Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) RAVENOL MTF-3 SAE 75W Page 1/12

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Revision date: 15 Oct 2021 Version: 5 Print date: 18 Oct 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 MTF-3 SAE 75W

#### Article No.: 1221104

# **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

Produktsicherheit 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): sdb@ravenol.de

## \* 1.4. Emergency telephone number

24 hr. emergency phone number, 24h: +49 700 24 112 112 (Contract ID: RAV) / +1 872 5888271 (Contract ID: RAV)

## **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		
EUH208 Contains 4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate. May produce an allerg reaction.		
Precautionary statements Prevention		

## P273 Avoid release to the environment.

## **Precautionary statements Disposal**

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

## \* 2.3. Other hazards

## Other adverse effects:

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

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## **SECTION 3: Composition / information on ingredients**

## 3.2. Mixtures

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

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concen- tration
CAS No.: 64742-54-7 EC No.: 265-157-1 REACH No.: 01-2119484627-25	Distillates (petroleum), hydrotreated heavy paraffinic; Base oil - not specified Asp. Tox. 1 (H304) Danger	40 - < 70 weight-%
CAS No.: 68649-11-6 EC No.: 500-228-5	Dec-1-ene, dimers, hydrogenated Acute Tox. 4 (H332), Asp. Tox. 1 (H304)	5 - < 10 weight-%
EC No.: 701-204-9 REACH No.: 01-2119960832-33	Reaction products of fatty acids, C14-C18 (branched and linear) and C18 (unsaturated) with tetraethylenepentamine (linear, branched, cyclic) Eye Irrit. 2 (H319), Skin Irrit. 2 (H315)	1 - < 2 weight-%
EC No.: 424-820-7 REACH No.: 01-0000017126-75	Reaction product of alkylthioalcohol and substituted phoshorus compound         Acute Tox. 4 (H312), Aquatic Acute 1 (H400),         Aquatic Chronic 1 (H410), Skin Corr. 1B (H314)	0 - < 0.5 weight-%
CAS No.: 93882-40-7 EC No.: 299-434-3 REACH No.: 01-2120735527-50	<b>4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate</b> Aquatic Chronic 2 (H411), Eye Irrit. 2 (H319), Skin Sens. 1 (H317) <b>Warning</b>	0 – < 0.25 weight-%

## **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 eve 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

Contains 4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate. May produce an allergic reaction.

## **4.3. Indication of any immediate medical attention and special treatment needed** Treat symptomatically. Observe risk of aspiration if vomiting occurs.

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## **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

## 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:**

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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.

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## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

## Protective measures

#### Advices on safe handling:

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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.

#### 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

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>
TRGS 900 (DE)	Dec-1-ene, dimers, hydrogen ated CAS No.: 68649-11-6 EC No.: 500-228-5	<ol> <li>5 mg/m<sup>3</sup></li> <li>20 mg/m<sup>3</sup></li> <li>(alveolengängige Fraktion)</li> </ol>
SI	Dec-1-ene, dimers, hydrogen ated CAS No.: 68649-11-6 EC No.: 500-228-5	<ol> <li>5 mg/m<sup>3</sup></li> <li>20 mg/m<sup>3</sup></li> <li>(alveolarna frakcija)</li> </ol>

## 8.1.2. Biological limit values

No data available

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## 8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type
		② Exposure route
Reaction products of fatty acids, C14-C18 (branc hed and linear) and C18 (unsaturated) with tetra ethylenepentamine (linear, branched, cyclic) EC No.: 701-204-9	11.75 mg/ cm <sup>2</sup>	<ol> <li>DNEL worker</li> <li>Long-term - inhalation, systemic effects</li> </ol>
Reaction products of fatty acids, C14-C18 (branc hed and linear) and C18 (unsaturated) with tetra ethylenepentamine (linear, branched, cyclic) EC No.: 701-204-9	3.33 mg/kg bw/day	<ol> <li>DNEL worker</li> <li>Long-term - dermal, systemic effects</li> </ol>
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>
4,4'-thiodiethylene hydrogen -2-octadecenylsucc inate CAS No.: 93882-40-7 EC No.: 299-434-3	3.526 mg/m <sup>3</sup>	<ol> <li>DNEL worker</li> <li>Long-term - inhalation, systemic effects</li> </ol>
4,4'-thiodiethylene hydrogen -2-octadecenylsucc inate CAS No.: 93882-40-7 EC No.: 299-434-3	2 mg/kg bw/ day	<ol> <li>DNEL worker</li> <li>Long-term - dermal, systemic effects</li> </ol>
Substance name	PNEC Value	① PNEC type
Reaction products of fatty acids, C14-C18 (branc hed and linear) and C18 (unsaturated) with tetra ethylenepentamine (linear, branched, cyclic) EC No.: 701-204-9	460 μg/l	① PNEC aquatic, freshwater
Reaction products of fatty acids, C14-C18 (branc hed and linear) and C18 (unsaturated) with tetra ethylenepentamine (linear, branched, cyclic) EC No.: 701-204-9	46 μg/l	① PNEC aquatic, marine water
Reaction products of fatty acids, C14-C18 (branc hed and linear) and C18 (unsaturated) with tetra ethylenepentamine (linear, branched, cyclic) EC No.: 701-204-9	1,000 mg/l	① PNEC sewage treatment plant
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 EC No.: 424-820-7	0.159 mg/kg bw/day	① PNEC sediment, freshwater
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
4,4'-thiodiethylene hydrogen -2-octadecenylsucc inate CAS No.: 93882-40-7 EC No.: 299-434-3	9.5 μg/l	① PNEC aquatic, freshwater
4,4'-thiodiethylene hydrogen -2-octadecenylsucc inate CAS No.: 93882-40-7 EC No.: 299-434-3	0.95 μg/l	① PNEC aquatic, marine water
4,4'-thiodiethylene hydrogen -2-octadecenylsucc inate CAS No.: 93882-40-7 EC No.: 299-434-3	100 mg/l	① PNEC sewage treatment plant

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Substance name	PNEC Value	① PNEC type			
4,4'-thiodiethylene hydrogen -2-octadecenylsucc inate	95 μg/l	① PNEC aquatic, intermittent release			
CAS No.: 93882-40-7					
EC No.: 299-434-3					

## \* 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. 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

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

## Colour: tawny

Safety relevant basis data

parameter		at °C	Method	Remark
рН	not applicable			
Melting point	not determined			
Freezing point	not determined			
Initial boiling point and boiling range	not determined			
Decomposition temperature	not determined			
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	841 kg/m <sup>3</sup>	15 °C		
Relative density	not applicable			
Bulk density	not applicable			

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parameter		at °C	Method	Remark
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)

## **SECTION 11: Toxicological information**

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Substance name	Toxicological information
Distillates (petroleum), hydrotreated heavy paraffinic; Base oil - not specified CAS No.: 64742-54-7 EC No.: 265-157-1	LD <sub>50</sub> oral: 5,000 mg/kg (Rat) OECD 401 LD <sub>50</sub> dermal: 5,000 mg/kg (Rabbit) OECD 402 LC <sub>50</sub> Acute inhalation toxicity (dust/mist): 5.53 mg/l 4 h (Rat) OECD 403
Reaction products of fatty acids, C14-C18 (branched and linear) and C18 (unsaturated) with tetraethylenepentamine (linear, branched, cyclic) EC No.: 701-204-9	LD <sub>50</sub> oral: 5,000 mg/kg (Rat) LD <sub>50</sub> dermal: 2,000 mg/kg (Rabbit)
Reaction product of alkylthioalcohol and substituted phoshorus compound EC No.: 424-820-7	LD <sub>50</sub> oral: 2,000 mg/kg (rat) LD <sub>50</sub> dermal: 500 mg/kg (rabbit)
4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate CAS No.: 93882-40-7 EC No.: 299-434-3	LD <sub>50</sub> oral: 10,000 mg/kg (rat) LD <sub>50</sub> dermal: 3,160 mg/kg (rabbit)

#### 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.

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Skin corrosion/irritation: No irritant effect.	
Serious eye damage/irritation: No irritant effect.	
<b>Respiratory or skin sensitisation:</b> Contains 4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate. May produce	an allergic reaction.
Germ cell mutagenicity: No indications of human germ cell mutagenicity exist.	
Carcinogenicity: No indication of human carcinogenicity.	
<b>Reproductive toxicity:</b> No indications of human reproductive toxicity exist.	
STOT-single exposure: Based on available data, the classification criteria are not met.	
<b>STOT-repeated exposure:</b> Based on available data, the classification criteria are not met.	
Aspiration hazard: Observe risk of aspiration if vomiting occurs. For viscosity data, see section 9.	
Additional information: Frequently or prolonged contact with skin may cause dermal irritation.	
11.2. Information on other hazards	
<b>Endocrine disrupting properties:</b> This product does not contain a substance that has endocrine disrupting prop humans as no components meets the criteria.	perties with respect to

# **SECTION 12: Ecological information**

## \* 12.1. Toxicity

Substance name	Toxicological information	
Distillates (petroleum), hydrotreated heavy paraffinic;	<b>LC<sub>50</sub>:</b> 100 mg/l 4 d (fish)	
Base oil - not specified CAS No.: 64742-54-7	<b>NOEC:</b> 100 mg/l 4 d (fish)	
EC No.: 265-157-1	EC <sub>50</sub> : 10,000 mg/l 2 d (crustaceans)	
	LC <sub>50</sub> : 10,000 mg/l 4 d (crustaceans)	
	NOEC: 100 mg/l 3 d (Algae/water plant)	
	NOEC: ≥100 mg/l 3 d (Algae/water plant, Algen)	
Reaction products of fatty acids, C14-C18	<b>LC<sub>50</sub>:</b> 1,000 mg/l 4 d (fish)	
(branched and linear) and C18 (unsaturated) with tetraethylenepentamine (linear, branched, cyclic)	EC <sub>50</sub> : 1,000 mg/l 2 d (crustaceans)	
EC No.: 701-204-9	NOEC: 32 mg/l 21 d (crustaceans)	
Reaction product of alkylthioalcohol and substituted	<b>LC<sub>50</sub>:</b> 1.5 mg/l 4 d (fish)	
phoshorus compound EC No.: 424-820-7	EC <sub>50</sub> : 0.09 mg/l 2 d (crustaceans)	
	EC <sub>50</sub> : 0.31 mg/l 3 d (Algae/water plant)	
4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate	<b>LC<sub>50</sub>:</b> 100 mg/l 4 d (fish)	
CAS No.: 93882-40-7 EC No.: 299-434-3	EC <sub>50</sub> : 9.5 mg/l 2 d (crustaceans)	
EC NO.: 299-454-5	NOEC: 100 mg/l 3 d (Algae/water plant)	

## 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 criteria)

\* 12.3. Bioaccumulative potential Partition coefficient: n-octanol/water: not applicable

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Accumulation / Evaluation: The product has not been tested.	
<b>12.4. Mobility in soil</b> The product has not been tested.	
12.5. Results of PBT and vPvB assessme	nt
Substance name	Results of PBT and vPvB assessment
Distillates (petroleum), hydrotreated heavy paraffinic; Base oil - not specified CAS No.: 64742-54-7 EC No.: 265-157-1	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
Dec-1-ene, dimers, hydrogenated CAS No.: 68649-11-6 EC No.: 500-228-5	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
Reaction products of fatty acids, C14-C18 (branched and linear) and C18 (unsaturated) with tetraethylenepentamine (linear, branched, cyclic) EC No.: 701-204-9	
Reaction product of alkylthioalcohol and substituted phoshorus compound EC No.: 424-820-7	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate CAS No.: 93882-40-7 EC No.: 299-434-3	_
This substance does not meet the PBT/vPvB criteria	a of REACH, Annex XIII.
<b>12.6. Endocrine disrupting properties</b> This product does not contain a substance that has target organisms as no components meets the crit	s endocrine disrupting properties with respect to non- eria.
12.7. Other adverse effects No data 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.

## 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.						
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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RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO- TI / IATA-DGR)
14.3. Transport haz	ard class(es)		
not relevant			
14.4. Packing group	0		
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.
14.5. Environmenta	hazards		
not relevant			
14.6. Special preca	utions for user		
not relevant			
Not applicable.	-	ding to IMO instrumen	ts
SECTION 15: Reg	ulatory information	on	
		l regulations/legislations/legislation	on specific for the
substance or mixtu 15.1.1. EU legislatio			
III-Directive], Hazard cat	n the control of major-acc egories: quatic Environment in Ca ble on request.	ident hazards involving dan	-
[DE] National reg			
Störfallverordnung	gulacions		
for substances contain This product is not assig for substances possibl Hazard categories:	ned to a hazard category y developing during a		
Technische Anleitun		accessive accession container	
Remark: To follow: 5.2.5	<b>y</b> (,		
Water hazard class			
WGK: 2 - deutlich wassergefäh	ordend		
Source:	nacha		
Self-classification (mixtu Identification number 43			
Technische Regeln f	ür Gefahrstoffe		
TRGS 510			
TRGS 510 TRGS 500 Berufsgenossenscha Berufsgenossenschaftlic	aftliche Vorschriften he Informationen (DGUV he Regeln (DGUV-Regeln		

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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)

NIET-Limitatieve lijst 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

16.1 Indication of changes

No data available.

## **SECTION 16: Other information**

TO.T.	indication of changes
1.3.	Details of the supplier of the safety data sheet
1.4.	Emergency telephone number
2.1.	Classification of the substance or mixture
2.2.	Label elements
2.3.	Other hazards
3.2.	Mixtures
4.1.	Description of first aid measures
4.2.	Most important symptoms and effects, both acute and delayed
6.1.	Personal precautions, protective equipment and emergency procedures
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

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- 12.5. Results of PBT and vPvB assessment
- 12.6. Endocrine disrupting properties
- 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 ( <i>Aquatic Chronic 3</i> )	H412: Harmful to aquatic life with long lasting effects.	Calculation method.

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

Hazard statements		
H304	May be fatal if swallowed and enters airways.	
H312	Harmful in contact with skin.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
H411	Toxic to aquatic life with long lasting effects.	

# 16.6. Training advice

No data available

## 16.7. Additional information

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