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## Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

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

#### 1.1. Product identifier

Trade name/designation:

RAVENOL Kaltreiniger lösemittelfrei

Article No.:

1360002

UFI:

70E7-MEEC-7KA6-8F6X

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

Use of the substance/mixture:

Reiniger

#### 1.3. Details of the supplier of the safety data sheet

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

Ravensberger Schmierstoffvertrieb GmbH

Jöllenbecker Str. 2

33824 Werther

D

Telephone: +49 5203 9719 0

Telefax: +49 5203 9719 40

E-mail: kontakt@ravenol.de

Website: www.ravenol.de

E-mail (competent person): technik@ravenol.de

#### 1.4. Emergency telephone number

Abt. Technik (Produktsicherheit), 24h: +49 700 24 112 112 (Contract ID: RAV) , +49 5203 9719 0 (Mo-Do 7.30 Uhr - 16.30 Uhr, Fr 7.30 Uhr - 13.15 Uhr) (Only available during office hours.)

### 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
Serious eye damage/eye irritation (Eye Dam. 1)	H318: Causes serious eye damage.	

#### 2.2. Label elements

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

Hazard pictograms:



**GHS05**  
Corrosion

Signal word: Danger

Hazard components for labelling:

Isotridecanol, ethoxylated

**hazard statements for health hazards**

H318	Causes serious eye damage.
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Supplemental hazard information: -



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#### Precautionary Statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.

#### Precautionary Statements Prevention

P233	Keep container tightly closed.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

#### Precautionary Statements Response

P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor/Emergency telephone number.

#### Precautionary Statements Disposal

P501	Dispose of contents/container to according to official regulations for disposal.
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### 2.3. Other hazards

No data available

## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

#### Additional information:

Labelling for contents according to regulation (EC) No. 648/2004: non-ionic surfactants, phosphates 5-15%, perfumes <5%

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

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 69011-36-5 EC No.: 500-241-6 REACH No.: 01-2119976362-32-0000	<b>Isotridecanol, ethoxylated</b> Acute Tox. 4, Eye Dam. 1 <b>Danger</b> H302-H318	2.5 - < 10 weight-%
CAS No.: 7320-34-5 EC No.: 230-785-7	<b>tetrapotassium pyrophosphate</b> Eye Irrit. 2 <b>Warning</b> H302	2.5 - < 10 weight-%
CAS No.: 112-34-5 EC No.: 203-961-6 REACH No.: 01-2119475104-44	<b>2-(2-butoxyethoxy)ethanol</b> Eye Irrit. 2 <b>Warning</b> H319	2.5 - < 10 weight-%
CAS No.: 28348-53-0 EC No.: 248-983-7	<b>sodium cumenesulphonate</b> Eye Irrit. 2 H319	1 - < 2.5 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:

Remove contaminated, saturated clothing immediately.

#### Following inhalation:

Provide fresh air. If unconscious place in recovery position and seek medical advice.

#### In case of skin contact:

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap.

#### After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

#### After ingestion:

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.



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**Self-protection of the first aider:**

First aider: Pay attention to self-protection!

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

Causes serious eye damage.

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

No data available

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media:**

In case of fire, use sand, extinguishing powder or alcohol resistant foam.

**Unsuitable extinguishing media:**

Full water jet

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

**Hazardous combustion products:**

Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide, Carbon dioxide (CO<sub>2</sub>)

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

**5.4. Additional information**

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

Fire class: B

**SECTION 6: Accidental release measures**

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

**6.1.1. For non-emergency personnel**

**Personal precautions:**

Avoid contact with skin, eyes and clothes.

**Protective equipment:**

Use personal protection equipment.

**Emergency procedures:**

Remove persons to safety. Provide adequate ventilation.

**6.1.2. For emergency responders**

**Personal protection equipment:**

Use appropriate respiratory protection.

**6.2. Environmental precautions**

Dilute with plenty of water.

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

**For containment:**

Suitable material for taking up: Sand, Kieselguhr, Universal binder, Chemical binding agents, containing acids

**For cleaning up:**

Dilute with plenty of water.

**Other information:**

Treat the recovered material as prescribed in the section on waste disposal.

**6.4. Reference to other sections**

SECTION 7: Handling and storage

SECTION 8: Exposure controls/personal protection

SECTION 13: Disposal considerations

**6.5. Additional information**

Clear spills immediately.



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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Protective measures

##### Advices on safe handling:

Keep container tightly closed.

##### Fire prevent measures:

No special fire protection measures are necessary.

##### Measures to prevent aerosol and dust generation:

See protective measures under point 7 and 8.

##### Environmental precautions:

See section 8.

#### Advices on general occupational hygiene

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff. Remove contaminated, saturated clothing immediately.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions:

Keep container tightly closed.

#### Packaging materials:

Keep only in original container.

#### Requirements for storage rooms and vessels:

No special measures are necessary.

#### Hints on storage assembly:

TRGS 510

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

#### Further information on storage conditions:

Observe technical data sheet.

### 7.3. Specific end use(s)

#### Recommendation:

Cleaning agent

## 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	<b>① long-term occupational exposure limit value</b> <b>② short-term occupational exposure limit value</b> <b>③ Instantaneous value</b> <b>④ Monitoring and observation processes</b> <b>⑤ Remark</b>
BE	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	<b>①</b> 10 ppm (67.5 mg/m <sup>3</sup> ) <b>②</b> 15 ppm (101.2 mg/m <sup>3</sup> )
CZ	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	<b>①</b> 10.57 ppm (70 mg/m <sup>3</sup> ) <b>②</b> 15.1 ppm (100 mg/m <sup>3</sup> )
NO	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	<b>①</b> 10 ppm (68 mg/m <sup>3</sup> )
IE	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	<b>①</b> 10 ppm (67.5 mg/m <sup>3</sup> ) <b>②</b> 15 ppm (101.2 mg/m <sup>3</sup> ) <b>⑤</b> IOELV
FI	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	<b>①</b> 10 ppm (68 mg/m <sup>3</sup> )
DK	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	<b>①</b> 10 ppm (68 mg/m <sup>3</sup> )
LT	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	<b>①</b> 10 ppm (67.5 mg/m <sup>3</sup> ) <b>②</b> 15 ppm (101.2 mg/m <sup>3</sup> ) <b>⑤</b>



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Limit value type (country of origin)	Substance name	<b>① long-term occupational exposure limit value</b> <b>② short-term occupational exposure limit value</b> <b>③ Instantaneous value</b> <b>④ Monitoring and observation processes</b> <b>⑤ Remark</b>
SE	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	① 10 ppm (68 mg/m <sup>3</sup> ) ② 15 ppm (101 mg/m <sup>3</sup> )
NPEL (SK)	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	① 10 ppm (67.5 mg/m <sup>3</sup> ) ② 15 ppm (101.2 mg/m <sup>3</sup> )
WEL (GB)	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	① 10 ppm (67.5 mg/m <sup>3</sup> ) ② 15 ppm (101.2 mg/m <sup>3</sup> )
VRI (FR)	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	① 10 ppm (67.5 mg/m <sup>3</sup> ) ② 15 ppm (101.2 mg/m <sup>3</sup> ) ⑤ réglementaire indicative
MAK (AT)	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	② 15 ppm (101.2 mg/m <sup>3</sup> ) ⑤ (max. 4x15 min./Schicht)
TRGS 900 (DE)	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	① 10 ppm (67 mg/m <sup>3</sup> ) ② 15 ppm (100.5 mg/m <sup>3</sup> ) ⑤ (Aerosol und Dampf)
HU	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	① 67.5 mg/m <sup>3</sup> ② 101.2 mg/m <sup>3</sup>
BG	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	① 10 ppm (67.5 mg/m <sup>3</sup> ) ② 15 ppm (101.2 mg/m <sup>3</sup> )
HR	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	① 10 ppm (67.5 mg/m <sup>3</sup> ) ② 15 ppm (101.2 mg/m <sup>3</sup> )
EE	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	① 10 ppm (67.5 mg/m <sup>3</sup> ) ⑤ (2-(2-butoksüetoksü)etanool)
ES	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	① 10 ppm (67.5 mg/m <sup>3</sup> ) ② 15 ppm (101.2 mg/m <sup>3</sup> ) ⑤ VLI,r
LV	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	① 10 ppm (67.5 mg/m <sup>3</sup> ) ② 15 ppm (101.2 mg/m <sup>3</sup> )
RO	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	① 10 ppm (67.5 mg/m <sup>3</sup> ) ② 15 ppm (101.2 mg/m <sup>3</sup> )
IOELV (EU)	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	① 10 ppm (67.5 mg/m <sup>3</sup> ) ② 15 ppm (101.2 mg/m <sup>3</sup> )
SI	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	① 10 ppm (67.5 mg/m <sup>3</sup> ) ② 15 ppm (101.2 mg/m <sup>3</sup> )
IS	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	① 10 ppm (67.5 mg/m <sup>3</sup> ) ② 15 ppm (101.2 mg/m <sup>3</sup> )
CH	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	① 10 ppm (67 mg/m <sup>3</sup> ) ② 15 ppm (101 mg/m <sup>3</sup> )
MAK (AT)	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	① 10 ppm (67.5 mg/m <sup>3</sup> )
GR	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	① 10 ppm (67.5 mg/m <sup>3</sup> ) ② 15 ppm (101.2 mg/m <sup>3</sup> )
NL	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	① 50 mg/m <sup>3</sup> ② 100 mg/m <sup>3</sup> ⑤ (kan door de huid in het lichaam worden opgenomen)
ACGIH (US)	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	① 10 ppm (67.5 mg/m <sup>3</sup> ) ⑤ (inhalable fraction and vapor)
KR	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	① 10 ppm



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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
TR	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	① 10 ppm (67.5 mg/m <sup>3</sup> ) ② 15 ppm (101.2 mg/m <sup>3</sup> )
PL	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	① 67 mg/m <sup>3</sup> ② 100 mg/m <sup>3</sup>
RU	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	③ 10 mg/m <sup>3</sup>

### 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
Isotridecanol, ethoxylated CAS No.: 69011-36-5	294 mg/m <sup>3</sup>	① DNEL worker ② inhalative, long-term, systemic
tetrapotassium pyrophosphate CAS No.: 7320-34-5	44.08 mg/m <sup>3</sup>	① DNEL worker ② inhalative, long-term, systemic
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	67.5 mg/m <sup>3</sup>	① DNEL worker ② inhalative, long-term, systemic
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	67.5 mg/m <sup>3</sup>	① DNEL worker ② inhalative, long-term, local
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	101.2 mg/m <sup>3</sup>	① DNEL worker ② inhalative, short-term, local, (acute)
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	20 mg/kg bw/day	① DNEL worker ② dermal, long-term, systemic

Substance name	PNEC Value	① PNEC type
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	1 mg/l	① PNEC aquatic, freshwater
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	0.1 mg/l	① PNEC aquatic, marine water
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	200 mg/l	① PNEC sewage treatment plant
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	4 mg/kg bw/day	① PNEC sediment, freshwater
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	0.4 mg/kg bw/day	① PNEC sediment, marine water

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

See section 7. No additional measures necessary.

### 8.2.2. Personal protection equipment

#### Eye/face protection:

During transfer: Eye glasses with side protection

#### Skin protection:

Hand protection

Suitable material: Butyl caoutchouc (butyl rubber)

Thickness of the glove material:  $\geq 0,3$  mm

Breakthrough time (maximum wearing time) 480 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.

Suitable protective clothing: Protective clothing



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**Respiratory protection:**

Usually no personal respirative protection necessary.

**8.2.3. Environmental exposure controls**

See section 7. No additional measures necessary.

**SECTION 9: Physical and chemical properties**

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

**Appearance**

**Physical state:** Liquid

**Colour:** colourless

**Odour:** Lemon

**Safety relevant basis data**

parameter		at °C	Method	Remark
pH	11			
Melting point	not determined			
Freezing point	not determined			
Initial boiling point and boiling range	100 °C			
Decomposition temperature	not determined			
Flash point	181 °C			
Evaporation rate	not determined			
Auto-ignition temperature	not determined			
Upper/lower flammability or explosive limits	not determined			
Vapour pressure	not determined			
Vapour density	not determined			
Density	1,055 kg/m <sup>3</sup>	20 °C		
Bulk density	not determined			
Water solubility	completely miscible			
Partition coefficient: n-octanol/water	not determined			
Dynamic viscosity	not determined			
Kinematic viscosity	not determined	40 °C		

**9.2. Other information**

Solvent content:

organic solvents: 5,0%

Water: 77,9%

Solid content (%) 7,1

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No known hazardous reactions.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

No hazardous reaction when handled and stored according to provisions.

**10.4. Conditions to avoid**

No special measures are necessary.

**10.5. Incompatible materials**

No information available.

**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
69011-36-5	Isotridecanol, ethoxylated	<b>LD<sub>50</sub> oral:</b> 500 mg/kg <b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg
112-34-5	2-(2-butoxyethoxy)ethanol	<b>LD<sub>50</sub> oral:</b> 5,660 mg/kg (Rat) <b>LD<sub>50</sub> dermal:</b> 4,000 mg/kg (Rabbit)
28348-53-0	sodium cumenesulphonate	<b>LD<sub>50</sub> oral:</b> >7,000 mg/kg (Rat)

**Acute oral toxicity:**

ATEmix calculated: 5005 mg/kg. 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:**

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

**Serious eye damage/irritation:**

Causes serious eye damage.

**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.

## SECTION 12: Ecological information

### 12.1. Toxicity

**Assessment/classification:**

The product has not been tested.

### 12.2. Persistence and degradability

**Additional information:**

The product has not been tested.

### 12.3. Bioaccumulative potential

**Accumulation / Evaluation:**

The product has not been tested.

### 12.4. Mobility in soil

The product has not been tested.





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## 12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
69011-36-5	Isotridecanol, ethoxylated	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
7320-34-5	tetrapotassium pyrophosphate	—
112-34-5	2-(2-butoxyethoxy)ethanol	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
28348-53-0	sodium cumenesulphonate	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

The surfactants contained in this mixture comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.  
 slightly hazardous to water (WGK 1)  
 Do not allow to enter into surface water or drains.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Dispose of waste according to applicable legislation.

#### 13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

**Waste code product:**

**Remark:**

Delivery to an approved waste disposal company.

### Waste treatment options

#### Appropriate disposal / Product:

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

#### Appropriate disposal / Package:

Dispose of waste according to applicable legislation.

### 13.2. Additional information

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

## SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	
<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.	
<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.	
<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			



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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)
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#### 14.6. Special precautions for user

not relevant

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

not applicable

### 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.

##### 15.1.2. National regulations



###### [DE] National regulations

###### Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

###### Störfallverordnung

###### for substances contained in the product:

This product is not assigned to a hazard category.  
Not subject to StörfallVO.

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

###### Remark:

Water: 77,9%  
TA-Luft Class NK: 5,0%

###### Water hazard class (WGK)

###### WGK:

1 - schwach wassergefährdend

###### Description:

slightly hazardous to water (WGK 1)

###### Source:

Self-classification (mixture; calculation rule).

###### Technische Regeln für Gefahrstoffe

Minimum protective measures according to TRGS 500  
TRGS 510

###### Berufsgenossenschaftliche Vorschriften (BGV)

Berufsgenossenschaftliche Informationen (BGI) 868  
Berufsgenossenschaftliche Regeln (BGR) 189, 190, 192, 195



###### [CH] National regulations

###### Other regulations, restrictions and prohibition regulations

Mengenschwelle (Schweiz - StFV)  
Gefahrencode  
Brandverhütung, BVD (Schweiz)  
Störfallverordnung (StFV)

##### 15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.



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## SECTION 16: Other information

### 16.1. Indication of changes

9.1.	Information on basic physical and chemical properties
11.1.	Information on toxicological effects
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
15.3.	Additional information

### 16.2. Abbreviations and acronyms

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

See overview table at [www.euphrac.eu](http://www.euphrac.eu)

### 16.3. Key literature references and sources for data

67/548/EEC - Dangerous Substances Directive

1999/45/EEC - Dangerous Preparations Directive

EC 1907/2006 - REACH Regulation

1272/2008 EC - Regulation on classification, labeling and packaging of substances and mixtures, and amending Directives 67/548/EEC and 1999/45/EC and Regulation (EC) No 1907/2006

Regulation (EC) No 1907/2006 (REACH), Annex II

European Chemicals Agency (ECHA), C & L classification and labeling inventory

European Chemicals Agency (ECHA), ECHA CHEM Registered substances

OECD The Global Portal to Information on Chemical Substances (ChemPortal)

Institute for Occupational Safety and Health of the German Social Accident Insurance (IFA): GESTIS substance database and International limit values for chemical substances

Federal Environment Agency, Section IV 2.4: Documentation and Information Centre substances

hazardous to water Rigoletto (catalog substances hazardous to water)

### 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
Serious eye damage/eye irritation (Eye Dam. 1)	H318: Causes serious eye damage.	

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

Hazard statements	
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

### 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