Species: Daphnia
Test: EC50
Duration: 48h
Result: 10-100 mg/l

Substance: naphtha (råolie), hydroafsvovlet tung
Species: Fish
Test: LC50
Duration: 96h
Result: 10-100mg/l

Substance: naphtha (råolie), hydroafsvovlet tung
Species: Algae
Test: EC50
Duration: 72h
Result: 10-100mg/l

Substance: naphtha (råolie), hydroafsvovlet tung
Species: Daphnia
Test: EC50
Duration: 48h
Result: 100-200mg/l

12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
Amides, C12-18, N-[3-(dimethyl... sodium hydroxide	Yes Yes	CO2 Evolution Test No data available	75% No data available

According to EC-Regulation 2015/830

propan-2-ol	Yes	No data available	No data available
Alkoholethoxilate	Yes	CO2 Evolution Test	>60%
2-(2-butoxyethoxy)ethanol	Yes	Modified OECD	100%
Quaternary, ammonium, compounds, ...	Yes	Screening Test	>60%
2-Ethylhexanol, ethoxylated	Yes	Closed Bottle Test	>60%
1-Heptanol, 2-propyl-, 5EO	Yes	CO2 Evolution Test	>60%
naphtha (råolie), hydroafsvovl...	Yes	Closed Bottle Test	74,7
		Manometric Respirometry Test	
12.3. Bioaccumulative potential			
Substance	Potential bioaccumulation	LogPow	BCF
Amides, C12-18, N-[3-(dimethyl...	No	No data available	No data available
sodium hydroxide	No	No data available	No data available
propan-2-ol	No	0.05	No data available
Alkoholethoxilate	No	No data available	No data available
2-(2-butoxyethoxy)ethanol	No	1	No data available
Quaternary, ammonium, compounds, ...	No	No data available	No data available
2-Ethylhexanol, ethoxylated	No	No data available	No data available
1-Heptanol, 2-propyl-, 5EO	No	No data available	No data available
naphtha (råolie), hydroafsvovl...	Yes	No data available	No data available
12.4. Mobility in soil			
Amides, C12-18, N-[3-(dimethyl...: Log Koc= 1.54 (High mobility potential.).			
propan-2-ol: Log Koc= 0.117995, Calculated from LogPow (High mobility potential.).			
2-(2-butoxyethoxy)ethanol: Log Koc= 0.8703, Calculated from LogPow (High mobility potential.).			
12.5. Results of PBT and vPvB assessment			
This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.			
12.6. Other adverse effects			
This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.			
This product contains substances, which may cause adverse long-term effects to the aquatic environment.			
This product contains substances with the potential of bioaccumulation resulting in the risk of accumulation in the food chain.			
Bioaccumulative substances are concentrated in adipose tissue and are not easily secreted.			

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

Waste

EWC code

-

Specific labelling

Not applicable

Contaminated packing

Contaminated packaging must be disposed of similarly to the product.

SECTION 14: Transport information

14.1 – 14.4

This product is within scope of the regulations of transport of dangerous goods.

ADR/RID

14.1. UN number	1760
14.2. UN proper shipping name	CORROSIVE LIQUID, N.O.S.
14.3. Transport hazard class(es)	8
14.4. Packing group	III
Notes	-
Tunnel restriction code	E

IMDG

UN-no.	1760
Proper Shipping Name	CORROSIVE LIQUID, N.O.S.
Class	8
PG*	III
EmS	F-A, S-B
MP**	No
Hazardous constituent	-

IATA/ICAO

UN-no.	1760
Proper Shipping Name	CORROSIVE LIQUID, N.O.S.
Class	8

According to EC-Regulation 2015/830

PG*

III

14.5. Environmental hazards

-

14.6. Special precautions for user

-

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

No data available

(*) Packing group

(**) Marine pollutant

SECTION 15: Regulatory information

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

Restrictions for application

People under the age of 18 shall not be exposed to this product cf. Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

Demands for specific education

-

Additional information

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

Seveso

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Biocidal reg. no.

Not applicable

Sources

Council Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding.

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677. The Stationery Office, 2002.

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (CLP).

Regulation (EC) 1907/2006 (REACH).

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H225 - Highly flammable liquid and vapour.

H290 - May be corrosive to metals.

H302 - Harmful if swallowed.

H304 - May be fatal if swallowed and enters airways.

H314 - Causes severe skin burns and eye damage.

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness.

H372 - Causes damage to organs through prolonged or repeated exposure^a.

H400 - Very toxic to aquatic life.

H412 - Harmful to aquatic life with long lasting effects.

EUH066 - Repeated exposure may cause skin dryness or cracking.

According to EC-Regulation 2015/830

The full text of identified uses as mentioned in section 1

-

Additional label elements

Not applicable

Other

In accordance with Regulation (EC) No. 1272/2008 (CLP) the evaluation of the classification of the mixture is based on:

The classification of the mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

The classification of the mixture in regard of skin corrosion and serious eye damage is based on the pH-criterion given by Regulation (EC) No. 1272/2008 (CLP) It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The safety data sheet is validated by

David Löwenstein

**Date of last essential change
(First cipher in SDS version)**

-

**Date of last minor change
(Last cipher in SDS version)**

-