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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 VDL SAE 5W-40

Article No.:

1111132

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

Use of the substance/mixture:

Lubricant

#### 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]:

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

#### \* 2.2. Label elements

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

According to EC directives or the corresponding national regulations the product does not have to be labelled.

Hazard statements: -

##### Supplemental hazard information

EUH210 Safety data sheet available on request.

Precautionary Statements: -

#### 2.3. Other hazards

No data available





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## 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.: 68649-42-3 EC No.: 272-028-3 REACH No.: 01-2120742271-64	<b>Zinc dialkyldithiophosphate</b> Aquatic Acute 1, Aquatic Chronic 3, Eye Irrit. 2 H319-H400-H412	0 - < 1 Wt %
CAS No.: 4259-15-8 EC No.: 224-235-5 REACH No.: 01-2119493635-27	<b>zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)</b> Aquatic Chronic 2, Eye Dam. 1   <b>Danger</b> H318-H411	0 - < 0.05 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). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious place in recovery position and seek medical advice. Do not leave affected person unattended.

#### Following inhalation:

Provide fresh air. Consult a doctor immediately.

#### In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Consult a doctor immediately.

#### 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:

Rinse mouth thoroughly with water. Do NOT induce vomiting. Consult a doctor immediately.

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

Use personal protection equipment. No direct artificial respiration to be given by first aider.

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

No known symptoms to date.

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

Treat symptomatically. Observe risk of aspiration if vomiting occurs.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media:

Co-ordinate fire-fighting measures to the fire surroundings.

Carbon dioxide (CO<sub>2</sub>)

Extinguishing powder

alcohol resistant foam

Use water spray jet to protect personnel and to cool endangered containers.

#### Unsuitable extinguishing media:

Full water jet

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

During heating or in case of fire, toxic gases is possible.

The formation of combustible vapours is possible at temperatures above: Flash point

#### Hazardous combustion products:

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

During heating or in case of fire, toxic gases is possible.

### 5.3. Advice for firefighters

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



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#### 5.4. Additional information

Do not inhale explosion and combustion gases. Move undamaged containers from immediate hazard area if it can be done safely. 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. Special danger of slipping by leaking/spilling product. Remove persons to safety.

###### Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection.

###### Emergency procedures:

Remove persons to safety.

##### 6.1.2. For emergency responders

###### Personal protection equipment:

Use personal protection equipment.

#### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

###### For containment:

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

Prevent spread over a wide area (e.g. by containment or oil barriers).

###### For cleaning up:

Remove from the water surface (e.g. skimming, sucking). Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

###### Other information:

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

#### 6.4. Reference to other sections

Safe handling: see section 7

Disposal: see section 13

Personal protection equipment: see section 8

#### 6.5. Additional information

Clear spills immediately. Use appropriate container to avoid environmental contamination.

### SECTION 7: Handling and storage

#### \* 7.1. Precautions for safe handling

##### Protective measures

###### Advices on safe handling:

Personal protection equipment: see section 8. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Do not put any product-impregnated cleaning rags into your trouser pockets. Clear spills immediately. Use appropriate container to avoid environmental contamination.

###### Fire prevent measures:

No special fire protection measures are necessary.

###### Environmental precautions:

Shafts and sewers must be protected from entry of the product.

##### Advices on general occupational hygiene

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

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

##### Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.



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### Requirements for storage rooms and vessels:

Suitable container/equipment material: Floors should be impervious, resistant to liquids and easy to clean. Shafts and sewers must be protected from entry of the product.  
 Keep/Store only in original container.

### Hints on storage assembly:

not required

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

### Further information on storage conditions:

Store in a cool dry place. Keep away from heat.

## 7.3. Specific end use(s)

### Recommendation:

Observe technical data sheet.

## 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
CH	diphenylamine CAS No.: 122-39-4	① 10 mg/m <sup>3</sup> ⑤ (eintembare Fraktion, kann über die Haut aufgenommen werden)
BE	diphenylamine CAS No.: 122-39-4	① 10 mg/m <sup>3</sup>
CZ	diphenylamine CAS No.: 122-39-4	① 10 mg/m <sup>3</sup> ② 20 mg/m <sup>3</sup>
NO	diphenylamine CAS No.: 122-39-4	① 5 mg/m <sup>3</sup>
IE	diphenylamine CAS No.: 122-39-4	① 10 mg/m <sup>3</sup> ② 20 mg/m <sup>3</sup>
MY	diphenylamine CAS No.: 122-39-4	① 10 mg/m <sup>3</sup>
FI	diphenylamine CAS No.: 122-39-4	① 5 mg/m <sup>3</sup> ② 10 mg/m <sup>3</sup>
LT	diphenylamine CAS No.: 122-39-4	① 4 mg/m <sup>3</sup> ② 12 mg/m <sup>3</sup> ⑤
SE	diphenylamine CAS No.: 122-39-4	① 4 mg/m <sup>3</sup> ③ 12 mg/m <sup>3</sup>
MAK (AT)	diphenylamine CAS No.: 122-39-4	① 0.7 ppm (5 mg/m <sup>3</sup> ) ⑤ (eintembare Fraktion, kann über die Haut aufgenommen werden)
MAK (AT)	diphenylamine CAS No.: 122-39-4	② 1.4 ppm (10 mg/m <sup>3</sup> ) ⑤ (eintembare Fraktion, max. 4x15 min./Schicht, kann über die Haut aufgenommen werden)
DK	diphenylamine CAS No.: 122-39-4	① 5 mg/m <sup>3</sup> ② 10 mg/m <sup>3</sup>
BG	diphenylamine CAS No.: 122-39-4	① 10 mg/m <sup>3</sup>
HR	diphenylamine CAS No.: 122-39-4	① 10 mg/m <sup>3</sup> ② 20 mg/m <sup>3</sup>
RO	diphenylamine CAS No.: 122-39-4	① 4 mg/m <sup>3</sup> ② 6 mg/m <sup>3</sup>



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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
EE	diphenylamine CAS No.: 122-39-4	① 10 mg/m <sup>3</sup>
Alberta (CA)	diphenylamine CAS No.: 122-39-4	① 10 mg/m <sup>3</sup>
ES	diphenylamine CAS No.: 122-39-4	① 10 mg/m <sup>3</sup>
BC (CA)	diphenylamine CAS No.: 122-39-4	① 10 mg/m <sup>3</sup>
VLA (FR)	diphenylamine CAS No.: 122-39-4	① 10 mg/m <sup>3</sup>
WEL (GB)	diphenylamine CAS No.: 122-39-4	① 10 mg/m <sup>3</sup> ② 20 mg/m <sup>3</sup>
SI	diphenylamine CAS No.: 122-39-4	① 5 mg/m <sup>3</sup> ② 10 mg/m <sup>3</sup> ⑤ (frakcija ki jo je mogoče vdihniti, računati je treba z možnos tjo prodiranja skozi kožo)
TW	diphenylamine CAS No.: 122-39-4	① 10 mg/m <sup>3</sup>
KR	diphenylamine CAS No.: 122-39-4	① 10 mg/m <sup>3</sup>
IS	diphenylamine CAS No.: 122-39-4	① 5 mg/m <sup>3</sup>
CN	diphenylamine CAS No.: 122-39-4	① 10 mg/m <sup>3</sup>
GR	diphenylamine CAS No.: 122-39-4	① 10 mg/m <sup>3</sup> ② 20 mg/m <sup>3</sup>
TRGS 900 (DE)	diphenylamine CAS No.: 122-39-4	① 5 mg/m <sup>3</sup> ② 10 mg/m <sup>3</sup> ⑤ (kann über die Haut aufgenommen werden)
PL	diphenylamine CAS No.: 122-39-4	① 8 mg/m <sup>3</sup> ⑤ (wdychalna frakcja)
NIOSH (US)	diphenylamine CAS No.: 122-39-4	① 10 mg/m <sup>3</sup>
ACGIH (US)	diphenylamine CAS No.: 122-39-4	① 10 mg/m <sup>3</sup> ⑤ (A4)
Québec (CA)	diphenylamine CAS No.: 122-39-4	① 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
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based CAS No.: 72623-86-0	2.73 mg/m <sup>3</sup>	① DNEL worker ② inhalative, long-term, systemic
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based CAS No.: 72623-86-0	5.58	① DNEL worker ② inhalative, long-term, local
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based CAS No.: 72623-86-0	0.97 mg/kg	① DNEL worker ② dermal, long-term, systemic
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) CAS No.: 4259-15-8	6.6 mg/m <sup>3</sup>	① DNEL worker ② inhalative, long-term, systemic



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Substance name	DNEL value	① DNEL type ② Exposure route
Residual oils (petroleum), solvent-dewaxed CAS No.: 64742-62-7	2.73 mg/m <sup>3</sup>	① DNEL worker ② inhalative, long-term, systemic
Residual oils (petroleum), solvent-dewaxed CAS No.: 64742-62-7	5.58 mg/m <sup>3</sup>	① DNEL worker ② inhalative, long-term, local
Residual oils (petroleum), solvent-dewaxed CAS No.: 64742-62-7	0.97 mg/kg bw/day	① DNEL worker ② dermal, long-term, systemic

Substance name	PNEC Value	① PNEC type
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based CAS No.: 72623-86-0	9.99 mg/kg	① PNEC secondary poisoning
Residual oils (petroleum), solvent-dewaxed CAS No.: 64742-62-7	9.33 mg/kg bw/day	① PNEC secondary poisoning
Distillates (petroleum), solvent-refined heavy paraffinic CAS No.: 64741-88-4	9.33 mg/kg	① PNEC secondary poisoning

## \* 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  
Wear eye/face protection. DIN EN 166

#### Skin protection:

Hand protection

Suitable material: NBR (Nitrile rubber), PVC (polyvinyl chloride), CR (polychloroprene, chloroprene rubber)

Thickness of the glove material:  $\geq 0,4$  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.

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.

Tested protective gloves must be worn: EN ISO 374

Suitable protective clothing: Protective clothing

#### Respiratory protection:

Usually no personal respiratory protection necessary.

### 8.2.3. Environmental exposure controls

See section 7. No additional measures necessary.

## 8.3. Additional information

Mineral oil mist limits:

OSHA PEL - value 5 mg / m<sup>3</sup>, ACGIH STEL - value of 10 mg / m<sup>3</sup>

## SECTION 9: Physical and chemical properties

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

### Appearance

**Physical state:** Liquid

**Colour:** brown

**Odour:** characteristic



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## Safety relevant basis data

parameter		at °C	Method	Remark
pH	not determined			
Melting point	not determined			
Freezing point	not determined			
Initial boiling point and boiling range	not determined			
Decomposition temperature	not determined			
Flash point	240 °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	849 kg/m³	20 °C		
Bulk density	not determined			
Water solubility	The study does not need to be conducted because the substance is known to be insoluble in water.			
Partition coefficient: n-octanol/water	not determined			
Dynamic viscosity	not determined			
Kinematic viscosity	87.7 mm²/s	40 °C		

## 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No known hazardous reactions. Risk of explosion if heated under confinement.

### 10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

### 10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

### 10.4. Conditions to avoid

To avoid thermal decomposition do not overheat.

### 10.5. Incompatible materials

Materials to avoid: Acid, Oxidising agent, Reducing agent

### 10.6. Hazardous decomposition products

Hazardous combustion products: Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)

## SECTION 11: Toxicological information

### \* 11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
68649-42-3	Zinc dialkylidithiophosphate	<b>LD<sub>50</sub> oral:</b> 3,100 mg/kg (Rat) <b>LD<sub>50</sub> dermal:</b> 5,000 mg/kg (Rabbit)
4259-15-8	zinc bis[O,O-bis(2-ethylhexyl)]bis(dithiophosphate)	<b>LD<sub>50</sub> oral:</b> 3,100 mg/kg (rats) <b>LD<sub>50</sub> dermal:</b> >5,000 mg/kg (rabbits)





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**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:**

Based on available data, the classification criteria are not met.  
 Frequently or prolonged contact with skin may cause dermal irritation.

**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:**

Observe risk of aspiration if vomiting occurs.

## SECTION 12: Ecological information

### \* 12.1. Toxicity

CAS No.	Substance name	Toxicological information
68649-42-3	Zinc dialkyldithiophosphate	<b>LC<sub>50</sub></b> : 1.1 mg/l 4 d (fish, Brachydanio rerio (zebra-fish)) <b>EC<sub>50</sub></b> : 1.1 mg/l 2 d (crustaceans, Daphnia magna (Big water flea))
4259-15-8	zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	<b>LC<sub>50</sub></b> : 4.4 mg/l 4 d (fish, rainbow trout) OECD 203 <b>LC<sub>50</sub></b> : 75 mg/l 2 d (crustaceans, Daphnia magna) OECD 202 <b>NOEC</b> : 32 mg/l 2 d (crustaceans, Daphnia magna) OECD 202 <b>NOEC</b> : 220 mg/l 3 d (Algae/water plant, Scenedesmus subspicatus) OECD 201 <b>ErC<sub>50</sub></b> : 410 mg/l 3 d (Algae/water plant, Scenedesmus subspicatus) OECD 201

**Assessment/classification:**

The substance/mixture does not fulfill the criteria of the acute aquatic toxicity according to Regulation (EC) No 1272/2008 [CLP], Annex I.

**Additional ecotoxicological information:**

Do not allow uncontrolled discharge of product into the environment.

### \* 12.2. Persistence and degradability

**Biodegradation:**

Not readily biodegradable (according to OECD criteria)

### \* 12.3. Bioaccumulative potential

**Accumulation / Evaluation:**

The product has not been tested.

### 12.4. Mobility in soil

Floats on the water surface. Is adsorbed by soil, slight mobility.





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

CAS No.	Substance name	Results of PBT and vPvB assessment
68649-42-3	Zinc dialkyldithiophosphate	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
4259-15-8	zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	PBT-substance.

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.

**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:**

Non-contaminated packages may be recycled.

**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)	Air transport (ICAO-TI / IATA-DGR)
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\* **14.1. UN-No.**

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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\* **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.
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**14.3. Transport hazard class(es)**

not relevant

**14.4. Packing group**

not relevant

**14.5. Environmental hazards**

not relevant

**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**

No transport as bulk according to IBC Code.

## 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.

Safety data sheet available on request.

#### 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)

##### Remark:

To follow: 5.2.5.

##### Water hazard class (WGK)

##### WGK:

2 - deutlich wassergefährdend

##### Source:

Self-classification (mixture; calculation rule).  
Identification number 436

##### Technische Regeln für Gefahrstoffe

TRGS 510

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

##### Berufsgenossenschaftliche Vorschriften (BGV)

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

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

Altöl-Verordnung (AltöIV)

##### [DK] National regulations

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

Lister over stoffer og processer, der anses for at være kræftfremkaldende

##### [FR] National regulations

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

Tableaux de maladies professionnelles  
Nomenclature des installations classées pour la protection de l'environnement

##### [NL] National regulations

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

Lijst van kankerverwekkende, mutagene, en voor de voortplanting giftige stoffen SZW  
Algemeene beoordelingsmethodiek Water (ABM)  
Nederlandse emissierichtlijn (NeR)

##### [CH] National regulations

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

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

#### 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

1.2.	Relevant identified uses of the substance or mixture and uses advised against
1.4.	Emergency telephone number
2.1.	Classification of the substance or mixture
2.2.	Label elements
3.2.	Mixtures
4.2.	Most important symptoms and effects, both acute and delayed
4.3.	Indication of any immediate medical attention and special treatment needed
6.1.	Personal precautions, protective equipment and emergency procedures
7.1.	Precautions for safe handling
8.1.	Control parameters
8.2.	Exposure controls
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
13.1.	Waste treatment methods
14.1.	UN number
14.2.	UN proper shipping name
14.7.	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
16.1.	Indication of changes
16.5.	Relevant R-, H- and EUH-phrases (Number and full text)

### 16.2. Abbreviations and acronyms

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

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

### 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]:

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

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

Hazard statements	
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.



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## 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