

SAFETY DATA SHEET

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

Revision date: 18 Nov 2022

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Version: 4



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Mabanol Cut E 72 BF

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

* 1.1. Product identifier

Trade name/designation:

Mabanol Cut E 72 BF

UFI:

9MS0-CDGT-9N2V-WAR7

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

Use of the substance/mixture:

Metalworking fluids

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Mabanol GmbH & Co. KG

Koreastraße 7

20457 Hamburg

Germany

Telephone: 0049 (0) 40 36809988

E-mail: info@mabanol.com

Website: www.mabanol.com

E-mail (competent person): giznord@giz-nord.de

1.4. Emergency telephone number

Giftinformationszentrale Göttingen , 24h: 0049 (0) 551 1 92 40

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

| Hazard classes and hazard categories | Hazard statements | Classification procedure |
|-------------------------------------------------------------------|----------------------------------------------------------|--------------------------|
| Skin corrosion/irritation (<i>Skin Irrit. 2</i>) | H315: Causes skin irritation. | |
| Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>) | H319: Causes serious eye irritation. | |
| Hazardous to the aquatic environment (<i>Aquatic Chronic 3</i>) | H412: Harmful to aquatic life with long lasting effects. | |

* 2.2. Label elements

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

Hazard pictograms:



GHS07

Exclamation mark

Signal word: Warning

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Hazard components for labelling:

1-aminopropan-2-ol; 2-n-Butyl-benzo[d]isothiazol-3-on

Hazard statements for health hazards

| | |
|------|--------------------------------|
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |

Hazard statements for environmental hazards

| | |
|------|----------------------------------------------------|
| H412 | Harmful to aquatic life with long lasting effects. |
|------|----------------------------------------------------|

Supplemental hazard information

| | |
|--------|-------------------------------------------------------------------------------|
| EUH208 | Contains 2-n-Butyl-benzo[d]isothiazol-3-on. May produce an allergic reaction. |
|--------|-------------------------------------------------------------------------------|

Precautionary statements Prevention

| | |
|------|----------------------------------------------------------------------------|
| P264 | Wash hands thoroughly after handling. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |

Precautionary statements Response

| | |
|-------------|-----------------------------------------------------------|
| P332 + P313 | If skin irritation occurs: Get medical advice/attention. |
| P337 + P313 | If eye irritation persists: Get medical advice/attention. |

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description:

Mixture of base oils and additives.

Additional information:

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.

Hazardous ingredients / Hazardous impurities / Stabilisers:

| Product identifiers | Substance name Classification according to Regulation (EC) No 1272/2008 [CLP] | Concentration |
|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------|
| CAS No.: 770-35-4 EC No.: 212-222-7 REACH No.: 01-2119486566-23 | 1-phenoxypropan-2-ol Eye Irrit. 2 (H319) ⚠ Warning | 1 - < 5 weight-% |
| CAS No.: 68920-66-1 EC No.: 500-236-9 REACH No.: 01-2119489407-26 | Alcohols, C16-18 and C18-unsatd., ethoxylated Aquatic Chronic 2 (H411), Skin Irrit. 2 (H315) ⚠ ⚠ Warning | 2.5 - < 5 weight-% |
| CAS No.: 112-34-5 EC No.: 203-961-6 Index No.: 603-096-00-8 REACH No.: 01-2119475104-44 | 2-(2-butoxyethoxy)ethanol Eye Irrit. 2 (H319) ⚠ Warning | 1 - < 5 weight-% |
| CAS No.: 78-96-6 EC No.: 201-162-7 REACH No.: 01-2119475331-43 | 1-aminopropan-2-ol Acute Tox. 4 (H312), Eye Dam. 1 (H318), Skin Corr. 1B (H314) ⚠ ⚠ ⚠ Danger | 1 - < 3 weight-% |

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| Product identifiers | Substance name Classification according to Regulation (EC) No 1272/2008 [CLP] | Concentration |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| CAS No.: 4299-07-4 EC No.: 420-590-7 | 2-n-Butyl-benzo[d]isothiazol-3-on Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Eye Dam. 1 (H318), Skin Corr. 1B (H314), Skin Sens. 1 (H317) Danger M-factor (acute): 1 M-factor (chronic): 10 | 0.1 – < 0.25 weight-% |

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

SECTION 4: First aid measures

* 4.1. Description of first aid measures

General information:

When in doubt or if symptoms are observed, get medical advice. If unconscious but breathing normally, place in recovery position and seek medical advice.

Following inhalation:

Remove victim out of the danger area. Remove casualty to fresh air and keep warm and at rest. Where appropriate artificial ventilation. In case of respiratory tract irritation, consult a physician.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Take off contaminated clothing and wash it before reuse. In case of skin irritation, consult a physician.

After eye contact:

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

Following ingestion:

Do NOT induce vomiting. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person or a person with cramps. When in doubt or if symptoms are observed, get medical advice.

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

Observe risk of aspiration if vomiting occurs.

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

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Foam. Extinguishing powder. Carbon dioxide (CO₂). Water spray jet. Water mist.

Unsuitable extinguishing media:

Full water jet.

* 5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke.

Hazardous combustion products:

In case of fire: Gases/vapours, toxic. In case of fire may be liberated: Carbon dioxide (CO₂). Carbon monoxide. Nitrogen oxides (NO_x). Phosphorus oxides.

5.3. Advice for firefighters

Do not inhale explosion and combustion gases. Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

Move undamaged containers from immediate hazard area if it can be done safely. Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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SECTION 6: Accidental release measures

* 6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Remove persons to safety. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Provide adequate ventilation. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Ventilate affected area. Remove all sources of ignition. Special danger of slipping by leaking/spilling product.

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8.

* 6.2. Environmental precautions

Cover drains. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Make sure spills can be contained, e.g. in sump pallets or kerbed areas. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

For containment:

Cover drains. Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control. Prevent spread over a wide area (e.g. by containment or oil barriers).

For cleaning up:

Wipe up with absorbent material (eg. cloth, fleece). Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Take up mechanically, placing in appropriate containers for disposal. Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

* 7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Wear personal protection equipment (refer to section 8). Use only in well-ventilated areas. Handle and open container with care. Avoid contact with skin, eyes and clothes. Do not breathe gas/fumes/vapour/spray. Special danger of slipping by leaking/spilling product.

Fire prevent measures:

Usual measures for fire prevention.

Keep away from sources of ignition - No smoking.

Environmental precautions:

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Shafts and sewers must be protected from entry of the product.

Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin. Wash hands before breaks and after work. Apply skin care products after work. Do not put any product-impregnated cleaning rags into your trouser pockets. Used working clothes should not be worn outside the work area. Wash contaminated clothing before reuse.

* 7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place. Only use containers specifically approved for the substance/product.

Hints on storage assembly:

Do not store together with: Food and feedingstuffs.

Keep away from: Oxidizing agent.

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Storage class (TRGS 510, Germany): 10 - Combustible liquids that cannot be assigned to any of the above storage classes

Further information on storage conditions:

Recommended storage temperature: 5 - 40°C.

Protect against: Frost. Heat. UV-radiation/sunlight. Water. Humidity.

storage stability: max. 12 month(s).

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

* 8.1. Control parameters

8.1.1. Occupational exposure limit values

| Limit value type (country of origin) | Substance name | ① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark |
|--------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TRGS 900 (DE) | 2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6 | ① 10 ppm (67 mg/m ³) ② 15 ppm (100.5 mg/m ³) ⑤ (Aerosol und Dampf) EU, DFG, Y, 11 |
| IOELV (EU) | 2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6 | ① 10 ppm (67.5 mg/m ³) ② 15 ppm (101.2 mg/m ³) |
| TRGS 900 (DE) | 1-aminopropan-2-ol CAS No.: 78-96-6 EC No.: 201-162-7 | ① 2 ppm (5.8 mg/m ³) ② 4 ppm (11.6 mg/m ³) ⑤ (Aerosol und Dampf) AGS, 11 |

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

| Substance name | DNEL value | ① DNEL type ② Exposure route |
|-------------------------------------------------------------------------------------------|------------------------|---------------------------------------------------------------|
| 1-phenoxypropan-2-ol CAS No.: 770-35-4 EC No.: 212-222-7 | 25.7 mg/m ³ | ① DNEL worker ② Long-term - inhalation, systemic effects |
| 1-phenoxypropan-2-ol CAS No.: 770-35-4 EC No.: 212-222-7 | 42 mg/kg bw/day | ① DNEL worker ② Long-term - dermal, systemic effects |
| Alcohols, C16-18 and C18-unsatd., ethoxylated CAS No.: 68920-66-1 EC No.: 500-236-9 | 87 mg/m ³ | ① DNEL Consumer ② Long-term - inhalation, systemic effects |
| Alcohols, C16-18 and C18-unsatd., ethoxylated CAS No.: 68920-66-1 EC No.: 500-236-9 | 294 mg/m ³ | ① DNEL worker ② Acute - inhalation, systemic effects |
| Alcohols, C16-18 and C18-unsatd., ethoxylated CAS No.: 68920-66-1 EC No.: 500-236-9 | 2,080 mg/kg bw/day | ① DNEL worker ② Long-term - dermal, systemic effects |
| 2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6 | 67.5 mg/m ³ | ① DNEL worker ② Long-term - inhalation, systemic effects |
| 2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6 | 20 mg/kg | ① DNEL worker ② Long-term - dermal, systemic effects |

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| Substance name | DNEL value | ① DNEL type ② Exposure route |
|-------------------------------------------------------------|-----------------------|-------------------------------------------------------------|
| 1-aminopropan-2-ol CAS No.: 78-96-6 EC No.: 201-162-7 | 4.5 mg/m ³ | ① DNEL worker ② Long-term - inhalation, systemic effects |
| 1-aminopropan-2-ol CAS No.: 78-96-6 EC No.: 201-162-7 | 3.5 mg/kg | ① DNEL worker ② Long-term - dermal, systemic effects |

| Substance name | PNEC Value | ① PNEC type |
|----------------------------------------------------------------------------------------------|-------------|-------------------------------|
| 1-phenoxypropan-2-ol CAS No.: 770-35-4 EC No.: 212-222-7 | 0.1 mg/L | ① PNEC aquatic, freshwater |
| 1-phenoxypropan-2-ol CAS No.: 770-35-4 EC No.: 212-222-7 | 0.01 mg/L | ① PNEC aquatic, marine water |
| 1-phenoxypropan-2-ol CAS No.: 770-35-4 EC No.: 212-222-7 | 10 mg/L | ① PNEC sewage treatment plant |
| 1-phenoxypropan-2-ol CAS No.: 770-35-4 EC No.: 212-222-7 | 0.38 mg/kg | ① PNEC sediment, freshwater |
| 1-phenoxypropan-2-ol CAS No.: 770-35-4 EC No.: 212-222-7 | 0.038 mg/kg | ① PNEC sediment, marine water |
| Alcohols, C16-18 and C18-unsatd., ethoxylated CAS No.: 68920-66-1 EC No.: 500-236-9 | 0.002 mg/L | ① PNEC aquatic, freshwater |
| Alcohols, C16-18 and C18-unsatd., ethoxylated CAS No.: 68920-66-1 EC No.: 500-236-9 | 0.002 mg/L | ① PNEC aquatic, marine water |
| Alcohols, C16-18 and C18-unsatd., ethoxylated CAS No.: 68920-66-1 EC No.: 500-236-9 | 10,000 mg/L | ① PNEC sewage treatment plant |
| Alcohols, C16-18 and C18-unsatd., ethoxylated CAS No.: 68920-66-1 EC No.: 500-236-9 | 6.33 mg/kg | ① PNEC sediment, freshwater |
| Alcohols, C16-18 and C18-unsatd., ethoxylated CAS No.: 68920-66-1 EC No.: 500-236-9 | 6.33 mg/kg | ① PNEC sediment, marine water |
| 2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6 | 1 mg/L | ① PNEC aquatic, freshwater |
| 2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6 | 0.1 mg/L | ① PNEC aquatic, marine water |
| 2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6 | 200 mg/L | ① PNEC sewage treatment plant |
| 2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6 | 4 mg/kg | ① PNEC sediment, freshwater |
| 2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6 | 0.4 mg/kg | ① PNEC sediment, marine water |

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| Substance name | PNEC Value | ① PNEC type |
|-------------------------------------------------------------|---------------|-------------------------------|
| 1-aminopropan-2-ol CAS No.: 78-96-6 EC No.: 201-162-7 | 0.0327 mg/L | ① PNEC aquatic, freshwater |
| 1-aminopropan-2-ol CAS No.: 78-96-6 EC No.: 201-162-7 | 0.00327 mg/kg | ① PNEC aquatic, marine water |
| 1-aminopropan-2-ol CAS No.: 78-96-6 EC No.: 201-162-7 | 3.3 mg/L | ① PNEC sewage treatment plant |
| 1-aminopropan-2-ol CAS No.: 78-96-6 EC No.: 201-162-7 | 0.177 mg/kg | ① PNEC sediment, freshwater |

* 8.2. Exposure controls

8.2.1. Appropriate engineering controls

Use only in well-ventilated areas. If handled uncovered, arrangements with local exhaust ventilation should be used if possible. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. Technical measures and the application of suitable work processes have priority over personal protection equipment.

8.2.2. Personal protection equipment

Eye/face protection:

Eye glasses with side protection (EN 166).

Skin protection:

Tested protective gloves must be worn (EN ISO 374).

Wearing time with permanent contact:

Suitable material: NBR (Nitrile rubber). CR (polychloroprene, chloroprene rubber). Thickness of the glove material: 0,70 mm. Breakthrough time: > 480 min.

Wearing time with occasional contact (splashes):

Suitable material: NBR (Nitrile rubber). CR (polychloroprene, chloroprene rubber). Thickness of the glove material: 0,40 mm. Breakthrough time: > 30 min.

Unsuitable material: PVA (Polyvinyl alcohol).

Breakthrough times and swelling properties of the material must be taken into consideration. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Respiratory protection:

Usually no personal respiratory protection necessary.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Respiratory protection necessary at: exceeding exposure limit values. insufficient ventilation. aerosol or mist formation.

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

* 9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: brown

Odour: not determined

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Safety relevant basis data

| Parameter | Value | at °C | ① Method ② Remark |
|----------------------------------------------|--------------------------|-------|-----------------------------|
| pH | 9.8 | 20 °C | ① DIN 51369 ② 5 weight-% |
| Melting point | <i>not determined</i> | | |
| Freezing point | <i>not determined</i> | | |
| Initial boiling point and boiling range | > 100 °C | | ② 1013 hPa |
| Decomposition temperature | <i>not determined</i> | | |
| Flash point | > 100 °C | | ① EN ISO 2592 |
| Evaporation rate | <i>not determined</i> | | |
| Auto-ignition temperature | <i>not determined</i> | | |
| Upper/lower flammability or explosive limits | <i>not determined</i> | | |
| Vapour pressure | <i>not determined</i> | | |
| Vapour density | <i>not determined</i> | | |
| Density | 0.976 g/cm ³ | 15 °C | ① DIN EN ISO 12185 |
| Relative density | <i>not determined</i> | | |
| Bulk density | <i>not determined</i> | | |
| Water solubility | miscible | 20 °C | |
| Partition coefficient: n-octanol/water | <i>not determined</i> | | |
| Dynamic viscosity | <i>not determined</i> | | |
| Kinematic viscosity | ≈ 222 mm ² /s | 20 °C | ① EN ISO 3104 |

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

Oxidising agent, strong.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

* 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity:

No data available. The statement is derived from the properties of the single components.

Based on available data, the classification criteria are not met.

Acute dermal toxicity:

Based on available data, the classification criteria are not met.

Acute inhalation toxicity:

Based on available data, the classification criteria are not met.

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Skin corrosion/irritation:

Causes skin irritation.

Serious eye damage/irritation:

Causes eye irritation.

Respiratory or skin sensitisation:

May cause sensitization by skin contact.

Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

Carcinogenicity:

Based on available data, the classification criteria are not met.

Reproductive toxicity:

Based on available data, the classification criteria are not met.

STOT-single exposure:

Based on available data, the classification criteria are not met.

STOT-repeated exposure:

Based on available data, the classification criteria are not met.

Aspiration hazard:

Based on available data, the classification criteria are not met.

Additional information:

Frequently or prolonged contact with skin may cause dermal irritation.

11.2. Information on other hazards

Endocrine disrupting properties:

No information available.

SECTION 12: Ecological information

* **12.1. Toxicity**

Aquatic toxicity:

Harmful to aquatic life.

Additional ecotoxicological information:

There are no data available on the mixture itself. The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the single components (see section 3).

Do not allow uncontrolled discharge of product into the environment.

* **12.2. Persistence and degradability**

Abiotic degradation:

Poorly eliminated from water.

Biodegradation:

Part of the components is biodegradable.

12.3. Bioaccumulative potential

Accumulation / Evaluation:

No indication of bioaccumulation potential.

12.4. Mobility in soil

No information available.

* **12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

No information available.

12.7. Other adverse effects

No information available.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste according to applicable legislation. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

| | |
|------------|--------------------------------------------------------------------------------|
| 12 01 07 * | mineral-based machining oils free of halogens (except emulsions and solutions) |
|------------|--------------------------------------------------------------------------------|

*: Evidence for disposal must be provided.

Remark:

Waste code product emulsion: 12 01 09.

Waste treatment options

Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Non-contaminated packages may be recycled. Packing which cannot be properly cleaned must be disposed of. Handle contaminated packages in the same way as the substance itself. Dispose of waste according to applicable legislation.

SECTION 14: Transport information

| Land transport (ADR/RID) | Inland waterway craft (ADN) | Sea transport (IMDG) | Air transport (ICAO-TI / IATA-DGR) |
|------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|
| 14.1. UN number or ID number | | | |
| No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. |
| 14.2. UN proper shipping name | | | |
| No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. |
| 14.3. Transport hazard class(es) | | | |
| not relevant | not relevant | not relevant | not relevant |
| 14.4. Packing group | | | |
| not relevant | not relevant | not relevant | not relevant |
| 14.5. Environmental hazards | | | |
| not relevant | not relevant | not relevant | not relevant |
| 14.6. Special precautions for user | | | |
| not relevant | not relevant | not relevant | not relevant |

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

15.1.1. EU legislation

Restrictions on use:

Use restriction according to REACH annex XVII, no.: 3. 55. 75.

Other regulations (EU):

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: This product is not assigned to a hazard category.

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]: No information available.

Observe in addition any national regulations!

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Directive 2004/42/EC on the limitation of emissions of volatile organic compounds:

Volatile organic compounds (VOC) content in percent by weight: 1.78 weight-%

15.1.2. National regulations

[DE] National regulations

Störfallverordnung (12. BImSchV)

for substances contained in the product:

This product is not assigned to a hazard category.

for substances possibly developing during an incident:

This product is not assigned to a hazard category.

Technische Anleitung zur Reinhaltung der Luft (TA-Luft)

Remark:

Weight fraction (Number 5.2.5. I): <5 %

No flammable liquid according to BetrSichV.

Water hazard class

WGK:

1 - schwach wassergefährdend

Remark:

Self-classification (mixture; calculation rule).

Berufsgenossenschaftliche Vorschriften (DGUV-Vorschriften)

The product complies with the restrictions of the Technical Rule for Hazardous Substances (TRGS 611).

Other regulations, restrictions and prohibition regulations

No flammable liquid according to BetrSichV.

15.2. Chemical Safety Assessment

No information available.

* 15.3. Additional information

Water hazard class (WGK): 1 (slightly hazardous to water).

SECTION 16: Other information

* 16.1. Indication of changes

| | |
|-------|------------------------------------------------------------------------------------------------|
| 1.1. | Product identifier |
| 2.2. | Label elements |
| 3.2. | Mixtures |
| 4.1. | Description of first aid measures |
| 5.2. | Special hazards arising from the substance or mixture |
| 6.1. | Personal precautions, protective equipment and emergency procedures |
| 6.2. | Environmental precautions |
| 7.1. | Precautions for safe handling |
| 7.2. | Conditions for safe storage, including any incompatibilities |
| 8.1. | Control parameters |
| 8.2. | Exposure controls |
| 9.1. | Information on basic physical and chemical properties |
| 11.1. | Information on hazard classes as defined in Regulation (EC) No 1272/2008 |
| 12.1. | Toxicity |
| 12.2. | Persistence and degradability |
| 12.5. | Results of PBT and vPvB assessment |
| 15.1. | Safety, health and environmental regulations/legislation specific for the substance or mixture |
| 15.3. | Additional information |
| 16.1. | Indication of changes |
| 16.5. | Relevant R-, H- and EUH-phrases (Number and full text) |

16.2. Abbreviations and acronyms

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: Accord européen sur le transport des marchandises dangereuses par Route (International Carriage of Dangerous Goods by Road)

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AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen
CAS Chemical Abstracts Service
DNEL: Derived No Effect Level
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
LOAEL: Lowest observed adverse effect level
LOAEC: Lowest observed adverse effect concentration
LC₅₀: Lethal concentration, 50 percent
LD₅₀: Lethal dose, 50 percent
NIOSH: National Institute of Occupational Safety and Health
NOAEL: No observed adverse effect level
NOAEC: No observed adverse effect level
NTP: National Toxicology Program
N/A: not applicable
OEL: Occupational Exposure limit (Arbeitsplatzgrenzwert)
OSHA: Occupational Safety and Health Administration
PEL: permissible exposure limit (Zulässiger Expositionsgrenzwert)
PBT: persistent bioaccumulative toxic
PNEC: predicted no effect concentration
REL: Recommended exposure limit (Empfohlene Expositionsgrenze)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
SARA: Superfund Amendments and Reauthorization Act
STEL: Short Term Exposure Limit (Kurzzeitgrenzwert) (15 min)
SVHC: substance of very high concern
TLV: Threshold Limit Values (Schwellwert Grenzwerte)
TRGS Technische Regeln für Gefahrstoffe
TSCA: Toxic Substances Control Act
TWA: Time Weighted Average (Zeitlich gewichteter Mittelwert) (8 h)
VOC: Volatile Organic Compounds
VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe
WGK: Wassergefährdungsklasse

16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

| Hazard classes and hazard categories | Hazard statements | Classification procedure |
|-------------------------------------------------------------------|----------------------------------------------------------|--------------------------|
| Skin corrosion/irritation (<i>Skin Irrit. 2</i>) | H315: Causes skin irritation. | |
| Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>) | H319: Causes serious eye irritation. | |
| Hazardous to the aquatic environment (<i>Aquatic Chronic 3</i>) | H412: Harmful to aquatic life with long lasting effects. | |

* 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

| Hazard statements | |
|-------------------|------------------------------------------|
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |

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| Hazard statements | |
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| H319 | Causes serious eye 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. |

16.6. Training advice

No data available

16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

* Data changed compared with the previous version.