

SAFETY DATA SHEET according to regulation 1907/2006



Product name: 8024 Drying Aid Manual

Creation date: 26.05.2021, Revision: 27.05.2021, version: 1.1

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name
8024 Drying Aid Manual



<https://my.chemius.net/p/EwePsd/en/pd/en>

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

Relevant identified uses
Car Wax

Uses advised against
No information.

1.3 Details of the supplier of the safety data sheet

Supplier
SILCO, D.O.O.
Šentrupert 5 a
3303 Gomilsko, Slovenia
+386 3 703 3180
n.cvilak@silco-automotive.com

1.4 Emergency Telephone Number

Emergency
112
Supplier
+386 3 703 3180

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)
Skin Irrit. 2; H315 Causes skin irritation.
Eye Dam. 1; H318 Causes serious eye damage.
Aquatic Acute 1; H400 Very toxic to aquatic life.
Aquatic Chronic 1; H410 Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

**Signal word: Danger**

H315 Causes skin irritation.

H318 Causes serious eye damage.

H410 Very toxic to aquatic life with long lasting effects.

P264 Wash hands thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/eye protection/face 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.

P310 Immediately call a POISON CENTER or doctor/physician.

P391 Collect spillage.

Contains:

(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines

acetic acid

2-methylpropan-1-ol

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Substances**

For mixtures see 3.2.

3.2 Mixtures

| NAME | CAS EC INDEX REACH | % | CLASSIFICATION ACCORDING TO REGULATION (EC) NO 1272/2008 (CLP) | SPECIFIC CONC. LIMITS | NOTES FOR SUBSTANCES |
|---|---|-----------------|---|-----------------------|----------------------|
| 2-butoxyethanol | 111-76-2 203-905-0 603-014-00-0 01- 2119475108- 36 | $8 \leq x < 10$ | Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute Tox. 4; H332 | / | / |
| (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines | 1213789-63- 9 627-034-4 - 01- 2119473797- 19 | $3 \leq x < 4$ | Acute Tox. 4; H302 Asp. Tox. 1; H304 Skin Corr. 1B; H314.1B STOT SE 3; H335 STOT RE 2; H373 Aquatic Acute 1; H400.10 Aquatic Chronic 1; H410.10 | / | / |
| Fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | - 931-216-1 - 01- 2119472309- 33 | $2 \leq x < 3$ | Skin Irrit. 2; H315 Eye Irrit. 2; H319 | / | / |

| | | | | | |
|--|--|------------------------|---|--|---|
| 2,2,4,6,6-pentamethylheptane | 13475-82-6 236-757-0 - 01- 2119490725- 29 | $1 \leq x < 2$ | Flam. Liq. 3; H226 Asp. Tox. 1; H304 Aquatic Chronic 4; H413 EUH066 | / | / |
| acetic acid | 64-19-7 200-580-7 607-002-00-6 01- 2119475328- 30 | $1 \leq x < 2$ | Flam. Liq. 3; H226 Skin Corr. 1A; H314.1A | Skin Corr. 1A; H314.1A; $C \geq 90\%$ Skin Corr. 1B; H314.1B; $25\% \leq C < 90\%$ Skin Irrit. 2; H315; $10\% \leq C < 25\%$ Eye Irrit. 2; H319; $10\% \leq C < 25\%$ | B |
| 2-methylpropan-1-ol | 78-83-1 201-148-0 603-108-00-1 01- 2119484609- 23 | $1 \leq x < 2$ | Flam. Liq. 3; H226 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335 STOT SE 3; H336 | / | / |
| hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | - 926-141-6 - 01- 2119456620- 43 | $1 \leq x < 2$ | Asp. Tox. 1; H304 EUH066 | / | / |
| 2,2'-(octadec-9-enylimino)bisethanol | 25307-17-9 246-807-3 - 01- 2119510876- 35 | $0,607 \leq x < 0,707$ | Acute Tox. 4; H302 Skin Corr. 1B; H314.1B Eye Dam. 1; H318 Aquatic Acute 1; H400.10 Aquatic Chronic 1; H410 | / | / |

Notes for substances

Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations.

B In Part 3 entries with Note B have a general designation of the following type: "nitric acid ... %".

In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

SECTION 4: FIRST AID MEASURES

4.1 First aid measures

General notes

When in doubt or if feeling unwell seek medical assistance. Show the safety data sheet and label to the physician. Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency. Person giving first aid should properly protect himself.

Following inhalation

Remove patient to fresh air - move out of dangerous area. Keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained

personnel. Seek medical help immediately.

Following skin contact

Take off all contaminated clothing. Areas of the body that have come into contact with the product must be rinsed with water. Consult a physician.

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a physician immediately!

Following ingestion

Drink plenty of water in small sips. Do not induce vomiting without prior consultation with a doctor. Never give anything by mouth to an unconscious person. Immediately consult a doctor. Show the physician the safety data sheet or label.

4.2 Most important symptoms and effects, both acute and delayed

Following inhalation

Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation.

Following skin contact

Itching, redness, pain.

Following eye contact

Discomfort or pain, excessive blinking, lacrimation and redness, swelling of the conjunctiva.

Following ingestion

May cause nausea/vomiting and diarrhea. May cause abdominal discomfort.

4.3 Indication of any immediate medical attention and special treatment needed

No information.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam.

Unsuitable extinguishing media

Full water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke.

5.3 Advice for firefighters

Protective actions

In case of fire evacuate the area. In case of fire or heating do not breathe fumes/vapours. No action shall be taken involving any personal risk or without suitable training. Cool the endangered containers with water spray.

Special protective equipment for fire-fighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137).

Additional information

Contaminated firefighting water must be disposed of in accordance with the regulations; do not allow to reach the sewage system.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment

Use personal protective equipment (Section 8).

Precautionary measures

Ensure adequate ventilation.

Emergency procedures

No action shall be taken involving any personal risk or without suitable training. Evacuate the danger zone. Prevent access to unprotected personnel. Do not breathe vapour or mist. Avoid contact with skin, eyes and clothing.

For emergency responders

Use personal protective equipment.

6.2 Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. If accidental large entry into water or ground occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up

For containment

Stem the spill if this does not pose risks.

For cleaning up

Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Make sure the leakage site is well aired. Dispose in accordance with applicable regulations (see Section 13).

OTHER INFORMATION

No information.

6.4 Reference to other sections

See also sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Protective measures

Measures to prevent fire

Ensure adequate ventilation. Keep away from sources of ignition - no smoking. Use spark-proof tools. Vapours are heavier than air and spread along the floor. They form explosive mixtures with air. Take precautionary measures against static discharges.

Measures to prevent aerosol and dust generation

Use general or local exhaust ventilation to prevent inhaling vapours and aerosols.

Measures to protect the environment

Do not discharge into drains, surface water and soil. After use immediately close container tightly.

Other measures

No information.

Advice on general occupational hygiene

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Do not breathe vapours/mist. Avoid contact with skin, eyes and clothes. Wear suitable protective equipment; see Section 8. Remove contaminated clothes and wash them before reuse. Before entering areas where food is eaten, remove contaminated clothing and protective equipment. Refer to instructions on label and regulations for safety and health at work.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Store in accordance with local regulations. Keep in well closed containers. Keep in a cool, dry and well ventilated place. Keep away from sources of ignition - no smoking. Keep away from incompatible products (see section 10). Keep away from food, drink and animal feeding stuffs.

Packaging materials

Store only in original container.

Requirements for storage rooms and vessels

Close opened containers after use. Put the containers upright to prevent from leaking. Do not store in unlabelled containers.

Storage class

No information.

Further information on storage conditions

No information.

7.3 Specific end use(s)**Recommendations**

No information.

Industrial sector specific solutions

No information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters****Occupational Exposure limit values**

| NAME | MG/M ³ | ML/M ³ | SHORT-TERM VALUE MG/M ³ | SHORT-TERM VALUE ML/M ³ | REMARK | BIOLOGICAL TOLERANCE VALUES |
|----------------------------|-------------------|-------------------|------------------------------------|------------------------------------|----------|---|
| 2-Butoxyethanol (111-76-2) | 123 | 25 | 246 | 50 | Sk, BMGV | 240 mmol butoxyacetic acid/mol creatinine in urine - Post shift |
| Acetic acid (64-19-7) | 25 | 10 | 50 | 20 | / | / |

Information on monitoring procedures

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 482:2012+A1:2015 Workplace exposure. General requirements for the performance of procedures for the measurement of chemical agents.

DNEL/DMEL values**For product**

No information.

For components

| NAME | TYPE | EXPOSURE ROUTE | EXP. FREQUENCY | REMARK | VALUE |
|-----------------|--------|----------------|-----------------------------|--------|------------------------|
| 2-butoxyethanol | Worker | inhalation | long term systemic effects | / | 98 mg/m ³ |
| 2-butoxyethanol | Worker | inhalation | short term systemic effects | / | 1091 mg/m ³ |
| 2-butoxyethanol | Worker | inhalation | short term local effects | / | 246 mg/m ³ |
| 2-butoxyethanol | Worker | dermal | long term systemic effects | / | 125 mg/kg bw/day |

| | | | | | |
|---|----------|------------|-----------------------------|---|-------------------------|
| 2-butoxyethanol | Worker | dermal | short term systemic effects | / | 89 mg/kg bw/day |
| 2-butoxyethanol | Consumer | inhalation | long term systemic effects | / | 59 mg/m ³ |
| 2-butoxyethanol | Consumer | inhalation | short term systemic effects | / | 426 mg/m ³ |
| 2-butoxyethanol | Consumer | inhalation | short term local effects | / | 147 mg/m ³ |
| 2-butoxyethanol | Consumer | dermal | long term systemic effects | / | 75 mg/kg bw/day |
| 2-butoxyethanol | Consumer | dermal | short term systemic effects | / | 89 mg/kg bw/day |
| 2-butoxyethanol | Consumer | oral | long term systemic effects | / | 6.3 mg/kg bw/day |
| 2-butoxyethanol | Consumer | oral | short term systemic effects | / | 26.7 mg/kg bw/day |
| (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines | Worker | inhalation | long term systemic effects | / | 0.38 mg/m ³ |
| (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines | Worker | inhalation | long term local effects | / | 1 mg/m ³ |
| (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines | Worker | inhalation | short term local effects | / | 1 mg/m ³ |
| (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines | Consumer | inhalation | long term systemic effects | / | 0.035 mg/m ³ |
| (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines | Consumer | oral | long term systemic effects | / | 40 ug/kg bw/day |
| fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | Worker | inhalation | long term systemic effects | / | 44 mg/m ³ |
| fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | Worker | dermal | long term systemic effects | / | 312.5 mg/kg bw/day |
| fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | Consumer | inhalation | long term systemic effects | / | 13 mg/m ³ |
| fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | Consumer | dermal | long term systemic effects | / | 187.5 mg/kg bw/day |
| fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | Consumer | oral | long term systemic effects | / | 7.5 mg/kg bw/day |
| acetic acid | Worker | inhalation | long term local effects | / | 25 mg/m ³ |

| | | | | | |
|--------------------------------------|----------|------------|----------------------------|---|-------------------------|
| acetic acid | Worker | inhalation | short term local effects | / | 25 mg/m ³ |
| acetic acid | Consumer | inhalation | long term local effects | / | 25 mg/m ³ |
| acetic acid | Consumer | inhalation | short term local effects | / | 25 mg/m ³ |
| 2-methylpropan-1-ol | Worker | inhalation | long term local effects | / | 310 mg/m ³ |
| 2-methylpropan-1-ol | Consumer | inhalation | long term local effects | / | 55 mg/m ³ |
| 2,2'-(octadec-9-enylimino)bisethanol | Worker | inhalation | long term systemic effects | / | 2.112 mg/m ³ |
| 2,2'-(octadec-9-enylimino)bisethanol | Worker | dermal | long term systemic effects | / | 0.3 mg/kg bw/day |
| 2,2'-(octadec-9-enylimino)bisethanol | Consumer | inhalation | long term systemic effects | / | 0.745 mg/m ³ |
| 2,2'-(octadec-9-enylimino)bisethanol | Consumer | dermal | long term systemic effects | / | 0.214 mg/kg bw/day |
| 2,2'-(octadec-9-enylimino)bisethanol | Consumer | oral | long term systemic effects | / | 0.214 mg/kg bw/day |

PNEC values

For product

No information.

For components

| NAME | EXPOSURE ROUTE | REMARK | VALUE |
|--|-----------------------------|------------|------------|
| 2-butoxyethanol | fresh water | / | 8.8 mg/L |
| 2-butoxyethanol | water, intermittent release | / | 26.4 mg/L |
| 2-butoxyethanol | marine water | / | 0.88 mg/L |
| 2-butoxyethanol | water treatment plant | / | 463 mg/L |
| 2-butoxyethanol | fresh water sediment | dry weight | 34.6 mg/kg |
| 2-butoxyethanol | marine water sediment | dry weight | 3.46 mg/kg |
| 2-butoxyethanol | soil | dry weight | 2.33 mg/kg |
| 2-butoxyethanol | secondary poisoning | food | 0.02 g/kg |
| (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines | fresh water | / | 0.26 µg/l |

| | | | |
|---|-----------------------------|------------|-------------|
| (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines | water, intermittent release | / | 1.6 µg/l |
| (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines | marine water | / | 0.026 µg/l |
| (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines | water treatment plant | / | 550 µg/l |
| (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines | fresh water sediment | dry weight | 3.76 mg/kg |
| (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines | marine water sediment | dry weight | 0.376 mg/kg |
| (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines | soil | dry weight | 10 mg/kg |
| fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | fresh water | / | 0.002 mg/L |
| fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | water, intermittent release | / | 0.019 mg/L |
| fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | marine water | / | 0 mg/L |
| fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | water treatment plant | / | 2.96 mg/L |
| fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | fresh water sediment | dry weight | 0.58 mg/kg |
| fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | marine water sediment | dry weight | 0.058 mg/kg |
| fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | soil | dry weight | 0.115 mg/kg |
| acetic acid | fresh water | / | 3.058 mg/L |
| acetic acid | water, intermittent release | / | 30.58 mg/L |
| acetic acid | marine water | / | 0.306 mg/L |
| acetic acid | water treatment plant | / | 85 mg/L |
| acetic acid | fresh water sediment | dry weight | 11.36 mg/kg |
| acetic acid | marine water sediment | dry weight | 1.136 mg/kg |
| acetic acid | soil | dry weight | 0.47 mg/kg |
| 2-methylpropan-1-ol | fresh water | / | 0.4 mg/L |
| 2-methylpropan-1-ol | water, intermittent release | / | 11 mg/L |
| 2-methylpropan-1-ol | marine water | / | 0.04 mg/L |
| 2-methylpropan-1-ol | water treatment plant | / | 10 mg/L |

| | | | |
|--------------------------------------|-----------------------------|------------|-------------|
| 2-methylpropan-1-ol | fresh water sediment | dry weight | 1.56 mg/kg |
| 2-methylpropan-1-ol | marine water sediment | dry weight | 0.156 mg/kg |
| 2-methylpropan-1-ol | soil | dry weight | 0.076 mg/kg |
| 2,2'-(octadec-9-enylimino)bisethanol | fresh water | / | 0.214 µg/l |
| 2,2'-(octadec-9-enylimino)bisethanol | water, intermittent release | / | 0.87 µg/l |
| 2,2'-(octadec-9-enylimino)bisethanol | marine water | / | 0.021 µg/l |
| 2,2'-(octadec-9-enylimino)bisethanol | water treatment plant | / | 1500 µg/l |
| 2,2'-(octadec-9-enylimino)bisethanol | fresh water sediment | dry weight | 1.692 mg/kg |
| 2,2'-(octadec-9-enylimino)bisethanol | marine water sediment | dry weight | 0.169 mg/kg |
| 2,2'-(octadec-9-enylimino)bisethanol | soil | dry weight | 5 mg/kg |
| 2,2'-(octadec-9-enylimino)bisethanol | secondary poisoning | food | 2 mg/kg |

8.2 Exposure controls

Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothes. Do not eat, drink or smoke while working. Do not breathe vapours/aerosols. Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Structural measures to prevent exposure

No information.

Organisational measures to prevent exposure

Remove all contaminated clothes immediately and wash them before reuse. Keep eyewash bottles or personal eyewash units and emergency showers available.

Technical measures to prevent exposure

The use of adequate technical equipment must always take priority over personal protective equipment. Provide good ventilation and local exhaust in areas with increased concentration. Keep away from food, drink and animal feeding stuffs.

Personal protective equipment

Eye and face protection

Tight fitting protective goggles (EN 166).

Hand protection

Protective gloves (EN 374). Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. The penetration time is determined by the protective glove manufacturer and must be observed.

Appropriate materials

Skin protection

Wear category II professional long-sleeved overalls and safety footwear (see Regulation (EU) 2016/425 and standard EN ISO 20344). Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345). Protective work clothing

resistant to liquid chemicals (EN 14605).

Respiratory protection

At elevated concentrations of vapours/aerosols in the air wear a mask (EN 140) with filter A2-P2 (EN 14387). 'High/elevated concentrations' means that the occupational exposure limit values have been exceeded. For dust/gas/vapor concentrations above the applicable filter limit, in case of oxygen concentrations below 17% or in vague conditions, autonomous self-contained breathing apparatus should be used, according to standard EN 137, EN 138.

Thermal hazards

No information.

Environmental exposure controls

Substance/mixture related measures to prevent exposure

No information.

Instruction measures to prevent exposure

No information.

Organisational measures to prevent exposure

No information.

Technical measures to prevent exposure

Do not allow product to reach drains, sewage systems or ground water.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state

liquid

Colour

red

Odour

pungent

Important health, safety and environmental information

| | |
|-------------------------------------|-------------------------|
| Odour threshold | No information. |
| pH | 4 |
| Melting point/Freezing point | No information. |
| Initial boiling point/boiling range | No information. |
| Flash point | > 60 °C |
| Evaporation rate | No information. |
| Flammability (solid, gas) | No information. |
| Explosion limits (vol%) | No information. |
| Vapour pressure | No information. |
| Vapour density | No information. |
| Density / weight | Relative density: 0.954 |
| Solubility | Water: miscible |
| Partition coefficient | No information. |
| Auto-ignition temperature | No information. |
| Decomposition temperature | No information. |

| | |
|----------------------|---------------------------|
| Viscosity | No information. |
| Explosive properties | Product is not explosive. |
| Oxidising properties | Not oxidising. |

9.2 OTHER INFORMATION

| | |
|----------------|------------------|
| Solids content | 11.86 % (250 °C) |
|----------------|------------------|

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under recommended transport or storage conditions.

10.2 Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

10.3 Possibility of hazardous reactions

Vapours and air can form flammable or explosive mixtures.

10.4 Conditions to avoid

Protect from heat, direct sunlight, open fire, sparks. Heating.

10.5 Incompatible materials

Oxidants.

10.6 Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

(a) Acute toxicity

For product

| EXPOSURE ROUTE | TYPE | SPECIES | TIME | VALUE | METHOD | REMARK |
|----------------|------|---------|------|--------------|--------|--------|
| inhalation | ATE | / | / | > 20 mg/l | / | / |
| oral | ATE | / | / | > 2000 mg/kg | / | / |
| dermal | ATE | / | / | > 2000 mg/kg | / | / |

For components

| NAME | EXPOSURE ROUTE | TYPE | SPECIES | TIME | VALUE | METHOD | REMARK |
|---|----------------|------------------|---------|------|--------------------------|--------|--------|
| 2-butoxyethanol | oral | LD ₅₀ | rat | / | 1300 mg/kg | / | / |
| 2-butoxyethanol | dermal | LD ₅₀ | rabbit | / | > 2000 mg/kg | / | / |
| 2-butoxyethanol | inhalation | LC ₅₀ | rat | 7 h | > 400 mg/l | / | / |
| (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines | oral | LD ₅₀ | / | / | 1689 mg/kg | / | / |
| (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines | dermal | LD ₅₀ | / | / | > 2000 mg/kg | / | / |
| (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines | inhalation | LC ₅₀ | / | 1 h | > 0.099 mg/l | / | / |
| fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | oral | LD ₅₀ | rat | / | 5000 mg/kg | / | / |
| fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | dermal | LD ₅₀ | / | / | > 2000 mg/kg | / | / |
| 2,2,4,6,6-pentamethylheptane | oral | LD ₅₀ | rat | / | > 5000 mg/kg | / | / |
| 2,2,4,6,6-pentamethylheptane | dermal | LD ₅₀ | rabbit | / | > 3160 mg/kg | / | / |
| 2,2,4,6,6-pentamethylheptane | inhalation | LC ₅₀ | rat | 4 h | > 4951 mg/l | / | / |
| acetic acid | oral | LD ₅₀ | rat | / | 3310 mg/kg | / | / |
| acetic acid | inhalation | LC ₅₀ | rat | 4 h | 40 mg/l | / | / |
| 2-methylpropan-1-ol | inhalation | LC ₅₀ | rat | 4 h | 24.6 mg/l | / | / |
| 2-methylpropan-1-ol | oral | LD ₅₀ | rat | / | > 2830 mg/kg | / | / |
| 2-methylpropan-1-ol | dermal | LD ₅₀ | rabbit | / | > 2000 mg/kg | / | / |
| hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | oral | LD ₅₀ | rat | / | > 5000 mg/kg | / | / |
| hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | dermal | LD ₅₀ | rabbit | / | > 5000 mg/kg | / | / |
| hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | inhalation | LC ₅₀ | rat | 8 h | > 5000 mg/m ³ | / | / |
| 2,2'-(octadec-9-enylimino)bisethanol | oral | LD ₅₀ | rat | / | 1260 mg/kg | / | / |

Additional information

The product is not classified for acute toxicity.

(b) Skin corrosion/irritation

No information.

Additional information

Causes skin irritation.

(c) Serious eye damage/irritation

No information.

Additional information

Causes serious eye damage.

(d) Respiratory or skin sensitisation

No information.

Additional information

The product is not classified as sensitising.

(e) (Germ cell) mutagenicity

No information.

(f) Carcinogenicity

No information.

(g) Reproductive toxicity

No information.

Summary of evaluation of the CMR properties

The product is not classified as carcinogenic, mutagenic or toxic for reproduction.

(h) STOT-single exposure

No information.

Additional information

STOT SE (single exposure): Not classified.

(i) STOT-repeated exposure

No information.

Additional information

STOT RE (repeated exposure): Not classified.

(j) Aspiration hazard

No information.

Additional information

Aspiration hazard: Not classified.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute (short-term) toxicity

For components

| NAME | TYPE | VALUE | EXPOSURE TIME | SPECIES | ORGANISM | METHOD | REMARK |
|--|------------------|--------------|---------------|-----------|----------------------------|--------|--------|
| 2-butoxyethanol | LC ₅₀ | 1.474 mg/L | 96 h | fish | <i>Lepomis macrochirus</i> | / | / |
| 2-butoxyethanol | EC ₅₀ | 1.55 | 48 h | crustacea | <i>Daphnia magna</i> | / | / |
| 2-butoxyethanol | EC ₅₀ | 1.84 mg/L | 72 h | algae | / | / | / |
| (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines | LC ₅₀ | < 0.06 | 96 h | fish | / | / | / |
| (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines | EC ₅₀ | < 0.011 mg/L | 48 h | crustacea | / | / | / |

| | | | | | | | |
|---|------------------|---------------|------|-----------|--|---|---|
| (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines | EC ₅₀ | < 0.46 mg/L | 72 h | algae | / | / | / |
| fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | LC ₅₀ | 1.91 | 96 h | fish | / | / | / |
| fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | EC ₅₀ | 2.23 mg/L | 48 h | crustacea | / | / | / |
| fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | EC ₅₀ | 2.14 mg/L | 72 h | algae | / | / | / |
| 2,2,4,6,6-pentamethylheptane | LC ₅₀ | > 1000 | 96 h | fish | / | / | / |
| acetic acid | LC ₅₀ | > 300.82 mg/L | 96 h | fish | / | / | / |
| acetic acid | EC ₅₀ | > 300.82 mg/L | 48 h | crustacea | / | / | / |
| acetic acid | EC ₅₀ | > 300.82 mg/L | 72 h | algae | / | / | / |
| 2-methylpropan-1-ol | LC ₅₀ | 1430 | 96 h | fish | / | / | / |
| 2-methylpropan-1-ol | EC ₅₀ | 1000 mg/L | 48 h | crustacea | / | / | / |
| 2-methylpropan-1-ol | EC ₅₀ | 1799 mg/L | 72 h | algae | / | / | / |
| hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | LC ₅₀ | > 1000 | 96 h | fish | / | / | / |
| hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | EC ₅₀ | > 1000 | 48 h | crustacea | <i>Daphnia magna</i> | / | / |
| hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | EC ₅₀ | > 1000 mg/L | 72 h | algae | <i>Pseudokirchneriella subcapitata</i> | / | / |
| 2,2'-(octadec-9-enylimino)bisethanol | LC ₅₀ | 100 µg/l | / | fish | <i>Carrasius auratus</i> | / | / |
| 2,2'-(octadec-9-enylimino)bisethanol | EC ₅₀ | 43 µg/l | / | crustacea | <i>Daphnia</i> | / | / |
| 2,2'-(octadec-9-enylimino)bisethanol | EC ₅₀ | 53.8 µg/l | / | algae | / | / | / |
| 2,2'-(octadec-9-enylimino)bisethanol | EC ₁₀ | 10.7 µg/l | / | algae | / | / | / |

Chronic (long-term) toxicity
For components

| NAME | TYPE | VALUE | EXPOSURE TIME | SPECIES | ORGANISM | METHOD | REMARK |
|------|------|-------|---------------|---------|----------|--------|--------|
|------|------|-------|---------------|---------|----------|--------|--------|

| | | | | | | | |
|--|------|------------|---|-----------|---|---|---|
| 2-butoxyethanol | NOEC | > 100 mg/l | / | fish | / | / | / |
| 2-butoxyethanol | NOEC | 100 mg/l | / | crustacea | / | / | / |
| (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines | NOEC | 0.013 mg/l | / | algae | / | / | / |

12.2 Persistence and degradability

Abiotic degradation, physical- and photo-chemical elimination

No information.

Biodegradation

For components

| NAME | TYPE | RATE | TIME | EVALUATION | METHOD | REMARK |
|---|------|------|------|-----------------------|--------|--------|
| 2-butoxyethanol | - | / | / | rapidly biodegradable | / | / |
| (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines | - | / | / | rapidly biodegradable | / | / |
| fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | - | / | / | rapidly biodegradable | / | / |
| 2,2,4,6,6-pentamethylheptane | - | / | / | rapidly biodegradable | / | / |
| acetic acid | - | / | / | rapidly biodegradable | / | / |
| 2-methylpropan-1-ol | - | / | / | rapidly biodegradable | / | / |
| hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | - | / | / | rapidly biodegradable | / | / |
| 2,2'-(octadec-9-enylimino)bisethanol | - | / | / | rapidly biodegradable | / | / |

12.3 Bioaccumulative potential

Partition coefficient

For components

| NAME | MEDIA | VALUE | TEMPERATURE | PH | CONCENTRATION | METHOD |
|---------------------|-------------------------|-------|-------------|----|---------------|--------|
| 2-butoxyethanol | Octanol-water (log Pow) | 0.81 | / | / | / | / |
| acetic acid | Octanol-water (log Pow) | 0.17 | / | / | / | / |
| 2-methylpropan-1-ol | Octanol-water (log Pow) | 1 | / | / | / | / |

Bioconcentration factor (BCF)

For components

| NAME | SPECIES | ORGANISM | VALUE | DURATION | EVALUATION | METHOD | REMARK |
|------|---------|----------|-------|----------|------------|--------|--------|
|------|---------|----------|-------|----------|------------|--------|--------|

| | | | | | | | |
|-----------------|-----|---|-----|---|---|---|---|
| 2-butoxyethanol | BCF | / | 2.5 | / | / | / | / |
|-----------------|-----|---|-----|---|---|---|---|

12.4 Mobility in soil

Known or predicted distribution to environmental compartments

No information.

Surface tension

No information.

Adsorption/Desorption

For components

| NAME | TYPE | CRITERION | VALUE | EVALUATION | METHOD | REMARK |
|---------------------|------|-----------|-------|------------|--------|---------------------------------------|
| acetic acid | Soil | / | 1.153 | / | / | soil / water distribution coefficient |
| 2-methylpropan-1-ol | Soil | / | 0.31 | / | / | soil / water distribution coefficient |

12.5 Results of PBT and vPvB assessment

The product does not contain any PBT or vPvB substances in percentages greater than 0.1%.

12.6 Other adverse effects

No information.

12.7 Additional information

For product

Very toxic to aquatic life with long lasting effects. Do not allow to reach ground water, water courses or sewage system.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product / Packaging disposal

Waste chemical

Dispose of in accordance with applicable waste disposal regulation. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste. Do not allow product to reach drains/sewage systems.

Waste codes / waste designations according to LoW

No information.

Packaging

Dispose of in accordance with applicable waste disposal regulation. Deliver completely emptied containers to approved waste disposal authorities.

Waste codes / waste designations according to LoW

No information.

Waste treatment-relevant information

No information.

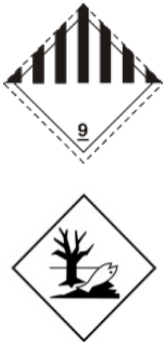
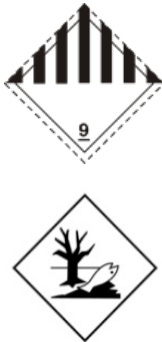
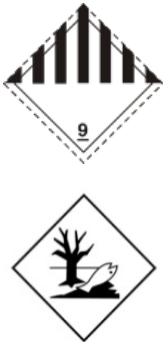
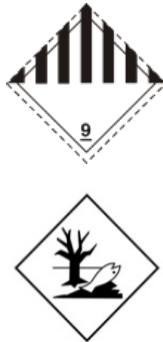
Sewage disposal-relevant information

No information.

Other disposal recommendations

No information.

SECTION 14: TRANSPORT INFORMATION

| ADR/RID | IMDG | IATA | ADN |
|--|--|---|--|
| 14.1 UN number | | | |
| UN 3082 | UN 3082 | UN 3082 | UN 3082 |
| 14.2 UN proper shipping name | | | |
| ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| 14.3 Transport hazard class(es) | | | |
| 9 | 9 | 9 | 9 |
|  |  |  |  |
| 14.4 Packing group | | | |
| III | III | III | III |
| 14.5 Environmental hazards | | | |
| YES | Marine pollutant | YES | YES |
| 14.6 Special precautions for user | | | |
| Limited quantities 5 L Transport category 3 Tunnel restriction code (-) | Limited quantities 5 L EmS F-A, S-F Special provisions 274, 335, 375, 601 Packing Instructions P001, IBC03, LP01, R001 Special packing provisions PP1 Tank instructions T4 Tank special provisions TP1, TP29 Excepted quantities 32 IBC Packing Instructions 32 | Limited Quantity Packing Instructions Y964 Limited Quantity Net Qty 30 kg G Passenger Packing Instruction Packing Instructions 964 Passenger Packing Instruction Net Qty 25 L Cargo Packing Instruction Packing Instructions 964 Cargo Packing Instruction Net Qty 25 L Special provisions A97, A158, A197 | Limited quantities 5 L |
| 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | | | |
| Goods may not be carried in bulk in bulk containers, containers or vehicles. | Goods may not be carried in bulk in bulk containers, containers or vehicles. | Not given/not applicable | Not given/not applicable |

SECTION 15: REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)(including last amendment Commission Regulation (EU) 2015/830)
- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline) not applicable

Regulation EC 648/2004 on detergents

No information.

Special instructions

Observe the regulations on employment and protection against dangerous substances for young people, pregnant women and nursing mothers. Seveso: E1 - Hazardous to the aquatic environment. Regulation (EC) No. 1907/2006 (REACH) Annex XVII - Terms of restriction: 3, 40.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: OTHER INFORMATION

Indication of changes

3.2 Mixtures 7.2 Conditions for safe storage, including any incompatibilities 8.1 Control parameters 11.1 Information on toxicological effects 12.1 Toxicity 12.2 Persistence and degradability 12.3 Bioaccumulative potential 12.4 Mobility in soil 12.7 Additional information

Key literature references and sources for data

No information.

Abbreviations and acronyms

ATE - Acute Toxicity Estimate
 ADR - Agreement concerning the International Carriage of Dangerous Goods by Road
 ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
 CEN - European Committee for Standardisation
 C&L - Classification and Labelling
 CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
 CAS# - Chemical Abstracts Service number
 CMR - Carcinogen, Mutagen, or Reproductive Toxicant
 CSA - Chemical Safety Assessment
 CSR - Chemical Safety Report
 DMEL - Derived Minimal Effect Level
 DNEL - Derived No Effect Level
 DPD - Dangerous Preparations Directive 1999/45/EC
 DSD - Dangerous Substances Directive 67/548/EEC
 DU - Downstream User
 EC - European Community
 ECHA - European Chemicals Agency
 EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)
 EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)
 EEC - European Economic Community
 EINECS - European Inventory of Existing Commercial Substances
 ELINCS - European List of notified Chemical Substances
 EN - European Standard
 EQS - Environmental Quality Standard
 EU - European Union
 Euphrac - European Phrase Catalogue
 EWC - European Waste Catalogue (replaced by LoW – see below)
 GES - Generic Exposure Scenario

GHS - Globally Harmonized System
 IATA - International Air Transport Association
 ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air
 IMDG - International Maritime Dangerous Goods
 IMSBC - International Maritime Solid Bulk Cargoes
 IT - Information Technology
 IUCLID - International Uniform Chemical Information Database
 IUPAC - International Union for Pure Applied Chemistry
 JRC - Joint Research Centre
 Kow - octanol-water partition coefficient
 LC50 - Lethal Concentration to 50 % of a test population
 LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
 LE - Legal Entity
 LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)
 LR - Lead Registrant
 M/I - Manufacturer / Importer
 MS - Member States
 MSDS - Material Safety Data Sheet
 OC - Operational Conditions
 OECD - Organization for Economic Co-operation and Development
 OEL - Occupational Exposure Limit
 OJ - Official Journal
 OR - Only Representative
 OSHA - European Agency for Safety and Health at work
 PBT - Persistent, Bioaccumulative and Toxic substance
 PEC - Predicted Effect Concentration
 PNEC(s) - Predicted No Effect Concentration(s)
 PPE - Personal Protection Equipment
 (Q)SAR - Qualitative Structure Activity Relationship
 REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
 RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
 RIP - REACH Implementation Project
 RMM - Risk Management Measure
 SCBA - Self-Contained Breathing Apparatus
 SDS - Safety data sheet
 SIEF - Substance Information Exchange Forum
 SME - Small and Medium sized Enterprises
 STOT - Specific Target Organ Toxicity
 (STOT) RE - Repeated Exposure
 (STOT) SE - Single Exposure
 SVHC - Substances of Very High Concern
 UN - United Nations
 vPvB - Very Persistent and Very Bioaccumulative

List of relevant H phrases

H226 Flammable liquid and vapour.
 H302 Harmful if swallowed.
 H304 May be fatal if swallowed and enters airways.
 H312 Harmful in contact with skin.
 H314 Causes severe skin burns and eye damage.
 H314 Causes severe skin burns and eye damage.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H373 May cause damage to organs through prolonged or repeated exposure.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.
 H410 Very toxic to aquatic life with long lasting effects.
 H413 May cause long lasting harmful effects to aquatic life.