

# SAFETY DATA SHEET

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

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## Mabanol Cut 261 BF

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

#### 1.1. Product identifier

Trade name/designation:

Mabanol Cut 261 BF

#### 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

#### 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

Hazard components for labelling:

1-aminopropan-2-ol; dicyclohexylamine; 3-iodo-2-propynyl butylcarbamate; 1H-1,2,3-benzotriazole

##### 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.

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### Supplemental hazard information

EUH208 Contains 3-Iodo-2-propynylbutylcarbamate. 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:

Preparation of solvent refined mineral oils with low content of aromatic hydrocarbons and additives.

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 112-34-5 EC No.: 203-961-6 REACH No.: 01-2119475104-44	<b>2-(2-butoxyethoxy)ethanol</b> Eye Irrit. 2 (H319) <b>Warning</b>	1 - < 5 weight-%
CAS No.: 78-96-6 EC No.: 201-162-7 REACH No.: 01-2119475331-43	<b>1-aminopropan-2-ol</b> Acute Tox. 4 (H312), Eye Dam. 1 (H318), Skin Corr. 1B (H314)	1 - < 3 weight-%
CAS No.: 101-83-7 EC No.: 202-980-7 REACH No.: 01-2119493354-33	<b>dicyclohexylamine</b> Acute Tox. 3 (H301, H311), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Eye Dam. 1 (H318), Skin Corr. 1B (H314)	< 2 weight-%
CAS No.: 95-14-7 EC No.: 202-394-1 REACH No.: 01-2119979079-20	<b>1H-1,2,3-benzotriazole</b> Acute Tox. 4 (H302), Aquatic Chronic 2 (H411), Eye Irrit. 2 (H319)	0.5 - < 1 weight-%
CAS No.: 55406-53-6 EC No.: 259-627-5	<b>3-iodo-2-propynyl butylcarbamate</b> Acute Tox. 3 (H331), Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Eye Dam. 1 (H318), STOT RE 1 (H372), Skin Sens. 1 (H317) <b>Danger</b> M-factor (acute): 10 M-factor (chronic): 1	0.1 - < 0.5 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.

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### In case of skin contact:

Change contaminated, saturated clothing. After contact with skin, wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention.

### 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.

### Self-protection of the first aider:

First aider: Pay attention to self-protection!

### 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 (CO<sub>2</sub>). Water spray jet. Water mist.

#### Unsuitable extinguishing media:

Full water jet.

### 5.2. Special hazards arising from the substance or mixture

#### Hazardous combustion products:

In case of fire may be liberated: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide. Nitrogen oxides (NO<sub>x</sub>). Phosphorus oxides. Do not breathe smoke.

### \* 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.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

##### Personal precautions:

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

#### 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). Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

#### For cleaning up:

Clear spills immediately. Wipe up with absorbent material (eg. cloth, fleece). 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. Always close containers tightly after the removal of product. Avoid contact with skin, eyes and clothes. Do not breathe gas/fumes/vapour/spray. Keep away from sources of ignition - No smoking.

##### Fire prevent measures:

Usual measures for fire prevention. Keep away from sources of ignition - No smoking.

##### Environmental precautions:

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

##### 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. Protect containers against damage. Only use containers specifically approved for the substance/product. 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. ~ 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
TRGS 900 (DE)	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (67 mg/m <sup>3</sup> ) ② 15 ppm (100.5 mg/m <sup>3</sup> ) ⑤ (Aerosol und Dampf)
IOELV (EU)	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (67.5 mg/m <sup>3</sup> ) ② 15 ppm (101.2 mg/m <sup>3</sup> )
TRGS 900 (DE)	1-aminopropan-2-ol CAS No.: 78-96-6 EC No.: 201-162-7	① 2 ppm (5.8 mg/m <sup>3</sup> ) ② 4 ppm (11.6 mg/m <sup>3</sup> ) ⑤ (Aerosol und Dampf)
TRGS 900 (DE)	dicyclohexylamine CAS No.: 101-83-7 EC No.: 202-980-7	① 0.7 ppm (5 mg/m <sup>3</sup> ) ② 1.4 ppm (10 mg/m <sup>3</sup> ) ⑤ (Aerosol und Dampf, kann über die Haut aufgenommen werden)
TRGS 900 (DE)	3-iodo-2-propynyl butylcarbamate CAS No.: 55406-53-6 EC No.: 259-627-5	① 0.005 ppm (0.058 mg/m <sup>3</sup> ) ② 0.01 ppm (0.106 mg/m <sup>3</sup> ) ⑤ (Aerosol und Dampf)

##### 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
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	67.5 mg/m <sup>3</sup>	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
1-aminopropan-2-ol CAS No.: 78-96-6 EC No.: 201-162-7	4.5 mg/m <sup>3</sup>	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
dicyclohexylamine CAS No.: 101-83-7 EC No.: 202-980-7	0.353 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
dicyclohexylamine CAS No.: 101-83-7 EC No.: 202-980-7	0.1 mg/kg	① DNEL worker ② Long-term - dermal, systemic effects
1H-1,2,3-benzotriazole CAS No.: 95-14-7 EC No.: 202-394-1	10 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
1H-1,2,3-benzotriazole CAS No.: 95-14-7 EC No.: 202-394-1	1.08 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects

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Substance name	PNEC Value	① PNEC type
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
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
dicyclohexylamine CAS No.: 101-83-7 EC No.: 202-980-7	0.00032 mg/l	① PNEC aquatic, freshwater
dicyclohexylamine CAS No.: 101-83-7 EC No.: 202-980-7	0.00003 mg/l	① PNEC aquatic, marine water
dicyclohexylamine CAS No.: 101-83-7 EC No.: 202-980-7	108 mg/l	① PNEC sewage treatment plant
dicyclohexylamine CAS No.: 101-83-7 EC No.: 202-980-7	0.00529 mg/kg	① PNEC sediment, freshwater
1H-1,2,3-benzotriazole CAS No.: 95-14-7 EC No.: 202-394-1	0.0194 mg/l	① PNEC aquatic, freshwater
1H-1,2,3-benzotriazole CAS No.: 95-14-7 EC No.: 202-394-1	0.0194 mg/l	① PNEC aquatic, marine water
1H-1,2,3-benzotriazole CAS No.: 95-14-7 EC No.: 202-394-1	39.4 mg/l	① PNEC sewage treatment plant
1H-1,2,3-benzotriazole CAS No.: 95-14-7 EC No.: 202-394-1	0.00375 mg/kg	① PNEC sediment, freshwater

### \* 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Use only in well-ventilated areas. 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.

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### 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.

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 respirative protection necessary.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Suitable respiratory protection apparatus: Combination filtering device.

### 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

#### Safety relevant basis data

parameter		at °C	Method	Remark
pH	9.7	20 °C	DIN 51369	20°C / 5 weight-%
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	> 100 °C			1013 hPa
Decomposition temperature	<i>not determined</i>			
Flash point	> 130 °C		DIN EN ISO 2592	
Evaporation rate	<i>not determined</i>			
Auto-ignition temperature	> 240 °C			
Upper/lower flammability or explosive limits	0.6 - 6.5 Vol-%			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	0.955 g/cm <sup>3</sup>	15 °C	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	190 mm <sup>2</sup> /s	20 °C	DIN EN ISO 3104	



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### 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

Substance name	Toxicological information
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	<b>LD<sub>50</sub> oral:</b> 3,384 mg/kg (Rat) <b>LD<sub>50</sub> dermal:</b> 2,764 mg/kg (Rabbit) <b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> 3 mg/l 2 h (Rat)
1-aminopropan-2-ol CAS No.: 78-96-6 EC No.: 201-162-7	<b>LD<sub>50</sub> oral:</b> 2,813 mg/kg (Rat) <b>LD<sub>50</sub> dermal:</b> 1,851 mg/kg (Rabbit)
3-iodo-2-propynyl butylcarbamate CAS No.: 55406-53-6 EC No.: 259-627-5	<b>LD<sub>50</sub> oral:</b> 1,470 mg/kg (Rat) <b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Rabbit) <b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> 1.5 mg/l 4 h (Rat)

#### Acute oral toxicity:

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:

Irritating to eyes and skin.

#### Serious eye damage/irritation:

Irritating to eyes and skin.

#### Respiratory or skin sensitisation:

May cause sensitization by skin contact.

#### Germ cell mutagenicity:

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



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### 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:

Processing vapours can irritate the respiratory tracts, skin and eyes.

### \* 11.2. Information on other hazards

#### Endocrine disrupting properties:

No information available.

## SECTION 12: Ecological information

### \* 12.1. Toxicity

Substance name	Toxicological information
1-aminopropan-2-ol CAS No.: 78-96-6 EC No.: 201-162-7	<b>LC<sub>50</sub></b> : 215 - 464 mg/l 4 d (fish, <i>Leuciscus idus</i> (golden orfe)) DIN 38412 / part 15 <b>EC<sub>50</sub></b> : 108.8 mg/l 2 d (crustaceans, <i>Daphnia magna</i> (Big water flea)) <b>EC<sub>50</sub></b> : 32.7 mg/l 3 d (Algae/water plant, <i>Desmodesmus subspicatus</i> ) DIN 38412 / part 9
dicyclohexylamine CAS No.: 101-83-7 EC No.: 202-980-7	<b>LC<sub>50</sub></b> : 12 mg/l 4 d (fish, <i>Leuciscus idus</i> (golden orfe)) OECD 203 <b>EC<sub>50</sub></b> : 8 mg/l 2 d (crustaceans, <i>Daphnia magna</i> (Big water flea)) OECD 202 <b>EC<sub>50</sub></b> : 3.3 mg/l 3 d (Algae/water plant, <i>Scenedesmus subspicatus</i> ) OECD 201
1H-1,2,3-benzotriazole CAS No.: 95-14-7 EC No.: 202-394-1	<b>LC<sub>50</sub></b> : 180 mg/l 4 d (fish, <i>Danio rerio</i> (zebrafish)) <b>EC<sub>50</sub></b> : 15.8 mg/l 2 d (crustaceans, <i>Daphnia magna</i> (Big water flea)) <b>EC<sub>50</sub></b> : 75 mg/l 3 d (Algae/water plant, <i>Pseudokirchneria subcapitata</i> )
3-iodo-2-propynyl butylcarbamate CAS No.: 55406-53-6 EC No.: 259-627-5	<b>EC<sub>50</sub></b> : 0.022 mg/l 3 d (Algae/water plant, <i>Scenedesmus subspicatus</i> ) <b>EC<sub>50</sub></b> : 0.16 mg/l 2 d (crustaceans, <i>Daphnia magna</i> (Big water flea)) <b>LC<sub>50</sub></b> : 0.067 mg/l 4 d (fish, <i>Oncorhynchus mykiss</i> (Rainbow trout))

### Aquatic toxicity:

Harmful to aquatic life.

### Additional ecotoxicological information:

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

### \* 12.2. Persistence and degradability

Substance name	Biodegradation	Remark
1-aminopropan-2-ol CAS No.: 78-96-6	—	Readily biodegradable (according to OECD criteria).

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Substance name	Biodegradation	Remark
EC No.: 201-162-7		

### Abiotic degradation:

Poorly eliminated from water.

### Biodegradation:

Part of the components is biodegradable.

### \* 12.3. Bioaccumulative potential

Substance name	Log K <sub>ow</sub>	Bioconcentration factor (BCF)
3-iodo-2-propynyl butylcarbamate CAS No.: 55406-53-6 EC No.: 259-627-5	2.81	

### Accumulation / Evaluation:

No indication of bioaccumulation potential.

### 12.4. Mobility in soil

No information available.

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

Substance name	Results of PBT and vPvB assessment
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
1-aminopropan-2-ol CAS No.: 78-96-6 EC No.: 201-162-7	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
dicyclohexylamine CAS No.: 101-83-7 EC No.: 202-980-7	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
1H-1,2,3-benzotriazole CAS No.: 95-14-7 EC No.: 202-394-1	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
3-iodo-2-propynyl butylcarbamate CAS No.: 55406-53-6 EC No.: 259-627-5	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

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### Waste treatment options

#### Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal. Dispose of waste according to applicable legislation.

#### Appropriate disposal / Package:

Non-contaminated packages may be recycled. Packing which cannot be properly cleaned must be disposed of. Dispose of waste according to applicable legislation.

## SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1. UN number or ID number</b>			
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.
<b>14.2. UN proper shipping name</b>			
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.
<b>14.3. Transport hazard class(es)</b>			
not relevant			
<b>14.4. Packing group</b>			
not relevant			
<b>14.5. Environmental hazards</b>			
not relevant			
<b>14.6. Special precautions for user</b>			
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

##### 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.

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

Observe in addition any national regulations!

#### 15.1.2. National regulations

##### [DE] National regulations

##### Störfallverordnung

##### 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.

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### Technische Anleitung Luft (TA-Luft)

**Remark:**

Weight fraction (Number 5.2.5. I): < 5

**Water hazard class**

**WGK:**

1 - schwach wassergefährdend

**Remark:**

Self-classification (mixture; calculation rule).

**Other regulations, restrictions and prohibition regulations**

No flammable liquid according to BetrSichV.

**15.2. Chemical Safety Assessment**

No information available.

## SECTION 16: Other information

\* **16.1. Indication of changes**

3.2.	Mixtures
5.1.	Extinguishing media
5.3.	Advice for firefighters
5.4.	Additional information
6.4.	Reference to other sections
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
11.2.	Information on other hazards
12.1.	Toxicity
12.2.	Persistence and degradability
12.3.	Bioaccumulative potential
12.5.	Results of PBT and vPvB assessment
12.6.	Endocrine disrupting properties
12.7.	Other adverse effects
13.1.	Waste treatment methods
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
16.1.	Indication of changes

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### 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)  
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]

#### 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.	

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

Hazard statements	
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.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure. (...)
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

### 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