RAVENOL

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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 SSG Spec Synt LKW Getriebeöl 75W-80

#### Article No.:

1221100

## **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]:

Hazard classes and hazard categories	Hazard statements	Classification pro cedure
Acute toxicity (oral) (Acute Tox. 4)	H302: Harmful if swallowed.	
Respiratory or skin sensitisation (Skin Sens. 1)	H317: May cause an allergic skin reaction.	
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	

#### **2.2. Label elements**

## Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms:



Signal word: Warning

#### Hazard components for labelling:

Reaction products of bis (4-methyl pentan-2-yl) phosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

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hazard statements for health hazards		
H302	Harmful if swallowed.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	

## Supplemental Hazard information (EU)

EUH208 Contains Reaction products of bis (4-methyl pentan-2-yl) phosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched). May produce an allergic reaction.

#### Precautionary statements Prevention P264 Wash hands thoroughly after handling.

Precautionary statements Response		
P301 + P312	IF SWALLOWED: Call a POISON CENTER/doctor/Emergency telephone number/ if you feel unwell.	
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.	
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.	
P337 + P313	If eye irritation persists: Get medical advice/attention.	
P337 + P313 If eye irritation persists: Get medical advice/attention. Precautionary statements Disposal		

Dispose of contents/container to an appropriate recycling or disposal facility.

#### P501

#### 2.3. Other hazards

No data available

## **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]	Concen- tration
CAS No.: 36878-20-3 EC No.: 253-249-4	bis(nonylphenyl)amine Aquatic Chronic 4 H413	1 - < 2 Wt %
EC No.: 931-384-6 REACH No.: 01-2119493620-38-0000	Reaction products of bis (4-methyl pentan-2-yl) phosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) Acute Tox. 4, Aquatic Chronic 2, Eye Dam. 1, Flam. Liq. 3, Skin Sens. 1 H226-H302-H317-H318-H411	1 - < 2 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. May cause an allergic skin reaction.

#### 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. Causes serious eye irritation.

#### After ingestion:

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

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	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 May produce an allergic reaction. Causes serious eye irritation.
	<b>4.3. Indication of any immediate medical attention and special treatment needed</b> Treat symptomatically. Observe risk of aspiration if vomiting occurs. Causes serious eye irritation.
	SECTION 5: Firefighting measures
*	<ul> <li>5.1. Extinguishing media</li> <li>Suitable extinguishing media:</li> <li>Co-ordinate fire-fighting measures to the fire surroundings.</li> <li>Carbon dioxide (CO2)</li> <li>Extinguishing powder</li> <li>alcohol resistant foam</li> <li>Use water spray jet to protect personnel and to cool endangered containers.</li> <li>Unsuitable extinguishing media:</li> <li>Full water jet</li> <li>5.2. Special hazards arising from the substance or mixture</li> <li>During heating or in case of fire, toxic gases is possible.</li> <li>The formation of combustible vapours is possible at temperatures above: Flash point</li> <li>When hot, product develops flammable vapours.</li> <li>Hazardous combustion products:</li> <li>Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx), Gases/vapours, toxic</li> <li>During heating or in case of fire, toxic gases is possible.</li> </ul>
	<b>5.3. Advice for firefighters</b> In case of fire: Wear self-contained breathing apparatus. Protective clothing.
	<b>5.4. Additional information</b> 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

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

## 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:**

Eliminate all ignition sources if safe to do so. Remove persons to safety. Provide adequate ventilation.

## 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).

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	<b>Other information:</b> 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 se	ction 13 ion equipment: see sec	tion 9				
-						
<b>6.5. Additional information</b> Clear spills immediately. Use appropriate container to avoid environmental contamination.						
SECTION 7: Handling and storage						
7.1. Precautio	ons for safe handli	ng				
<b>Protective me</b>	asures					
Advices on safe						
	rotection equipment (re					
		niff. Wash hands before breaks and after work. Do not put any				
	id environmental conta	your trouser pockets. Clear spills immediately. Use appropriate				
Fire prevent me						
	rotection measures are	necessary.				
Environmental						
See section 8.	-					
Advices on ge	neral occupational	hygiene				
Minimum standard for preventive measures while handling with working materials are specified i TRGS 500.						
7.2. Conditior	ns for safe storage	storage, including any incompatibilities				
Technical measu	ures and storage con					
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Limit value		
type (country	Substance name	Iong-term occupational exposure limit value
of origin)		(2) short-term occupational exposure limit value
		③ Instantaneous value
		Monitoring and observation processes     Demonstrate
NO	din h e nu de min e	Remark
NO	diphenylamine CAS No.: 122-39-4	① 5 mg/m <sup>3</sup>
IE	diphenylamine CAS No.: 122-39-4	<ol> <li>10 mg/m<sup>3</sup></li> <li>20 mg/m<sup>3</sup></li> </ol>
MY	diphenylamine	10 mg/m <sup>3</sup>
FI	CAS No.: 122-39-4 diphenylamine	
	CAS No.: 122-39-4	<ol> <li>5 mg/m<sup>3</sup></li> <li>10 mg/m<sup>3</sup></li> </ol>
LT	diphenylamine	① 4 mg/m <sup>3</sup>
	CAS No.: 122-39-4	2 12 mg/m <sup>3</sup>
		5
SE	diphenylamine	<ol> <li>4 mg/m<sup>3</sup></li> </ol>
	CAS No.: 122-39-4	③ 12 mg/m <sup>3</sup>
MAK (AT)	diphenylamine	① 0.7 ppm (5 mg/m <sup>3</sup> )
	CAS No.: 122-39-4	(5) (einatembare 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 (einatembare Fraktion, max. 4x15 min./Schicht, kann über die Haut aufgenommen werden)
DK	diphenylamine	① 5 mg/m <sup>3</sup>
BR	CAS No.: 122-39-4	2 10 mg/m <sup>3</sup>
BG	diphenylamine	10 mg/m <sup>3</sup>
	CAS No.: 122-39-4	
HR	diphenylamine	① 10 mg/m <sup>3</sup>
	CAS No.: 122-39-4	2 20 mg/m <sup>3</sup>
RO	diphenylamine	① 4 mg/m <sup>3</sup>
	CAS No.: 122-39-4	② 6 mg/m <sup>3</sup>
EE	diphenylamine CAS No.: 122-39-4	<ol> <li>10 mg/m<sup>3</sup></li> </ol>
Alberta (CA)	diphenylamine CAS No.: 122-39-4	<ol> <li>10 mg/m<sup>3</sup></li> </ol>
ES	diphenylamine CAS No.: 122-39-4	<ol> <li>10 mg/m<sup>3</sup></li> </ol>
BC (CA)	diphenylamine CAS No.: 122-39-4	① 10 mg/m <sup>3</sup>
DFG (DE)	diphenylamine	① 5 mg/m <sup>3</sup>
- ( )	CAS No.: 122-39-4	② 10 mg/m <sup>3</sup>
		<ol> <li>(einatembare Fraktion, kann über die Haut aufgenommen</li> </ol>
		werden)
VLA (FR)	diphenylamine CAS No.: 122-39-4	<ol> <li>10 mg/m<sup>3</sup></li> </ol>
WEL (GB)	diphenylamine	① 10 mg/m <sup>3</sup>
	CAS No.: 122-39-4	2 20 mg/m <sup>3</sup>
SI	diphenylamine	<ol> <li>5 mg/m<sup>3</sup></li> </ol>
	CAS No.: 122-39-4	(5) (frakcija ki jo je mogoče vdihniti, računati je treba z možnos
		tjo prodiranja skozi kožo)
TW	diphenylamine CAS No.: 122-39-4	<ol> <li>10 mg/m<sup>3</sup></li> </ol>
KR	diphenylamine CAS No.: 122-39-4	① 10 mg/m³
IS	diphenylamine CAS No.: 122-39-4	① 5 mg/m <sup>3</sup>

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Limit value type (country of origin)	Substance name	<ol> <li>long-term occupational exposure limit value</li> <li>short-term occupational exposure limit value</li> <li>Instantaneous value</li> <li>Monitoring and observation processes</li> <li>Remark</li> </ol>
CN	diphenylamine CAS No.: 122-39-4	① 10 mg/m <sup>3</sup>
GR	diphenylamine CAS No.: 122-39-4	<ol> <li>10 mg/m<sup>3</sup></li> <li>20 mg/m<sup>3</sup></li> </ol>
NIOSH (US)	diphenylamine CAS No.: 122-39-4	① 10 mg/m <sup>3</sup>
ACGIH (US)	diphenylamine CAS No.: 122-39-4	<ol> <li>10 mg/m<sup>3</sup></li> <li>(A4)</li> </ol>
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	<ol> <li>DNEL type</li> <li>Exposure route</li> </ol>
1,3,4-Thiadiazolidine-2,5-dithione, reaction produ cts with hydrogen peroxide and tert-nonanethiol CAS No.: 91648-65-6	4.408 mg/m <sup>3</sup>	<ol> <li>DNEL worker</li> <li>DNEL long-term inhalative (systemic)</li> </ol>

#### 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: >= 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 respirative 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>

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## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Appearance

**Physical state:** Liquid **Odour:** characteristic

Colour: red

#### Safety relevant basis data

parameter		at °C	Method	Remark
рН	not determined			
Melting point	not determined			
Freezing point	not determined			
Initial boiling point and boiling range	not determined			
Decomposition temperature	not determined			
Flash point	238 °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	855 kg/m <sup>3</sup>	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	55.15 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, Oxidizing agent, Reducing agent

## \* 10.6. Hazardous decomposition products

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

#### Further information

No information available.

\*

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## **SECTION 11: Toxicological information**

#### **11.1.** Information on toxicological effects

CAS No.	Substance name	Toxicological information
36878-20-3	bis(nonylphenyl)amine	LD <sub>50</sub> oral: 5,000 g/m <sup>3</sup> (Rat)
		<b>LD<sub>50</sub> dermal:</b> $>2,000 \text{ g/m}^3$ (Rabbit)
	Reaction products of bis (4-methyl pentan-2- yl) phosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)	LD <sub>50</sub> oral: ≈2,000 mg/kg (Rat)

#### Acute oral toxicity:

Pamatojoties uz pieejamajiem datiem, klasifikācijas kritēriji nav izpildīti. The product has not been tested.

#### Acute dermal toxicity:

No information available for acute dermal and inhalative toxicity.

#### Acute inhalation toxicity:

No information available for acute dermal and inhalative toxicity.

#### Skin corrosion/irritation:

Frequently or prolonged contact with skin may cause dermal irritation.

#### Serious eye damage/irritation:

Causes serious eye irritation.

#### Respiratory or skin sensitisation:

Contains Reaction products of bis (4-methyl pentan-2-yl) phosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched). May produce an allergic reaction.

#### Germ cell mutagenicity:

No indications of human germ cell mutagenicity exist.

#### Carcinogenicity:

No indication of human carcinogenicity.

## Reproductive toxicity:

No indications of human reproductive toxicity exist.

#### STOT-single exposure:

Pamatojoties uz pieejamajiem datiem, klasifikācijas kritēriji nav izpildīti.

#### **Aspiration hazard:**

Observe risk of aspiration if vomiting occurs.

## **SECTION 12: Ecological information**

#### \* 12.1. Toxicity

CAS No.	Substance name	Toxicological information
36878-20-3	bis(nonylphenyl)amine	<b>LC<sub>50</sub>:</b> >100 mg/l 4 d
		<b>EC<sub>50</sub>:</b> >100 mg/l 2 d
		<b>EC<sub>50</sub>:</b> 600 mg/l 3 d
	Reaction products of bis (4-methyl pentan-2- yl) phosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)	EC <sub>50</sub> : 6.4 – 15 mg/l 4 d (Acute (short-term) toxici ty to aquatic algae and cyanobacteria) NOEC: 1.7 – 3.3 mg/l 4 d (Acute (short-term) toxi city to aquatic algae and cyanobacteria) LC <sub>50</sub> : 24 mg/l 4 d LOEC: 3.2 mg/l 4 d

#### Assessment/classification:

The product has not been tested.

#### Additional ecotoxicological information:

Do not allow uncontrolled discharge of product into the environment.

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#### 12.2. Persistence and degradability

CAS No.	Substance name	Biodegradation	Remark
36878-20-3	bis(nonylphenyl)amine	No	
	Reaction products of bis (4-methyl pentan-2-yl) ph osphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)	No	

#### **Biodegradation:**

Not readily biodegradable (according to OECD criteria)

#### Additional information:

No information available.

#### 12.3. Bioaccumulative potential

CAS No.	Substance name	Log K <sub>OW</sub>	Bioconcentration factor (BCF)
36878-20-3	bis(nonylphenyl)amine	7.6	1,584.89

#### Accumulation / Evaluation:

The product has not been tested.

12.4. Mobility in soil

No data available.

## 12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
36878-20-3	bis(nonylphenyl)amine	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
	Reaction products of bis (4-methyl pentan-2-yl) phosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)	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 product has not been tested.

## **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 packaging:

#### **Remark:**

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)	
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.	

\*

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and transport (ADR/ ND)	Inland waterway craft (ADN)	Sea transport (IMDG)
4.2. UN proper sh	ipping name	
o dangerous good in sense of ese transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
4.3. Transport haz	ard class(es)	
not relevant		
4.4. Packing grou	р	
not relevant		
4.5. Environmenta	al hazards	
not relevant		
4.6. Special preca	utions for user	

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

No data available

#### 15.1.2. National regulations

#### [DE] National regulations

#### **Restrictions of occupation**

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

#### Störfallverordnung

#### for substances contained in the product:

E2 Hazardous to the aquatic environment in Category Chronic 2

#### 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 (AltölV)

#### [DK] National regulations

#### Other regulations, restrictions and prohibition regulations

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

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## 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.

## **SECTION 16: Other information**

## \* 16.1. Indication of changes

	5	
1.4.	Emergency telephone number	
4.2.	Most important symptoms and effects, both acute and delayed	
5.1.	Extinguishing media	
6.1.	Personal precautions, protective equipment and emergency procedures	
6.3.	Methods and material for containment and cleaning up	
7.1.	Precautions for safe handling	
8.1.	Control parameters	
8.2.	Exposure controls	
10.5.	Incompatible materials	
10.6.	Hazardous decomposition products	
11.1.	Information on toxicological effects	
12.1.	Toxicity	
12.6.	Other adverse effects	
14.1.	UN number	
14.2.	UN proper shipping name	
14.3.	Transport hazard class(es)	
14.7.	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	
15.2.	Chemical Safety Assessment	
16.1.	Indication of changes	

## 16.2. Abbreviations and acronyms

See overview table at 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)

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# **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 pro cedure
Acute toxicity (oral) (Acute Tox. 4)	H302: Harmful if swallowed.	
Respiratory or skin sensitisation (Skin Sens. 1)	H317: May cause an allergic skin reaction.	
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	

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

Hazard statements		
H226	Flammable liquid and vapour.	
H302	Harmful if swallowed.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H411	Toxic to aquatic life with long lasting effects.	
H413	May cause long lasting harmful effects to aquatic life.	

#### 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