

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Trade name: W4 Kühlschmierstoff

Version number: 2.0
Replaces version of: 12.05.2015 (1)

revision: 05.12.2018

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

1.1 Product identifier

Trade name **W4 Kühlschmierstoff**
Registration number (REACH) not relevant (mixture)

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

Relevant identified uses Cooling lubricant
Uses advised against For professional users only.
Do not use for private purposes (household).

1.3 Details of the supplier of the safety data sheet

Eurolub Gmb
Freisinger Str. 25 - 27
85386 Eching
Germany
Telefon: +49 8165 / 9591-0
Telefax: +49 8165 / 9591-20
Mail: info@eurolub.com
Webseite: www.eurolub.com

1.4 Emergency telephone number

Emergency information service **+49 8165 / 9591-0**
This number is only available during the following of-fice hours:
Mo-Th. 07:30 bis 16:00; Fr. 07.30 bis 14:00

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

hazard class and category hazard statements
3.2/2: Skin Irrit. 2, 3.3/1: Eye Dam. 1, 4.1C/3: Aquat- H315, H318, H412
ic Chronic 3

Supplemental hazard information

Code. Supplemental hazard information.
EUH208 Contains 3-iodo-2-propynyl butylcarbamate. May produce an allergic reaction.

The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

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

Signal word **Danger**

Pictograms

GHS05



Hazard statements

H315 Causes skin irritation.
H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

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| | |
|----------------|--|
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P302+P352 | IF ON SKIN: Wash with plenty of water. |
| 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/doctor. |
| P321 | Specific treatment (see on this label). |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| P501 | Dispose of contents/container to proper recycling. |

Precautionary statements - disposal

P501 Dispose of contents/container to proper recycling.

Additional labelling requirements

EUH208 Contains 3-iodo-2-propynyl butylcarbamate. May produce an allergic reaction.

Hazardous ingredients for labelling: Ethoxiliertes Fettsäuremonoethanolamid

2.3 Other hazards

The product is a water-polluting liquid. When properly used, no hazards are expected.

SECTION 3: Composition/information on ingredients

3.1 Substances

not relevant (mixture)

3.2 Mixtures

Description of the mixture

Mixture of the substances listed below with harmless additions.

| Name of substance | Identifier | wt% | Classification acc. to 1272/2008/EC |
|--|--|-----------|--|
| Distillates (petroleum), hydrotreated light naphthenic | CAS No 64742-53-6 EC No 265-156-6 REACH Reg. No 01-2119480375-34-xxxx | 50 - < 75 | Asp. Tox. 1 / H304 |
| Alcohols, C16-18 and C18-unsatd., ethoxylated | CAS No 68920-66-1 EC No 500-236-9 REACH Reg. No 01-2119489407-26-xxxx | 3 - < 5 | Skin Irrit. 2 / H315 Aquatic Chronic 2 / H411 |
| 3,3'-Methylenbis[5-methyloxazolidin] | CAS No 66204-44-2 EC No 266-235-8 | 1 - < 3 | Acute Tox. 4 / H302 Acute Tox. 4 / H332 Skin Corr. 1C / H314 |
| Ethoxiliertes Fettsäuremonoethanolamid | CAS No 157707-44-3 | 1 - < 3 | Eye Dam. 1 / H318 |
| 2-(2-butoxyethoxy)ethanol | CAS No 112-34-5 EC No 203-961-6 REACH Reg. No 01-2119475104-44-xxxx | 1 - < 3 | Eye Irrit. 2 / H319 |

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| Name of substance | Identifier | wt% | Classification acc. to 1272/2008/EC |
|----------------------------------|--|-------|--|
| 3-iodo-2-propynyl butylcarbamate | CAS No 55406-53-6 EC No 259-627-5 REACH Reg. No 01-2120762115-60-xxxx | < 0,5 | Acute Tox. 4 / H302 Acute Tox. 3 / H331 Eye Dam. 1 / H318 Skin Sens. 1 / H317 STOT RE 1 / H372 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410 |

For full text of abbreviations: see SECTION 16

Water-miscible cutting fluid concentrate.

Free from organically bound chlorine.

Mineral oil: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions - Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.(1272/2008/EC, Annex VI, CLP note L).

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, Alcohol resistant foam, Carbon dioxide (CO₂), Co-ordinate firefighting measures to the fire surroundings

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Nitrogen oxides (NO_x), Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety. Special danger of slipping by leaking/spilling product.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advices on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: Sweeping compounds (oil absorbing).

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

• Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feed-stuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

Incompatible substances or mixtures

Observe hints for combined storage. Keep only in original container. Keep container tightly closed. Do not store together with oxidizing and acidic materials.

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

| Country | Name of agent | CAS No | Identifier | TWA [ppm] | TWA [mg/m ³] | STEL [ppm] | STEL [mg/m ³] | Ceiling-C [ppm] | Ceiling-C [mg/m ³] | Notation | Source |
|---------|----------------------------------|------------|------------|-----------|--------------------------|------------|---------------------------|-----------------|--------------------------------|----------|----------|
| DE | 2-(2-butoxyethoxy)ethanol | 112-34-5 | AGW | 10 | 67 | 15 | 100,5 | | | va | TRGS 900 |
| DE | 3-iodo-2-propynyl butylcarbamate | 55406-53-6 | AGW | 0,005 | 0,058 | 0,01 | 0,116 | | | | TRGS 900 |
| DE | 3-iodo-2-propynyl butylcarbamate | 55406-53-6 | MAK | 0,005 | 0,058 | 0,01 | 0,116 | | | | DFG |

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| Country | Name of agent | CAS No | Identifier | TWA [ppm] | TWA [mg/m ³] | STEL [ppm] | STEL [mg/m ³] | Ceiling-C [ppm] | Ceiling-C [mg/m ³] | Notation | Source |
|---------|---------------------------|----------|------------|-----------|--------------------------|------------|---------------------------|-----------------|--------------------------------|----------|--------------|
| EU | 2-(2-butoxyethoxy)ethanol | 112-34-5 | IOEL V | 10 | 67,5 | 15 | 101,2 | | | | 2017/2398/EU |

Notation

Ceiling-C Ceiling value is a limit value above which exposure should not occur
 STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
 TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)
 va As vapours and aerosols

Relevant DNELs/DMELs/PNECs and other threshold levels

• relevant DNELs of components of the mixture

| Name of substance | CAS No | Endpoint | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
|---|------------|----------|-------------------------|------------------------------------|-------------------|----------------------------|
| Alcohols, C16-18 and C18-unsatd., ethoxylated | 68920-66-1 | DNEL | 2.080 mg/kg | human, dermal | worker (industry) | chronic - systemic effects |
| Alcohols, C16-18 and C18-unsatd., ethoxylated | 68920-66-1 | DNEL | 294 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| 2-(2-butoxyethoxy)ethanol | 112-34-5 | DNEL | 101,2 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |
| 2-(2-butoxyethoxy)ethanol | 112-34-5 | DNEL | 67,5 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| 2-(2-butoxyethoxy)ethanol | 112-34-5 | DNEL | 20 mg/kg | human, dermal | worker (industry) | chronic - systemic effects |
| 2-(2-butoxyethoxy)ethanol | 112-34-5 | DNEL | 67,5 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| 3-iodo-2-propynyl butylcarbamate | 55406-53-6 | DNEL | 0,023 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| 3-iodo-2-propynyl butylcarbamate | 55406-53-6 | DNEL | 0,07 mg/m ³ | human, inhalatory | worker (industry) | acute - systemic effects |
| 3-iodo-2-propynyl butylcarbamate | 55406-53-6 | DNEL | 1,16 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| 3-iodo-2-propynyl butylcarbamate | 55406-53-6 | DNEL | 1,16 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |
| 3-iodo-2-propynyl butylcarbamate | 55406-53-6 | DNEL | 2 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |

• relevant PNECs of components of the mixture

| Name of substance | CAS No | Endpoint | Threshold level | Organism | Environmental compartment | Exposure time |
|---|------------|----------|-----------------|-------------------|---------------------------|------------------------------|
| Distillates (petroleum), hydro-treated light naphthenic | 64742-53-6 | PNEC | 9,33 mg/kg | (top) predators | water | short-term (single instance) |
| Alcohols, C16-18 and C18-unsatd., ethoxylated | 68920-66-1 | PNEC | 0,002 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| Alcohols, C16-18 and C18-unsatd., ethoxylated | 68920-66-1 | PNEC | 0,002 mg/l | aquatic organisms | marine water | short-term (single instance) |

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| Name of substance | CAS No | End-point | Threshold level | Organism | Environmental compartment | Exposure time |
|---|------------|-----------|------------------------|-----------------------|------------------------------|------------------------------|
| Alcohols, C16-18 and C18-unsatd., ethoxylated | 68920-66-1 | PNEC | 10 ^{g/l} | microorganisms | sewage treatment plant (STP) | short-term (single instance) |
| Alcohols, C16-18 and C18-unsatd., ethoxylated | 68920-66-1 | PNEC | 6,33 ^{mg/kg} | benthic organisms | sediments | short-term (single instance) |
| Alcohols, C16-18 and C18-unsatd., ethoxylated | 68920-66-1 | PNEC | 6,33 ^{mg/kg} | pelagic organisms | sediments | short-term (single instance) |
| Alcohols, C16-18 and C18-unsatd., ethoxylated | 68920-66-1 | PNEC | 1 ^{mg/kg} | terrestrial organisms | soil | short-term (single instance) |
| Alcohols, C16-18 and C18-unsatd., ethoxylated | 68920-66-1 | PNEC | 0,51 ^{mg/l} | aquatic organisms | water | intermittent release |
| 2-(2-butoxyethoxy)ethanol | 112-34-5 | PNEC | 1 ^{mg/l} | aquatic organisms | freshwater | short-term (single instance) |
| 2-(2-butoxyethoxy)ethanol | 112-34-5 | PNEC | 0,1 ^{mg/l} | aquatic organisms | marine water | short-term (single instance) |
| 2-(2-butoxyethoxy)ethanol | 112-34-5 | PNEC | 200 ^{mg/l} | microorganisms | sewage treatment plant (STP) | short-term (single instance) |
| 2-(2-butoxyethoxy)ethanol | 112-34-5 | PNEC | 4 ^{mg/kg} | benthic organisms | sediments | short-term (single instance) |
| 2-(2-butoxyethoxy)ethanol | 112-34-5 | PNEC | 0,4 ^{mg/kg} | pelagic organisms | sediments | short-term (single instance) |
| 2-(2-butoxyethoxy)ethanol | 112-34-5 | PNEC | 56 ^{mg/kg} | (top) predators | water | short-term (single instance) |
| 2-(2-butoxyethoxy)ethanol | 112-34-5 | PNEC | 0,4 ^{mg/kg} | terrestrial organisms | soil | short-term (single instance) |
| 2-(2-butoxyethoxy)ethanol | 112-34-5 | PNEC | 3,9 ^{mg/l} | aquatic organisms | water | intermittent release |
| 3-iodo-2-propynyl butylcarbamate | 55406-53-6 | PNEC | 0,001 ^{mg/l} | aquatic organisms | freshwater | short-term (single instance) |
| 3-iodo-2-propynyl butylcarbamate | 55406-53-6 | PNEC | 0 ^{mg/l} | aquatic organisms | marine water | short-term (single instance) |
| 3-iodo-2-propynyl butylcarbamate | 55406-53-6 | PNEC | 0,44 ^{mg/l} | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| 3-iodo-2-propynyl butylcarbamate | 55406-53-6 | PNEC | 0,017 ^{mg/kg} | aquatic organisms | freshwater sediment | short-term (single instance) |
| 3-iodo-2-propynyl butylcarbamate | 55406-53-6 | PNEC | 0,002 ^{mg/kg} | aquatic organisms | marine sediment | short-term (single instance) |
| 3-iodo-2-propynyl butylcarbamate | 55406-53-6 | PNEC | 0,005 ^{mg/kg} | terrestrial organisms | soil | short-term (single instance) |

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

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Skin protection

• hand protection

Preventive skin protection (barrier creams/ointments) is recommended. Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. Replace when worn.

• breakthrough times of the glove material

>240 minutes (permeation: level 5)

• recommended protective gloves (trademark/manufacturer)

Camatril Velours 730, KCL

Respiratory protection

Local and general ventilation. In case of insufficient ventilation, wear suitable respiratory equipment: Type: A (against organic gases and vapours with a boiling point of > 65 °C, colour code: Brown).

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

| | |
|----------------|----------------|
| Physical state | liquid |
| Colour | brown |
| Odour | characteristic |

Other physical and chemical parameters

| | |
|---|---|
| pH (value) | 9,3 (water: 50 g/l, 20 °C) |
| Melting point/freezing point | not determined |
| Initial boiling point and boiling range | not determined |
| Flash point | >150 °C (ISO 2592) |
| Evaporation rate | not determined |
| Flammability (solid, gas) | not relevant (fluid) |
| Explosive limits | |
| • lower explosion limit (LEL) | 0,7 vol% |
| • upper explosion limit (UEL) | 5,3 vol% |
| Vapour pressure | not determined |
| Density | 0,943 g/cm ³ at 20 °C (DIN 51757) |
| Solubility(ies) | |
| Water solubility | soluble - miscible in any proportion |
| Partition coefficient | |
| n-octanol/water (log KOW) | This information is not available. |
| Auto-ignition temperature | not determined |
| Viscosity | |
| • kinematic viscosity | 70 mm ² /s at 40 °C (DIN EN 16896) |
| Explosive properties | none |
| Oxidising properties | none |

9.2 Other information

These information are not available.

There is no additional information.

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SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5 Incompatible materials

Strong oxidiser

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

• Acute toxicity of components of the mixture

| Name of substance | CAS No | Exposure route | ATE |
|--------------------------------------|------------|-----------------------|---------------|
| 3,3'-Methylenbis[5-methyloxazolidin] | 66204-44-2 | oral | 1.000 mg/kg |
| 3,3'-Methylenbis[5-methyloxazolidin] | 66204-44-2 | inhalation: gas | 5.000 ppmV/4h |
| 3,3'-Methylenbis[5-methyloxazolidin] | 66204-44-2 | inhalation: vapour | 11 mg/l/4h |
| 3-iodo-2-propynyl butylcarbamate | 55406-53-6 | oral | 1.795 mg/kg |
| 3-iodo-2-propynyl butylcarbamate | 55406-53-6 | inhalation: dust/mist | 0,5 mg/l/4h |

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Contains 3-iodo-2-propynyl butylcarbamate. May produce an allergic reaction.

Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

Specific target organ toxicity (STOT)

Shall not be classified as a specific target organ toxicant.

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Information on toxicological effects

When used and handled according to specifications, the product does to our experience and the information provided to us, no adverse health effects.

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SECTION 12: Ecological information

12.1 Toxicity

Harmful to aquatic life.

Aquatic toxicity (acute)

Aquatic toxicity (acute) of components of the mixture

| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
|---|------------|----------|------------|-----------------------|---------------|
| Alcohols, C16-18 and C18-unsatd., ethoxylated | 68920-66-1 | LC50 | 108 mg/l | fish | 96 h |
| 2-(2-butoxyethoxy)ethanol | 112-34-5 | LC50 | 1.300 mg/l | fish | 96 h |
| 2-(2-butoxyethoxy)ethanol | 112-34-5 | ErC50 | >100 mg/l | algae | 96 h |
| 2-(2-butoxyethoxy)ethanol | 112-34-5 | EC50 | >100 mg/l | aquatic invertebrates | 48 h |
| 3-iodo-2-propynyl butylcarbamate | 55406-53-6 | LC50 | 0,24 mg/l | aquatic invertebrates | 24 h |
| 3-iodo-2-propynyl butylcarbamate | 55406-53-6 | EC50 | 22 µg/l | algae | 72 h |
| 3-iodo-2-propynyl butylcarbamate | 55406-53-6 | ErC50 | 53 µg/l | algae | 72 h |

Aquatic toxicity (chronic)

May cause long-term adverse effects in the aquatic environment.

Aquatic toxicity (chronic) of components of the mixture

| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
|----------------------------------|------------|----------|----------|----------------|---------------|
| 3-iodo-2-propynyl butylcarbamate | 55406-53-6 | ErC50 | 0,1 mg/l | algae | 120 h |
| 3-iodo-2-propynyl butylcarbamate | 55406-53-6 | EC50 | 44 mg/l | microorganisms | 3 h |

12.2 Persistence and degradability

Degradability of components of the mixture

| Name of substance | CAS No | Process | Degradation rate | Time |
|---|------------|---------------------------|------------------|------|
| Alcohols, C16-18 and C18-unsatd., ethoxylated | 68920-66-1 | carbon dioxide generation | 99 % | 28 d |
| 2-(2-butoxyethoxy)ethanol | 112-34-5 | oxygen depletion | 85 % | 28 d |
| 3-iodo-2-propynyl butylcarbamate | 55406-53-6 | carbon dioxide generation | 4 % | 1 d |

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture

| Name of substance | CAS No | BCF | Log KOW | BOD5/COD |
|----------------------------------|------------|-----|---------------------------|----------|
| 2-(2-butoxyethoxy)ethanol | 112-34-5 | | 0,56 (pH value: 7, 20 °C) | |
| 3-iodo-2-propynyl butylcarbamate | 55406-53-6 | | 2,81 (25 °C) | |

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Other adverse effects

Data are not available.

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Endocrine disrupting potential

None of the ingredients are listed.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Relevant provisions relating to waste

List of wastes

Concentrate: 12 01 07x

Emulsion: 12 01 09x

Dispose of contents/container in accordance with local/regional/national/international regulations

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

- | | | |
|-------------|--|--|
| 14.1 | UN number | (not subject to transport regulations) |
| 14.2 | UN proper shipping name | not relevant |
| 14.3 | Transport hazard class(es) Class | - |
| 14.4 | Packing group | not relevant |
| 14.5 | Environmental hazards | none (non-environmentally hazardous acc. to the dangerous goods regulations) |
| 14.6 | Special precautions for user There is no additional information. | |
| 14.7 | Transport in bulk according to Annex II of MARPOL and the IBC Code The cargo is not intended to be carried in bulk. | |

Information for each of the UN Model Regulations

- **Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)**

Not subject to ADR, RID and ADN.

- **International Maritime Dangerous Goods Code (IMDG)**

Not subject to IMDG.

- **International Civil Aviation Organization (ICAO-IATA/DGR)**

Not subject to ICAO-IATA.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture **Relevant provisions of the European Union (EU)**

- **List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list**

None of the ingredients are listed.

VOC content

0 %

- **Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)**

None of the ingredients are listed.

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National regulations (Germany)

- **Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV)**

Wassergefährdungsklasse (WGK): 2 (obviously hazardous to water)

- **Storage of hazardous substances in non-stationary containers (TRGS 510) (Germany)**

Storage class (LGK): 10 (combustible liquids)

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

16.1 Indication of changes (revised safety data sheet)

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Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations |
|------------------------|---|
| 1272/2008/EC, Annex VI | Harmonised classification and labelling for certain hazardous substances |
| 2017/2398/EU | Directive of the European Parliament and of the Council amending Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work |
| Acute Tox. | Acute toxicity |
| ADN | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) |

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| Abbr. | Descriptions of used abbreviations |
|-----------------|---|
| ADR | Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road) |
| AGW | Workplace exposure limit |
| Aquatic Acute | Hazardous to the aquatic environment - acute hazard |
| Aquatic Chronic | Hazardous to the aquatic environment - chronic hazard |
| Asp. Tox. | Aspiration hazard |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| BOD | Biochemical Oxygen Demand |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| Ceiling-C | Ceiling value |
| CLP | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures |
| CMR | Carcinogenic, Mutagenic or toxic for Reproduction |
| COD | Chemical oxygen demand |
| DFG | Deutsche Forschungsgemeinschaft MAK- und BAT-Werte-Liste, Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Wiley-VCH, Weinheim |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| DMEL | Derived Minimal Effect Level |
| DNEL | Derived No-Effect Level |
| EC No | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union) |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| ELINCS | European List of Notified Chemical Substances |
| Eye Dam. | Seriously damaging to the eye |
| Eye Irrit. | Irritant to the eye |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations |
| IATA | International Air Transport Association |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods Code |
| IOELV | Indicative occupational exposure limit value |
| LGK | Lagerklasse (storage class according to TRGS 510, Germany) |
| log KOW | n-Octanol/water |
| MARPOL | International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant") |
| NLP | No-Longer Polymer |
| PBT | Persistent, Bioaccumulative and Toxic |
| PNEC | Predicted No-Effect Concentration |
| ppm | Parts per million |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) |
| Skin Corr. | Corrosive to skin |

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| Abbr. | Descriptions of used abbreviations |
|-------------|--|
| Skin Irrit. | Irritant to skin |
| Skin Sens. | Skin sensitisation |
| STEL | Short-term exposure limit |
| STOT RE | Specific target organ toxicity - repeated exposure |
| SVHC | Substance of Very High Concern |
| TRGS | Technische Regeln für GefahrStoffe (technical rules for hazardous substances, Germany) |
| TRGS 900 | Arbeitsplatzgrenzwerte (TRGS 900) |
| TWA | Time-weighted average |
| VOC | Volatile Organic Compounds |
| vPvB | Very Persistent and very Bioaccumulative |

Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU
- Regulation (EC) No. 1272/2008 (CLP, EU GHS)

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards/environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

| Code | Text |
|------|---|
| 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. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.