

Trade name: Top Star**Product no.:** 132999**Current version :** 2.0.0, issued: 18.01.2022**Replaced version:** 1.0.0, issued: 09.12.2020**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****Top Star****1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

Cleaner

car care product

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet**Address**

Koch-Chemie GmbH

Einsteinstr. 42

D-59423 Unna

Telephone no. +49-2303-9 86 70-0

Fax no. +49-2303-9 86 70-26

Advice on Safety Data Sheet

sdb_info@umco.de

1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

For information in the event of an emergency during transport:

+44 1865 407333

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Aquatic Chronic 3; H412

Skin Sens. 1; H317

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

GHS07

Signal word

Warning

Hazardous component(s) to be indicated on label:

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2-octyl-2H-isothiazol-3-one

Hazard statement(s)H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.**Precautionary statement(s)**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Supplemental label elements

Regulation (EC) No 648/2004 on detergents (Annex VII):

<5% non-ionic surfactants

Perfumings

LIMONENE

2-BROMO-2-NITROPROPANE-1,3-DIOL

OCTYLISOTHIAZOLINONE

2.3 Other hazards

PBT assessment

According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be PBT.

vPvB assessment

According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be vPvB.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not applicable. The product is not a substance.

3.2 Mixtures**Hazardous ingredients**

| No | Substance name | | Additional information | |
|----|---|--|-----------------------------------|-----|
| | CAS / EC / Index / REACH no | Classification (EC) 1272/2008 (CLP) | Concentration | % |
| 1 | 2-butoxyethanol | | | |
| | 111-76-2 203-905-0 603-014-00-0 01-2119475108-36 | Acute Tox. 4; H302 Acute Tox. 4; H312 Acute Tox. 4; H332 Eye Irrit. 2; H319 Skin Irrit. 2; H315 | < 5.00 | wt% |
| 2 | Siloxanes and Silicones, di-Me, 3-[3-[(3-cocoamidopropyl)dimethylammonio]-2-hydroxypropoxy]propyl group-terminated, acetates (salts) | | | |
| | 134737-05-6 - - - | Aquatic Acute 1; H400 Aquatic Chronic 2; H411 | < 0.50 | wt% |
| 3 | bronopol | | pls. refer to footnote (1) | |
| | 52-51-7 200-143-0 603-085-00-8 - | Acute Tox. 4*; H302 Acute Tox. 4*; H312 Aquatic Acute 1; H400 Eye Dam. 1; H318 Skin Irrit. 2; H315 STOT SE 3; H335 Aquatic Chronic 2; H411 | < 0.10 | wt% |

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| | | | | |
|---|--|---|--------|-----|
| 4 | 2-octyl-2H-isothiazol-3-one | | | |
| | 26530-20-1 247-761-7 613-112-00-5 - | Acute Tox. 3; H301 Acute Tox. 3; H311 Skin Corr. 1; H314 Skin Sens. 1A; H317 Eye Dam. 1; H318 Acute Tox. 2; H330 Aquatic Chronic 1; H410 Aquatic Acute 1; H400 EUH071 | < 0.10 | wt% |

Full Text for all H-phrases and EUH-phrases: pls. see section 16

(*, **, ***, ****) Detailed explanation pls. refer to CLP regulation No. 1272/2008, annex VI, 1.2

(1) Aberrant from/in addition to the classification set out in Annex VI, this substance is classified according to European Regulation (EC) No 1272/2008 (CLP), Article 4 (3), paragraph 2.

| No | Note | Specific concentration limits | M-factor (acute) | M-factor (chronic) |
|----|------|---------------------------------------|------------------|--------------------|
| 3 | - | - | M = 10 | - |
| 4 | - | Skin Sens. 1A; H317: C \geq 0.0015% | M = 100 | M = 100 |

Acute toxicity estimate (ATE) values

| No | oral | dermal | inhalative |
|----|-----------------------|--------|------------|
| 1 | 1746 mg/kg bodyweight | | |

SECTION 4: First aid measures**4.1 Description of first aid measures****General information**

Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. In case of allergic symptoms, especially respiratory tract related, seek medical help immediately.

After inhalation

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air.

After skin contact

Wash off immediately with soap and water. Consult a doctor if skin irritation persists.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get medical attention if pain still persists.

After ingestion

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical advice immediately.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing media**

Water spray jet; Foam; Carbon dioxide; Dry chemical extinguisher

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

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In the event of fire, the following can be released:

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear full protective suit.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8. Use personal protective clothing.

For emergency responders

Personal protective equipment (PPE) - see section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

SECTION 7: Handling and storage**7.1 Precautions for safe handling****Advice on safe handling**

Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances.

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Do not inhale vapours. Avoid contact with eyes and skin. Wash hands before breaks and after work. Remove contaminated clothing and shoes and launder thoroughly before reusing. Have emergency shower available.

7.2 Conditions for safe storage, including any incompatibilities**Technical measures and storage conditions**

Keep container tightly closed and dry in a cool, well-ventilated place.

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original.

Incompatible products

Substances to be avoided, see section 10.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Occupational exposure limit values**

| No | Substance name | CAS no. | EC no. |
|----|-----------------|----------|-----------|
| 1 | 2-butoxyethanol | 111-76-2 | 203-905-0 |
| | 2000/39/EC | | |
| | 2-Butoxyethanol | | |

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| | | | | | |
|---|---|----------|-------------------|----|-----|
| | WEL short-term (15 min reference period) | 246 | mg/m ³ | 50 | ppm |
| | WEL long-term (8-hr TWA reference period) | 98 | mg/m ³ | 20 | ppm |
| | Skin resorption / sensibilisation | Skin | | | |
| List of approved workplace exposure limits (WELs) / EH40 | | | | | |
| 2-Butoxyethanol | | | | | |
| | WEL short-term (15 min reference period) | 246 | mg/m ³ | 50 | ppm |
| | WEL long-term (8-hr TWA reference period) | 123 | mg/m ³ | 25 | ppm |
| | Comments | Sk, BMGV | | | |

DNEL, DMEL and PNEC values**DNEL values (worker)**

| No | Substance name | | | CAS / EC no | |
|----|-------------------|---------------------|----------|-----------------------|-------------------|
| | Route of exposure | Exposure time | Effect | Value | |
| 1 | 2-butoxyethanol | | | 111-76-2 203-905-0 | |
| | inhalative | Long term (chronic) | systemic | 98.00 | mg/m ³ |
| | inhalative | Short term (acut) | systemic | 1091.00 | mg/m ³ |
| | inhalative | Long term (chronic) | local | 246.00 | mg/m ³ |

DNEL value (consumer)

| No | Substance name | | | CAS / EC no | |
|----|-------------------|---------------------|----------|-----------------------|-------------------|
| | Route of exposure | Exposure time | Effect | Value | |
| 1 | 2-butoxyethanol | | | 111-76-2 203-905-0 | |
| | oral | Long term (chronic) | systemic | 6.30 | mg/kg/day |
| | oral | Short term (acut) | systemic | 26.70 | mg/kg/day |
| | inhalative | Long term (chronic) | systemic | 59.00 | mg/m ³ |
| | inhalative | Short term (acut) | systemic | 426.00 | mg/m ³ |
| | inhalative | Long term (chronic) | local | 147.00 | mg/m ³ |

PNEC values

| No | Substance name | | CAS / EC no | |
|----|-------------------------------|-----------------------|-----------------------|------------------|
| | ecological compartment | Type | Value | |
| 1 | 2-butoxyethanol | | 111-76-2 203-905-0 | |
| | water | fresh water | 8.80 | mg/L |
| | water | marine water | 0.88 | mg/L |
| | water | fresh water sediment | 34.60 | mg/kg |
| | with reference to: dry weight | | | |
| | water | marine water sediment | 3.46 | mg/kg |
| | water | Aqua intermittent | 26.4 | mg/L |
| | soil | - | 2.33 | mg/kg dry weight |
| | sewage treatment plant | - | 463.00 | mg/L |
| | secondary poisoning | - | 0.02 | mg/kg food |

8.2 Exposure controls**Appropriate engineering controls**

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

Personal protective equipment**Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

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Safety glasses with side protection shield (EN 166)

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Other

Chemical-resistant work clothes.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

| | |
|---|-------|
| State of aggregation | |
| liquid | |
| Form/Colour | |
| liquid | |
| white | |
| Odour | |
| No data available | |
| pH value | |
| Value | 7 |
| Boiling point / boiling range | |
| No data available | |
| Melting point/freezing point | |
| No data available | |
| Decomposition temperature | |
| No data available | |
| Flash point | |
| Value | 70 °C |
| Ignition temperature | |
| No data available | |
| Oxidising properties | |
| not oxidizing | |
| Explosive properties | |
| Product does not present an explosion hazard. | |
| Flammability | |
| No data available | |
| Lower explosion limit | |
| No data available | |
| Upper explosion limit | |
| No data available | |
| Vapour pressure | |
| No data available | |

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| Relative vapour density | | | |
|--|-----------------|-------------------|-----------|
| No data available | | | |
| Relative density | | | |
| No data available | | | |
| Density | | | |
| Value | 0.99 | g/cm ³ | |
| Reference temperature | 20 | °C | |
| Solubility | | | |
| No data available | | | |
| Partition coefficient n-octanol/water (log value) | | | |
| No | Substance name | CAS no. | EC no. |
| 1 | 2-butoxyethanol | 111-76-2 | 203-905-0 |
| log Pow | | 0.81 | |
| Reference temperature | | 20 | °C |
| Method | | calculated | |
| Source | | ECHA | |
| Viscosity | | | |
| No data available | | | |
| Particle characteristics | | | |
| No data available | | | |

9.2 Other information

| |
|--------------------------|
| Other information |
| No data available. |

SECTION 10: Stability and reactivity**10.1 Reactivity**

No data available.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling product according to its intended use.

10.4 Conditions to avoid

None known

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

| Acute oral toxicity | | | |
|----------------------------|-----------------|----------|------------------|
| No | Substance name | CAS no. | EC no. |
| 1 | 2-butoxyethanol | 111-76-2 | 203-905-0 |
| LD50 | | 1746 | mg/kg bodyweight |
| Species | | rat | |
| Method | | OECD 401 | |
| Source | | ECHA | |

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| Acute dermal toxicity | | | |
|-----------------------|-----------------|----------|------------------|
| No | Substance name | CAS no. | EC no. |
| 1 | 2-butoxyethanol | 111-76-2 | 203-905-0 |
| LD50 | > | 2000 | mg/kg bodyweight |
| Species | guinea pig | | |
| Method | OECD 402 | | |
| Source | ECHA | | |

| Acute inhalational toxicity | | | |
|-----------------------------|-----------------|----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | 2-butoxyethanol | 111-76-2 | 203-905-0 |
| ATE | | 1.5 | mg/l |
| Duration of exposure | | 4 | h |
| State of aggregation | Dust/mist | | |
| Species | rat | | |

| Skin corrosion/irritation | | | |
|---------------------------|-----------------|----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | 2-butoxyethanol | 111-76-2 | 203-905-0 |
| Duration of exposure | | 4 | h |
| Species | rabbit | | |
| Method | EU B.4 | | |
| Source | ECHA | | |
| Evaluation | irritant | | |

| Serious eye damage/irritation | | | |
|-------------------------------|--------------------|----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | 2-butoxyethanol | 111-76-2 | 203-905-0 |
| Duration of exposure | | 24 | h |
| Species | rabbit | | |
| Method | OECD 405 | | |
| Source | ECHA | | |
| Evaluation | Irritating to eyes | | |

| Respiratory or skin sensitisation | | | |
|-----------------------------------|-----------------|----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | 2-butoxyethanol | 111-76-2 | 203-905-0 |
| Route of exposure | Skin | | |
| Species | guinea pig | | |
| Method | OECD 406 | | |
| Source | ECHA | | |
| Evaluation | non-sensitizing | | |

| Germ cell mutagenicity | | | |
|---------------------------|---|----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | 2-butoxyethanol | 111-76-2 | 203-905-0 |
| Method | OECD 471 | | |
| Source | ECHA | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |

| Reproduction toxicity | | | |
|-----------------------|--|--|--|
| No data available | | | |

| Carcinogenicity | | | |
|---------------------------|---|----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | 2-butoxyethanol | 111-76-2 | 203-905-0 |
| Species | rat | | |
| Method | OECD 451 | | |
| Source | ECHA | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |

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STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration hazard

No data available

11.2 Information on other hazards**Endocrine disrupting properties**

No data available.

Other information

No data available.

SECTION 12: Ecological information**12.1 Toxicity****Toxicity to fish (acute)**

| No | Substance name | CAS no. | EC no. |
|----------------------|---------------------|----------|-----------|
| 1 | 2-butoxyethanol | 111-76-2 | 203-905-0 |
| LC50 | > | 1474 | mg/l |
| Duration of exposure | | 96 | h |
| Species | Oncorhynchus mykiss | | |
| Method | OECD 203 | | |
| Source | ECHA | | |

Toxicity to fish (chronic)

| No | Substance name | CAS no. | EC no. |
|----------------------|-----------------|----------|-----------|
| 1 | 2-butoxyethanol | 111-76-2 | 203-905-0 |
| NOEC | > | 100 | mg/l |
| Duration of exposure | | 21 | day(s) |
| Species | Danio rerio | | |
| Method | OECD 204 | | |
| Source | ECHA | | |

Toxicity to Daphnia (acute)

| No | Substance name | CAS no. | EC no. |
|----------------------|-----------------|----------|-----------|
| 1 | 2-butoxyethanol | 111-76-2 | 203-905-0 |
| EC50 | | 690 | mg/l |
| Duration of exposure | | 48 | h |
| Species | Daphnia magna | | |
| Method | OECD 202 | | |
| Source | ECHA | | |

Toxicity to Daphnia (chronic)

| No | Substance name | CAS no. | EC no. |
|----------------------|-----------------|----------|-----------|
| 1 | 2-butoxyethanol | 111-76-2 | 203-905-0 |
| NOEC | | 100 | mg/l |
| Duration of exposure | | 21 | day(s) |
| Species | Daphnia magna | | |
| Method | OECD 211 | | |
| Source | ECHA | | |

Toxicity to algae (acute)

| No | Substance name | CAS no. | EC no. |
|----------------------|-----------------|----------|-----------|
| 1 | 2-butoxyethanol | 111-76-2 | 203-905-0 |
| EC50 | | 623 | mg/l |
| Duration of exposure | | 72 | h |

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| | |
|---------|---------------------------------|
| Species | Pseudokirchneriella subcapitata |
| Method | OECD 201 |
| Source | ECHA |

| |
|------------------------------------|
| Toxicity to algae (chronic) |
| No data available |

| |
|--------------------------|
| Bacteria toxicity |
| No data available |

12.2 Persistence and degradability

| Biodegradability | | | |
|-------------------------|------------------------|----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | 2-butoxyethanol | 111-76-2 | 203-905-0 |
| Type | aerobic biodegradation | | |
| Value | | 90.4 | % |
| Duration | | 28 | day(s) |
| Method | OECD 301 B | | |
| Source | ECHA | | |
| Evaluation | readily biodegradable | | |

12.3 Bioaccumulative potential

| Partition coefficient n-octanol/water (log value) | | | |
|--|-----------------|----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | 2-butoxyethanol | 111-76-2 | 203-905-0 |
| log Pow | | 0.81 | |
| Reference temperature | | 20 | °C |
| Method | calculated | | |
| Source | ECHA | | |

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

| | |
|---|--|
| Results of PBT and vPvB assessment | |
| PBT assessment | According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be PBT. |
| vPvB assessment | According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be vPvB. |

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

12.8 Other information

| |
|--|
| Other information |
| Do not discharge product unmonitored into the environment. |

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Product

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Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility. Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information**14.1 Transport ADR/RID/ADN**

The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
EU regulations**Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII. No 3

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

| No | Substance name | CAS no. | EC no. | No |
|----|--|------------|-----------|----|
| 1 | 2-(4-tert-butylbenzyl) propionaldehyde | 80-54-6 | 201-289-8 | 75 |
| 2 | 2-butoxyethanol | 111-76-2 | 203-905-0 | 75 |
| 3 | 2-octyl-2H-isothiazol-3-one | 26530-20-1 | 247-761-7 | 75 |
| 4 | bronopol | 52-51-7 | 200-143-0 | 75 |
| 5 | linalool | 78-70-6 | 201-134-4 | 75 |

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This product is not subject to Part 1 or 2 of Annex I.

Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product.
Employment restrictions, according to the regulations for protection of expectant and nursing mothers and the youth health and safety regulations, serving to protect against hazardous materials, should be observed.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

SECTION 16: Other information**Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

| | |
|--------|---|
| EUH071 | Corrosive to the respiratory tract. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H311 | Toxic in contact with skin. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| 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. |

Creation of the safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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