

# SAFETY DATA SHEET

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

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## Mabanol Krypton Eco 10W-40

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

#### \* 1.1. Product identifier

Trade name/designation:

Mabanol Krypton Eco 10W-40

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

Use of the substance/mixture:

Motor oil

#### 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
Hazardous to the aquatic environment (Aquatic Chronic 3)	H412: Harmful to aquatic life with long lasting effects.	

#### \* 2.2. Label elements

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

Hazard components for labelling:

Phenol, (tetrapropenyl) derivatives; Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)

##### Hazard statements for environmental hazards

H412	Harmful to aquatic life with long lasting effects.
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##### Precautionary statements Prevention

P273	Avoid release to the environment.
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##### Precautionary statements Disposal

P501	Dispose of contents/container to Dispose of waste according to applicable legislation..
------	-----------------------------------------------------------------------------------------

#### Additional information:

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. This mixture contains no substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH.

#### \* 2.3. Other hazards

No data available

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## Mabanol Krypton Eco 10W-40

### SECTION 3: Composition / information on ingredients

#### 3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 64742-54-7 EC No.: 265-157-1 REACH No.: 01-2119484627-25	Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7) Asp. Tox. 1 H304	35 - < 40 Wt %
CAS No.: 85940-28-9 EC No.: 288-917-4 REACH No.: 01-2119521201-61	Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts Aquatic Chronic 2, Eye Irrit. 2, Skin Irrit. 2 H315-H319-H411	1 - < 5 Wt %
CAS No.: 74499-35-7	Phenol, (tetrapropenyl) derivatives Aquatic Acute 1, Aquatic Chronic 1, Eye Dam. 1, Repr. 1B, Skin Corr. 1C <b>Danger</b> H314-H360F-H410 M-factor (acute): 10 M-factor (chronic): 10	< 0.1 Wt %

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

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

##### Following inhalation:

Remove casualty to fresh air and keep warm and at rest. 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. Remove contaminated, saturated clothing immediately. In case of skin irritation, consult a physician.

##### After eye contact:

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

##### After ingestion:

Do NOT induce vomiting. Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). 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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media:

Foam. Extinguishing powder. Carbon dioxide (CO<sub>2</sub>). Sand.

In case of major fire and large quantities: 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.

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### Hazardous combustion products:

In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Sulphur dioxide (SO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>).

### 5.3. Advice for firefighters

Do not inhale explosion and combustion gases. In case of fire: Wear self-contained breathing apparatus.

### 5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Co-ordinate fire-fighting measures to the fire surroundings.

## 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. Avoid contact with skin, eyes and clothes. Avoid: aerosol or mist formation. Ventilate affected area. 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

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Prevent spread over a wide area (e.g. by containment or oil barriers).

### 6.3. Methods and material for containment and cleaning up

#### For cleaning up:

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste 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). Avoid contact with skin, eyes and clothes.

Avoid: Generation/formation of mist. generation/formation of aerosols.

##### Fire prevent measures:

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

Fire class: B (Fires of liquids or liquid turning substances).

##### 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: Gas. Explosives. P8 Oxidising liquids and solids. Radioactive substances. Infectious substances.

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**Storage class:** 10 - Combustible liquids that cannot be assigned to any of the above storage classes

**Further information on storage conditions:**

Temperature control required. Keep container tightly closed. Do not allow contact with air.

Protect against: UV-radiation/sunlight. Light. Air.

### 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

No data available

#### 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 heavy paraffinic (CAS 64742-54-7) CAS No.: 64742-54-7	5.4 mg/m <sup>3</sup>	① DNEL worker ② inhalative, long-term, local ③ 8 h
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7) CAS No.: 64742-54-7	1.2 mg/m <sup>3</sup>	① DNEL Consumer ② inhalative, long-term, local ③ 24 h
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts CAS No.: 85940-28-9	6.6 mg/m <sup>3</sup>	① DNEL worker ② inhalative, long-term, systemic
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts CAS No.: 85940-28-9	1.67 mg/m <sup>3</sup>	① DNEL Consumer ② inhalative, long-term, systemic
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts CAS No.: 85940-28-9	9.6 mg/kg bw/day	① DNEL worker ② dermal, long-term, systemic
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts CAS No.: 85940-28-9	4.8 mg/kg bw/day	① DNEL Consumer ② dermal, long-term, systemic
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts CAS No.: 85940-28-9	0.19 mg/kg bw/day	① DNEL worker ② oral, long-term, systemic

Substance name	PNEC Value	① PNEC type
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7) CAS No.: 64742-54-7	9.33 mg/kg	① PNEC secondary poisoning
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts CAS No.: 85940-28-9	0.002 mg/l	① PNEC aquatic, freshwater
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts CAS No.: 85940-28-9	0 mg/l	① PNEC aquatic, marine water
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts CAS No.: 85940-28-9	100 mg/l	① PNEC sewage treatment plant
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts CAS No.: 85940-28-9	19.3 mg/kg	① PNEC sediment, freshwater

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Substance name	PNEC Value	① PNEC type
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts CAS No.: 85940-28-9	1.93 mg/kg	① PNEC sediment, marine water
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts CAS No.: 85940-28-9	15.7 mg/kg	① PNEC soil

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Provide adequate ventilation.

#### 8.2.2. Personal protection equipment



##### Eye/face protection:

Eye glasses with side protection (DIN EN 166). Face protection shield.

##### Skin protection:

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

Suitable material: NBR (Nitrile rubber), Neoprene, FKM (fluoro rubber). 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.

Suitable protective clothing: flame-resistant.

##### Respiratory protection:

Usually no personal respiratory protection necessary.

Respiratory protection necessary at: exceeding exposure limit values, aerosol or mist formation. Suitable respiratory protection apparatus: Filtering device (full mask or mouthpiece) with filter: A2, A2/P2, ABEK.

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

#### 8.2.3. Environmental exposure controls

No data available

### 8.3. Additional information

air limit values:

Possibility of exposure to Aerosols

Limit value (TLV-TWA) = 5 mg/m<sup>3</sup> (Source: ACGIH)

Limit value (TLV-STEL) = 10 mg/m<sup>3</sup> (Source: ACGIH)

## SECTION 9: Physical and chemical properties

### \* 9.1. Information on basic physical and chemical properties

#### Appearance

Physical state: Liquid

Colour: clear

Odour: not determined

#### Safety relevant basis data

parameter		at °C	Method	Remark
pH	<i>not determined</i>			
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	<i>not determined</i>			
Decomposition temperature	<i>not determined</i>			
Flash point	241 °C		DIN ISO 2592	

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parameter		at °C	Method	Remark
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	0.8686 g/cm <sup>3</sup>	15 °C	DIN 51757	
Bulk density	<i>not determined</i>			
Water solubility	<i>not determined</i>			
Partition coefficient: n-octanol/ water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	87.68 mm <sup>2</sup> /s	40 °C	DIN EN ISO 3104	
Pour point	-42 °C			

### 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 toxicological effects

CAS No.	Substance name	Toxicological information
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	<b>LD<sub>50</sub> oral:</b> >5,000 mg/kg (Rat) OECD 420 <b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Rabbit) OECD 402
85940-28-9	Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	<b>LD<sub>50</sub> oral:</b> =3,080 mg/kg (Rat) <b>LD<sub>50</sub> dermal:</b> >20,000 mg/kg (Rabbit) <b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> >2.3 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.

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### Acute inhalation toxicity:

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

### Skin corrosion/irritation:

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

### Serious eye damage/irritation:

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

### Respiratory or skin sensitisation:

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

### 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.

## SECTION 12: Ecological information

### \* 12.1. Toxicity

CAS No.	Substance name	Toxicological information
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	<b>NOEC:</b> 10 mg/l 21 d (crustaceans, Daphnia magna (Big water flea)) OECD 211
85940-28-9	Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	<b>ErC<sub>50</sub>:</b> 2.1 mg/l 3 d (Algae/water plant, Selenast rum capricornutum) <b>EC<sub>50</sub>:</b> 5.4 mg/l 2 d (crustaceans, Daphnia magna (Big water flea)) <b>NOEC:</b> 0.4 mg/l 21 d (crustaceans, Daphnia magna (Big water flea))

### \* 12.2. Persistence and degradability

CAS No.	Substance name	Biodegradation	Remark
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	—	Not readily biodegradable (according to OECD criteria)
85940-28-9	Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	—	Not readily biodegradable (according to OECD criteria)

### Additional information:

The product is slightly soluble in water. It can be largely eliminated from the water by abiotic processes, e.g. mechanical separation.

### \* 12.3. Bioaccumulative potential

CAS No.	Substance name	Log K <sub>ow</sub>	Bioconcentration factor (BCF)
85940-28-9	Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	8.87	1,000

### 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

CAS No.	Substance name	Results of PBT and vPvB assessment
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
85940-28-9	Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
74499-35-7	Phenol, (tetrapropenyl) derivates	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.

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

### 12.6. 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 packaging:

15 01 10 *	packaging containing residues of or contaminated by dangerous substances
------------	--------------------------------------------------------------------------

\*: Evidence for disposal must be provided.

#### Waste treatment options

##### Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

##### Appropriate disposal / Package:

Handle contaminated packages in the same way as the substance itself. Non-contaminated packages may be recycled.

## 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-No.</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			



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**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
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.

Use restriction according to REACH annex XVII, no.: 30: Phenol, (tetrapropenyl) derivatives.

Directive 2010/75/EU on industrial emissions: 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.

##### Technische Anleitung Luft (TA-Luft)

##### Klasse 1:

5.2.5: organic substances, to be indicated as total carbon at  $m \geq 0.50$  kg/h: Konz.  $50 \text{ mg/m}^3$

##### Anteil 1:

90 %

##### Water hazard class (WGK)

##### WGK:

2 - deutlich wassergefährdend

##### Remark:

Self-classification (mixture; calculation rule).

#### 15.2. Chemical Safety Assessment

not applicable.

#### 15.3. Additional information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

### SECTION 16: Other information

#### 16.1. Indication of changes

1.1.	Product identifier
2.2.	Label elements
2.3.	Other hazards
3.2.	Mixtures
8.1.	Control parameters
9.1.	Information on basic physical and chemical properties
11.1.	Information on toxicological effects
12.1.	Toxicity
12.2.	Persistence and degradability
12.3.	Bioaccumulative potential
12.5.	Results of PBT and vPvB assessment
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture

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## Mabanol Krypton Eco 10W-40

### 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  
vPvB: very persistent and very bioaccumulative  
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
Hazardous to the aquatic environment (Aquatic Chronic 3)	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	
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H360F	May damage fertility.
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

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

health hazards: Calculation method.

Environmental hazards: Calculation method.

Physical hazards: On basis of test data.

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