

SAFETY DATA SHEET

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

Revision date: 9 Apr 2025

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Mabanol Cut E 98 BF

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

* **1.1. Product identifier**

Trade name/designation:

Mabanol Cut E 98 BF

UFI:

1WGH-ERAD-5VR0-52TN

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

Am Strandkai 1

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
Respiratory or skin sensitisation (<i>Skin Sens. 1</i>)	H317: May cause an allergic skin reaction.	
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:

2-n-Butyl-benzo[d]isothiazol-3-on; 1,2-benzisothiazol-3(2H)-one; 2-methyl-2H-isothiazol-3-one; 2-(2-aminoethoxy)ethanol

Hazard statements for health hazards

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

Hazard statements for environmental hazards

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements Prevention

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

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.

Additional information:

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

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

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.: 64742-53-6 EC No.: 265-156-6 REACH No.: 01-2119480375-34	Distillates (petroleum), hydrotreated light naphthenic Asp. Tox. 1 (H304) Danger Acute Toxicity Estimate ATE (oral) > 5,000 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, vapour) > 5.53 mg/L	35 - < 40 weight-%
CAS No.: 105-59-9 EC No.: 203-312-7 Index No.: 603-079-00-5	2,2'-methyliminodiethanol Eye Irrit. 2 (H319) Warning Acute Toxicity Estimate ATE (oral) 4,680 mg/kg ATE (dermal) > 2,000 mg/kg	5 - < 10 weight-%

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Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
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 Acute Toxicity Estimate ATE (oral) 3,384 mg/kg ATE (dermal) 2,764 mg/kg ATE (inhalation, vapour) 3 mg/L	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 Acute Toxicity Estimate ATE (oral) > 2,000 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, vapour) > 1.6 mg/L	2.5 - < 5 weight-%
CAS No.: 929-06-6 EC No.: 213-195-4 REACH No.: 01-2119520701-52	2-(2-aminoethoxy)ethanol Eye Dam. 1 (H318), Skin Corr. 1B (H314) Danger Acute Toxicity Estimate ATE (oral) 2,560 - 3,000 mg/kg ATE (dermal) > 3,000 mg/kg ATE (inhalation, vapour) > 8.7 mg/L	1 - < 3 weight-%
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. 1A (H314), Skin Sens. 1 (H317) Danger M-factor (acute): 10 M-factor (chronic): 1	0.1 - < 0.25 weight-%
CAS No.: 2634-33-5 EC No.: 220-120-9 Index No.: 613-088-00-6 REACH No.: 01-2120761540-60	1,2-benzisothiazol-3(2H)-one Acute Tox. 2 (H330), Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Eye Dam. 1 (H318), Skin Irrit. 2 (H315), Skin Sens. 1A (H317) Danger M-factor (acute): 1 M-factor (chronic): 1 Specific concentration limit (SCL) Skin Sens. 1; H317: C ≥ 0.036% Acute Toxicity Estimate ATE (oral) 450 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, dust/mist) 0.21 mg/L	0.05 - < 0.25 weight-%
CAS No.: 2682-20-4 EC No.: 220-239-6	2-methyl-2H-isothiazol-3-one Acute Tox. 2 (H330), Acute Tox. 3 (H301, H311), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Eye Dam. 1 (H318), Skin Corr. 1B (H314), Skin Sens. 1A (H317) Danger M-factor (acute): 10 M-factor (chronic): 1 Specific concentration limit (SCL) Skin Sens. 1A; H317: C ≥ 0.0015% Acute Toxicity Estimate ATE (oral) 100 mg/kg ATE (dermal) 300 mg/kg ATE (inhalation, vapour) 0.5 mg/L ATE (inhalation, dust/mist) 0.05 mg/L	0.0015 - < 0.025 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.

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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:

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. 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:

Call a physician immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person or a person with cramps.

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

No information available.

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:

Strong 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).

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

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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.

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.

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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:

Clear spills immediately. 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. Ventilate affected area. 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. Protect containers against damage. Floors should be impervious, resistant to liquids and easy to clean.

Hints on storage assembly:

Keep away from: Oxidizing agent.

Do not store together with: Food and feedingstuffs.

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

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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
DFG (DE) from 1 Jul 2023	2,2'-methyliminodiethanol CAS No.: 105-59-9 EC No.: 203-312-7	① 0.4 ppm (2 mg/m ³) ② 0.4 ppm (2 mg/m ³) ⑤ (Aerosol und Dampf, kann über die Haut aufgenommen werden) H
TRGS 900 (DE) from 1 Mar 2011	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) from 2 Mar 2015	2-(2-aminoethoxy)ethanol CAS No.: 929-06-6 EC No.: 213-195-4	① 0.2 ppm (0.87 mg/m ³) ② 0.2 ppm (0.87 mg/m ³) ⑤ (Aerosol und Dampf, kann über die Haut aufgenommen werden) DFG, H, Sh, 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 ③ Exposure time
Distillates (petroleum), hydrotreated light naphthenic CAS No.: 64742-53-6 EC No.: 265-156-6	5.4 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects ③ 8 h
Distillates (petroleum), hydrotreated light naphthenic CAS No.: 64742-53-6 EC No.: 265-156-6	1.2 mg/m ³	① DNEL Consumer ② Long-term - inhalation, local effects ③ 24 h
2,2'-methyliminodiethanol CAS No.: 105-59-9 EC No.: 203-312-7	26 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
2,2'-methyliminodiethanol CAS No.: 105-59-9 EC No.: 203-312-7	19 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
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

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Substance name	DNEL value	① DNEL type ② Exposure route ③ Exposure time
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-aminoethoxy)ethanol CAS No.: 929-06-6 EC No.: 213-195-4	1.12 mg/m ³	① DNEL worker ② Acute - inhalation, systemic effects
2-(2-aminoethoxy)ethanol CAS No.: 929-06-6 EC No.: 213-195-4	0.67 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
2-(2-aminoethoxy)ethanol CAS No.: 929-06-6 EC No.: 213-195-4	7.3 mg/kg	① DNEL worker ② Long-term - dermal, systemic effects

Substance name	PNEC Value	① PNEC type
Distillates (petroleum), hydrotreated light naphthenic CAS No.: 64742-53-6 EC No.: 265-156-6	9.33 mg/kg	① PNEC secondary poisoning
2,2'-methyliminodiethanol CAS No.: 105-59-9 EC No.: 203-312-7	0.1 mg/L	① PNEC aquatic, freshwater
2,2'-methyliminodiethanol CAS No.: 105-59-9 EC No.: 203-312-7	0.0045 mg/L	① PNEC aquatic, marine water
2,2'-methyliminodiethanol CAS No.: 105-59-9 EC No.: 203-312-7	10 mg/L	① PNEC sewage treatment plant
2,2'-methyliminodiethanol CAS No.: 105-59-9 EC No.: 203-312-7	0.78 mg/kg	① PNEC sediment, freshwater
2,2'-methyliminodiethanol CAS No.: 105-59-9 EC No.: 203-312-7	0.097 mg/kg	① PNEC soil, freshwater
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
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

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Substance name	PNEC Value	① PNEC type
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-aminoethoxy)ethanol CAS No.: 929-06-6 EC No.: 213-195-4	0.0202 mg/L	① PNEC aquatic, freshwater
2-(2-aminoethoxy)ethanol CAS No.: 929-06-6 EC No.: 213-195-4	0.0202 mg/L	① PNEC aquatic, marine water
2-(2-aminoethoxy)ethanol CAS No.: 929-06-6 EC No.: 213-195-4	28 mg/L	① PNEC sewage treatment plant
2-(2-aminoethoxy)ethanol CAS No.: 929-06-6 EC No.: 213-195-4	0.945 mg/kg	① PNEC sediment, freshwater
2-(2-aminoethoxy)ethanol CAS No.: 929-06-6 EC No.: 213-195-4	0.0945 mg/kg	① PNEC sediment, marine water

* 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:

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. Tested protective gloves must be worn (EN ISO 374). Do not wear gloves near rotary machines and tools.

Wearing time with permanent contact:

Thickness of the glove material: 0,70 mm. Breakthrough time:: > 480 min.

Suitable material: NBR (Nitrile rubber). CR (polychloroprene, chloroprene rubber).

Wearing time with occasional contact (splashes):

Thickness of the glove material: 0,40 mm. Breakthrough time:: > 30 min.

Suitable material: NBR (Nitrile rubber). CR (polychloroprene, chloroprene rubber).

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. Check leak tightness/impermeability prior to use.

Suitable protective clothing: Not readily flammable.

Respiratory protection:

Usually no personal respirative protection necessary.

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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: yellow

Odour: not determined

flammability: No data available

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	9.4	20 °C	① DIN 51369 ② 5 weight-%
Melting point	No data available		
Freezing point	No data available		
Initial boiling point and boiling range	> 100 °C		
Flash point	> 100 °C		① EN ISO 2592
Evaporation rate	No data available		
Auto-ignition temperature	No data available		
Upper/lower flammability or explosive limits	No data available		
Vapour pressure	No data available		
Vapour density	No data available		
Density	0.968 g/cm ³	15 °C	① DIN EN ISO 12185
Bulk density	not applicable		
Water solubility	miscible		
Dynamic viscosity	No data available		
Kinematic viscosity	≈ 90 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.

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SECTION 11: Toxicological information

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

Distillates (petroleum), hydrotreated light naphthenic CAS No.: 64742-53-6 EC No.: 265-156-6
LD₅₀ oral: >5,000 mg/kg (Rat)
LD₅₀ dermal: >2,000 mg/kg (Rabbit)
LC₅₀ Acute inhalation toxicity (vapour): >5.53 mg/L 4 h (Rat)
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6
LD₅₀ oral: 3,384 mg/kg (Rat)
LD₅₀ dermal: 2,764 mg/kg (Rabbit)
LC₅₀ Acute inhalation toxicity (vapour): 3 mg/L 2 h (Rat)
Alcohols, C16-18 and C18-unsatd., ethoxylated CAS No.: 68920-66-1 EC No.: 500-236-9
LD₅₀ oral: >2,000 mg/kg (Rat) OECD 401
LD₅₀ dermal: >2,000 mg/kg (Rabbit) OECD 402
LC₅₀ Acute inhalation toxicity (vapour): >1.6 mg/L 4 h (Rat) OECD 403
2-(2-aminoethoxy)ethanol CAS No.: 929-06-6 EC No.: 213-195-4
LD₅₀ oral: 2,560 - 3,000 mg/kg (Rat)
LD₅₀ dermal: >3,000 mg/kg (Rabbit) OECD 402
LC₅₀ Acute inhalation toxicity (vapour): >8.7 mg/L 8 h (Rat)
2,2'-methyliminodiethanol CAS No.: 105-59-9 EC No.: 203-312-7
LD₅₀ oral: 4,680 mg/kg (Rat Rat)
LD₅₀ dermal: >2,000 mg/kg (Rabbit)
1,2-benzisothiazol-3(2H)-one CAS No.: 2634-33-5 EC No.: 220-120-9
ATE (inhalation, dust/mist)¹: 0.21 mg/L
LD₅₀ oral: 597 mg/kg (Rat)
LD₅₀ dermal: >2,000 mg/kg (Rat)

¹: Acute Toxicity Estimate. Harmonised (legal) classification.

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.

Skin corrosion/irritation:

Causes skin irritation.

Serious eye damage/irritation:

Causes serious eye damage.

Respiratory or skin sensitisation:

May cause an allergic skin reaction.

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.

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For viscosity data, see section 9.

11.2. Information on other hazards

Endocrine disrupting properties:

No information available.

SECTION 12: Ecological information

* 12.1. Toxicity

Distillates (petroleum), hydrotreated light naphthenic CAS No.: 64742-53-6 EC No.: 265-156-6
EC ₅₀ : >10,000 mg/L 2 d (crustaceans, Daphnia magna (Big water flea))
NOEC: >10 mg/L 21 d (crustaceans, Daphnia magna (Big water flea))
LC ₅₀ : >100 mg/L 4 d (fish, Pimephales promelas (fathead minnow))
NOEC: >100 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6
LC ₅₀ : 1,300 mg/L 4 d (fish, Lepomis macrochirus (Bluegill))
EC ₅₀ : >100 mg/L 2 d (crustaceans, Daphnia magna (Big water flea))
EC ₅₀ : >100 mg/L 4 d (Algae/water plant, Desmodesmus subspicatus)
Alcohols, C16-18 and C18-unsatd., ethoxylated CAS No.: 68920-66-1 EC No.: 500-236-9
LC ₅₀ : 10 - 100 mg/L 4 d (fish, Danio rerio (zebrafish)) OECD 203
EC ₅₀ : 51 mg/L 2 d (crustaceans, Daphnia magna (Big water flea)) OECD 202
2-(2-aminoethoxy)ethanol CAS No.: 929-06-6 EC No.: 213-195-4
LC ₅₀ : 460 mg/L 4 d (fish, Leuciscus idus (golden orfe)) DIN 38412 / part 15
EC ₅₀ : 190 mg/L 2 d (crustaceans, Daphnia magna (Big water flea)) OECD 202
EC ₅₀ : 162 mg/L 3 d (Algae/water plant)
2,2'-methyliminodiethanol CAS No.: 105-59-9 EC No.: 203-312-7
LC ₅₀ : 1,466 mg/L 4 d (fish)
EC ₅₀ : 233 mg/L 2 d (crustaceans)
EC ₅₀ : >100 mg/L 3 d (Algae/water plant)
1,2-benzisothiazol-3(2H)-one CAS No.: 2634-33-5 EC No.: 220-120-9
LC ₅₀ : 1.5 mg/L 4 d (fish, Oncorhynchus mykiss (Rainbow trout))
EC ₅₀ : 1.5 mg/L 2 d (crustaceans, Daphnia magna (Big water flea))
EC ₅₀ : 0.055 mg/L (Algae/water plant, Pseudokirchneriella subcapitata)

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

Distillates (petroleum), hydrotreated light naphthenic CAS No.: 64742-53-6 EC No.: 265-156-6
Log K _{ow} : > 3.5

Accumulation / Evaluation:

No indication of bioaccumulation potential.

12.4. Mobility in soil

No information available.

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* 12.5. Results of PBT and vPvB assessment

Distillates (petroleum), hydrotreated light naphthenic CAS No.: 64742-53-6 EC No.: 265-156-6
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
Alcohols, C16-18 and C18-unsatd., ethoxylated CAS No.: 68920-66-1 EC No.: 500-236-9
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
2-(2-aminoethoxy)ethanol CAS No.: 929-06-6 EC No.: 213-195-4
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
2-n-Butyl-benzo[d]isothiazol-3-on CAS No.: 4299-07-4 EC No.: 420-590-7
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
2,2'-methyliminodiethanol CAS No.: 105-59-9 EC No.: 203-312-7
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
1,2-benzisothiazol-3(2H)-one CAS No.: 2634-33-5 EC No.: 220-120-9
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
2-methyl-2H-isothiazol-3-one CAS No.: 2682-20-4 EC No.: 220-239-6
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

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.

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)
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*: Evidence for disposal must be provided.

Remark:

Waste code product emulsion: 12 01 09* (machining emulsions and solutions free of halogens).

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.

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
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):

This product is not assigned to a hazard category.

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

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds: No information available.

Observe in addition any national regulations!

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

Volatile organic compounds (VOC) content in percent by weight: 2.96 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.

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 - slightly hazardous to water

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).

15.2. Chemical Safety Assessment

No information available.

15.3. Additional information

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

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SECTION 16: Other information

* 16.1. Indication of changes

1.1.	Product identifier
1.3.	Details of the supplier of the safety data sheet
1.4.	Emergency telephone number
2.1.	Classification of the substance or mixture
2.2.	Label elements
3.2.	Mixtures
5.2.	Special hazards arising from the substance or mixture
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
12.3.	Bioaccumulative potential
12.5.	Results of PBT and vPvB assessment
13.1.	Waste treatment methods
14.3.	Transport hazard class(es)
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
16.1.	Indication of changes
16.4.	Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]
16.5.	List of relevant hazard statements and/or precautionary statements from sections 2 to 15

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)
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)

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SARA: Superfund Amendments and Reauthorization Act
STEL: Short Term Exposure Limit (Kurzzzeitgrenzwert) (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
Respiratory or skin sensitisation (<i>Skin Sens. 1</i>)	H317: May cause an allergic skin reaction.	
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. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic 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.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
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.