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RAVENOL

Revision date: 2 Jul 2021 Version: 6 Print date: 3 Aug 2021

#### 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 ATF Dexron D II

## Article No.: 1213102

1213102

# **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 Germany

**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 (Company ID: RAV) (outside USA/Canada) 011 49 700 24 112 112 (Company ID: RAV) (inside USA/Canada), +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		Classification pro cedure
Hazardous to the aquatic environment (Aquatic Chronic 3)	H412: Harmful to aquatic life with long lasting effects.	Calculation method.

#### \* 2.2. Label elements

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

Hazard components for labelling:

Reaction product of alkylthioalcohol and substituted phoshorus compound

#### Hazard statements for environmental hazards

H412 Harmful to aquatic life with long lasting effects.

#### Supplemental hazard information: -

**Precautionary statements Prevention** 

P273 Avoid release to the environment.

#### Precautionary statements Disposal

P501

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

## \* 2.3. Other hazards

## Other adverse effects:

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

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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]	Concen- tration
<b>EC No.:</b> 424-820-7 <b>REACH No.:</b> 01-0000017126-75	Reaction product of alkylthioalcohol and substituted phoshorus compoundAcute Tox. 4 (H312), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Skin Corr. 1B (H314)Image: State	0 - < 0.2 weight-%
CAS No.: 1213789-63-9 EC No.: 627-034-4 REACH No.: 01-2119473797-19	C16-18-(even numbered, saturated and unsaturated)- alkylamines Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Asp. Tox. 1 (H304), Eye Dam. 1 (H318), STOT RE 2 (H373), STOT SE 3 (H335), Skin Corr. 1B (H314)	0 - < 0.1 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:**

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 but breathing normally, 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.

#### Following 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 (CO2) 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

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#### Hazardous combustion products:

Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx), 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.

#### 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.

#### **Protective equipment:**

Personal protection equipment: see section 8

#### 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 (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.

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#### 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.

#### 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 (TRGS 510, Germany):** 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

## 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
Reaction product of alkylthioalcohol and substitut ed phoshorus compound EC No.: 424-820-7	1.76 mg/m <sup>3</sup>	<ol> <li>DNEL worker</li> <li>Long-term – inhalation, systemic effects</li> </ol>
Reaction product of alkylthioalcohol and substitut ed phoshorus compound EC No.: 424-820-7	0.5 mg/kg bw/day	<ol> <li>DNEL worker</li> <li>Long-term - dermal, systemic effects</li> </ol>
C16-18-(even numbered, saturated and unsatura ted)-alkylamines CAS No.: 1213789-63-9 EC No.: 627-034-4	0.38 mg/m <sup>3</sup>	<ol> <li>DNEL worker</li> <li>Long-term - inhalation, systemic effects</li> </ol>
C16-18-(even numbered, saturated and unsatura ted)-alkylamines CAS No.: 1213789-63-9 EC No.: 627-034-4	1 mg/m³	<ol> <li>DNEL worker</li> <li>Long-term - inhalation, local effects</li> </ol>
C16-18-(even numbered, saturated and unsatura ted)-alkylamines CAS No.: 1213789-63-9 EC No.: 627-034-4	1 mg/cm <sup>2</sup>	<ol> <li>DNEL worker</li> <li>Acute - inhalation, local effects</li> </ol>
Substance name	PNEC Value	① PNEC type
Reaction product of alkylthioalcohol and substitut ed phoshorus compound EC No.: 424-820-7	0.9 µg/l	① PNEC aquatic, freshwater
Reaction product of alkylthioalcohol and substitut ed phoshorus compound EC No.: 424-820-7	0.09 µg/l	① PNEC aquatic, marine water
Reaction product of alkylthioalcohol and substitut ed phoshorus compound EC No.: 424-820-7	5 mg/l	① PNEC sewage treatment plant
Reaction product of alkylthioalcohol and substitut ed phoshorus compound	0.159 mg/kg bw/day	① PNEC sediment, freshwater
EC No.: 424-820-7		

#### Revision date: 2 Jul 2021 Version: 6 Print date: 3 Aug 2021

Substance name	PNEC Value	① PNEC type
Reaction product of alkylthioalcohol and substitut ed phoshorus compound EC No.: 424-820-7	0.0159 mg/ kg bw/day	① PNEC sediment, marine water
C16-18-(even numbered, saturated and unsatura ted)-alkylamines CAS No.: 1213789-63-9 EC No.: 627-034-4	0.26 µg/l	① PNEC aquatic, freshwater
C16-18-(even numbered, saturated and unsatura ted)-alkylamines CAS No.: 1213789-63-9 EC No.: 627-034-4	0.026 µg/l	① PNEC aquatic, marine water
C16-18-(even numbered, saturated and unsatura ted)-alkylamines CAS No.: 1213789-63-9 EC No.: 627-034-4	3.76 mg/kg	① PNEC sediment, freshwater
C16-18-(even numbered, saturated and unsatura ted)-alkylamines CAS No.: 1213789-63-9 EC No.: 627-034-4	0.376 mg/kg	① PNEC sediment, marine water
C16-18-(even numbered, saturated and unsatura ted)-alkylamines CAS No.: 1213789-63-9 EC No.: 627-034-4	10 mg/kg	① PNEC soil

#### 8.2. Exposure controls

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#### 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. 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: 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.

## **SECTION 9: Physical and chemical properties**

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

#### Appearance

Physical state: Liquid Odour: characteristic Colour: red

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#### Safety relevant basis data

parameter		at °C	Method	Remark
pН	not applicable			
Melting point	not determined			
Freezing point	not determined			
Initial boiling point and boiling range	not determined			
Decomposition temperature	not applicable			
Flash point	208 °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	852 kg/m <sup>3</sup>	15 °C		
Relative density	not applicable			
Bulk density	not applicable			
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 applicable			
Dynamic viscosity	not determined			
Kinematic viscosity	35 mm²/s	40 °C		

## 9.2. Other information

Not applicable.

\*

## **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)

#### **Further information**

No information available.

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## **SECTION 11: Toxicological information**

Substance name	Toxicological information			
Reaction product of alkylthioalcohol and substituted	LD <sub>50</sub> oral:			
phoshorus compound EC No.: 424-820-7	2,000 mg/kg (rat)			
LC NO.: 424-828-7	LD <sub>50</sub> dermal:			
	500 mg/kg (rabbit)			
C16-18-(even numbered, saturated and unsaturated)- alkylamines	LD <sub>50</sub> oral:			
CAS No.: 1213789-63-9	>1,200 mg/kg (Rat) OECD 401			
EC No.: 627-034-4	LD <sub>50</sub> dermal: >2,000 mg/kg (Rat) OECD 402			
	LC <sub>50</sub> Acute inhalation toxicity (dust/mist):			
	>5 mg/l 4 h			
cute oral toxicity:				
Based on available data, the classification criteria	a are not met.			
cute dermal toxicity:				
Based on available data, the classification criteria	a are not met.			
cute inhalation toxicity:				
Based on available data, the classification criteria	a are not met.			
kin corrosion/irritation:				
No irritant effect.				
erious eye damage/irritation: No irritant effect.				
No Irritant effect. Respiratory or skin sensitisation:				
No sensitizing effects known.				
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 exis	st.			
TOT-single exposure: Based on available data, the classification criteria	are not met			
TOT-repeated exposure:				
Based on available data, the classification criteria	a are not met.			
spiration hazard:				
Observe risk of aspiration if vomiting occurs.				
For viscosity data, see section 9.				
dditional information:				
Frequently or prolonged contact with skin may ca	use dermal irritation.			
1.2. Information on other hazards				
ndocrine disrupting properties:				
This product does not contain a substance that has endocrine disrupting properties with respect to				
humans as no components meets the criteria.				
<b>ECTION 12: Ecological information</b>	1			
2.1. Toxicity				
Substance name	Toxicological information			
Reaction product of alkylthioalcohol and substituted	<b>LC<sub>50</sub>:</b> 1.5 mg/l 4 d (fish)			
phoshorus compound	EC <sub>50</sub> : 0.09 mg/l 2 d (crustaceans)			
EC No.: 424-820-7	<b>ECFo:</b> 0.31 mg/l 3d (Algae/water plant)			

EC50: 0.31 mg/l 3 d (Algae/water plant)

EC50: >0.32 mg/l 2 d (crustaceans)

EC50: >0.39 mg/l 3 d (Algae/water plant)

**NOEC:** >0.63 mg/l 4 d (fish)

LC50: >0.84 mg/l 4 d (fish)

alkylamines

CAS No.: 1213789-63-9

EC No.: 627-034-4

C16-18-(even numbered, saturated and unsaturated)-

	Safety Data Sheet according to Regulation (EC) No. 1 RAVENOL ATF Dexron D II	
	Revision date: 2 Jul 2021 Version: 6 Print date: 3 Aug 20	
	Aquatic toxicity: Harmful to aquatic life with long lasting effects. 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 criter	ia)
*	12.3. Bioaccumulative potential	
	Partition coefficient: n-octanol/water: not applicable	
	Accumulation / Evaluation: The product has not been tested.	
	12.4. Mobility in soil	
	The product has not been tested.	
*	12.5. Results of PBT and vPvB assessmer	nt
	Substance name	Results of PBT and vPvB assessment
	Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based CAS No.: 72623-86-0 EC No.: 276-737-9	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
	Reaction product of alkylthioalcohol and substituted phoshorus compound	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

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

This product does not contain a substance that has endocrine disrupting properties with respect to non-

This substance does not meet the PBT/vPvB criteria of

REACH, Annex XIII.

## SECTION 13: Disposal considerations

target organisms as no components meets the criteria.

C16-18-(even numbered, saturated and unsaturated)-

12.6. Endocrine disrupting properties

## 13.1. Waste treatment methods

Dispose of waste according to applicable legislation.

#### Waste treatment options

EC No.: 424-820-7

CAS No.: 1213789-63-9 EC No.: 627-034-4

No data available.

alkylamines

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#### Appropriate disposal / Product:

12.7. Other adverse effects

Dispose of waste according to applicable legislation.

#### Appropriate disposal / Package:

Non-contaminated packages may be recycled.

#### Other disposal recommendations:

Consult the appropriate local waste disposal expert about waste disposal.

#### 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)
14.1. UN number or	ID number		
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.
14.2. UN proper shi	pping 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.
14.3. Transport haz	ard class(es)		
not relevant			
14.4. Packing group	)		
not relevant			_
14.5. Environmenta	l hazards		
not relevant	_		
14.6. Special precau	utions for user		
not relevant			
<b>14.7. Maritime trans</b> Not applicable.	sport in bulk accord	ing to IMO instrumen	ts
SECTION 15: Regu	ulatory informatio	on	
15.1. Safety. health	and environmental	regulations/legislatio	on specific for the
substance or mixtur			
15.1.1. EU legislation	n		
Other regulations (EU):	:		
III-Directive], Hazard cate	the control of major-acci egories: quatic Environment in Ca	dent hazards involving dang tegory Acute 1 or Chronic 1	jerous substances [Seveso
Directive 2012/18/EU on III-Directive], Hazard cate • E1 Hazardous to the Ad	the control of major-acci egories: quatic Environment in Ca ble on request.		gerous substances [Seveso
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Directive 2012/18/EU on III-Directive], Hazard cata • E1 Hazardous to the Ad Safety data sheet availal <b>15.1.2. National regu</b> [DE] National regu Störfallverordnung for substances contain Hazard categories: • E1 Hazardous to the Ad Technische Anleitung Remark: To follow: 5.2.5 Water hazard class WGK: 2 - deutlich wassergefäh Source: Self-classification (mixtu Identification number 43 Technische Regeln fü TRGS 510 TRGS 500 Berufsgenossenschaftlict	the control of major-acci egories: quatic Environment in Ca ble on request. ulations gulations ed in the product: quatic Environment in Ca g Luft (TA-Luft) urdend re; calculation rule). 6 ir Gefahrstoffe	tegory Acute 1 or Chronic 1 tegory Acute 1 or Chronic 1 <b>(DGUV-Vorschriften)</b> Informationen) 868	jerous substances [Seveso
Directive 2012/18/EU on III-Directive], Hazard cata • E1 Hazardous to the Ad Safety data sheet availal <b>15.1.2. National regu</b> [DE] National regu Störfallverordnung for substances contain Hazard categories: • E1 Hazardous to the Ad Technische Anleitung Remark: To follow: 5.2.5 Water hazard class WGK: 2 - deutlich wassergefäh Source: Self-classification (mixtu Identification number 43 Technische Regeln fü TRGS 510 TRGS 500 Berufsgenossenschaftlict	the control of major-acci egories: quatic Environment in Ca ble on request. ulations gulations ed in the product: quatic Environment in Ca g Luft (TA-Luft) urdend re; calculation rule). 6 ir Gefahrstoffe ftliche Vorschriften he Informationen (DGUV- he Regeln (DGUV-Regeln) estrictions and prohi	tegory Acute 1 or Chronic 1 tegory Acute 1 or Chronic 1 ( <b>DGUV-Vorschriften)</b> Informationen) 868 ) 189, 190, 192, 195	jerous substances [Seveso

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## [DK] National regulations

#### Other regulations, restrictions and prohibition regulations

Dänemark: Bekendtgørelse af lov om arbejdsmiljø: Beskæftigelsesministeriets lovbekendtgørelse nr. 1072 af 7. september 2010

Lister over stoffer og processer, der anses for at væere kraeftfremkaldende

#### [FR] National regulations

#### Other regulations, restrictions and prohibition regulations

Frankreich: Tableaux de maladies professionelles Nomenclature des installations classées pour la protection de l'environnement Articles L. 4523-1 à L. 4523-17, L. 4611-1 à L. 4614-16, R. 4523-1 à R. 4523-17 et R. 4612-1 à R. 4615-21 du Code du travail

## [NL] National regulations

#### Other regulations, restrictions and prohibition regulations

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

NET-Limitatieve liist an voor de voortplanting giftige stoffen - Borstvoeding

NIET-Limitatieve lijst an voor de voortplanting giftige stoffen - Vruchtbaarheid

NIET-Limitatieve lijst an voor de voortplanting giftige stoffen - Ontwikkeling

SZW-lijst van kankerverwekkende stoffen

SZW-lijst van mutagene stoffen

Wet van 18 maart 1999, houdende bepalingen ter verbetering van de arbeidsomstandigheden (Arbeidsomstandighedenwet) Wet en de ondernemingeraden 1971

Wet op de ondernemingsraden 1971

## [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.

#### 15.3. Additional information

No data available.

## **SECTION 16: Other information**

## \* 16.1. Indication of changes

2.1.	Classification of the substance or mixture
2.2.	Label elements
2.3.	Other hazards
3.2.	Mixtures
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
8.3.	Additional information
9.1.	Information on basic physical and chemical properties
9.2.	Other information
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
11.2.	Information on other hazards
12.1.	Toxicity
12.2.	Persistence and degradability
12.3.	Bioaccumulative potential
12.5.	Results of PBT and vPvB assessment
12.6.	Endocrine disrupting properties

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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
16.1. Indication of changes
16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]
16.5. Relevant R-, H- and EUH-phrases (Number and full text)

## 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)

# \* 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		Classification pro cedure
Hazardous to the aquatic environment (Aquatic Chronic 3)	H412: Harmful to aquatic life with long lasting effects.	Calculation method.

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

Hazard state	Hazard statements		
H302	Harmful if swallowed.		
H304	May be fatal if swallowed and enters airways.		
H312	Harmful in contact with skin.		
H314	Causes severe skin burns and eye damage.		
H318	Causes serious eye damage.		
H335	May cause respiratory irritation.		
H373	May cause damage to organs through prolonged or repeated exposure. ()		
H400	Very toxic to aquatic life.		
H410	Very toxic to aquatic life with long lasting effects.		

#### 16.6. Training advice

No data available

## 16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

\* Data changed compared with the previous version