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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 ATF 8HP Fluid

# Article No.:

1211124

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

# \* 2.2. Label elements

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

Mixture of: triphenylthio-phosphate and tertiary butylated phenyl derivatives; Reaction product of alkylthioalcohol and substituted phoshorus compound; Dec-1-ene, dimers, hydrogenated

Upper und attate use	uta fan anuinan	waa a wata la ka waxa wala
Hazard stateme	nts for environ	imental nazaros

H412	Harmful to aquatic life with long lasting effects.

# Supplemental hazard information

EUH208 Contains 2,5-bis(octyldithio)-1,3,4-thiadiazole. May produce an allergic 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

No data available

P501

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

# 3.2. Mixtures

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# Hazardous ingredients / Hazardous impurities / Stabilisers:

Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concen- tration
Dec-1-ene, dimers, hydrogenated Acute Tox. 4, Asp. Tox. 1 H304	4 - < 10 Wt %
<b>bis(nonylphenyl)amine</b> Aquatic Chronic 4 H413	0 - < 2 Wt %
Isomer mixture of C7-9-alkyl-3- (3,5-di-trans-butyl-4- hydroxyphenyl) propionate Aquatic Chronic 4 H413	0 - < 2 Wt %
Mixture of: triphenylthio-phosphate and tertiary butylated phenyl derivatives Aquatic Chronic 4, Repr. 2 H361d-H413	0 - < 1 Wt %
Reaction product of alkylthioalcohol and substituted phoshorus compoundAcute Tox. 4, Aquatic Acute 1, Aquatic Chronic 1, Skin Corr. 1BImage: State of the stat	0 - < 0.5 Wt %
	Classification according to Regulation (EC) No 1272/2008 [CLP]Dec-1-ene, dimers, hydrogenated Acute Tox. 4, Asp. Tox. 1 H304bis(nonylphenyl)amine Aquatic Chronic 4 H413Isomer mixture of C7-9-alkyl-3- (3,5-di-trans-butyl-4- hydroxyphenyl) propionate Aquatic Chronic 4 H413Mixture of: triphenylthio-phosphate and tertiary butylated phenyl derivatives Aquatic Chronic 4, Repr. 2 H361d-H413Reaction product of alkylthioalcohol and substituted phoshorus compound Acute Tox. 4, Aquatic Acute 1, Aquatic Chronic 1, Skin Corr. 1B

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 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.

## 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** Contains 2,5-bis(octyldithio)-1,3,4-thiadiazole. 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.

# **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.

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#### 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:**

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.



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#### 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: 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	<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	<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

# 8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	<ol> <li>DNEL type</li> </ol>
		② Exposure route
Distillates (petroleum), hydrotreated heavy para ffinic CAS No.: 64742-54-7	2.73 mg/m <sup>3</sup>	<ol> <li>DNEL worker</li> <li>inhalative, long-term, systemic</li> </ol>
Distillates (petroleum), hydrotreated heavy para ffinic CAS No.: 64742-54-7	5.58 mg/m <sup>3</sup>	<ol> <li>DNEL worker</li> <li>inhalative, long-term, local</li> </ol>
Distillates (petroleum), hydrotreated heavy para ffinic CAS No.: 64742-54-7	0.97 mg/kg bw/day	<ol> <li>DNEL worker</li> <li>dermal, long-term, systemic</li> </ol>
Dec-1-ene, dimers, hydrogenated CAS No.: 68649-11-6	60 mg/m <sup>3</sup>	<ol> <li>DNEL worker</li> <li>inhalative, short-term, systemic, (acute)</li> </ol>
bis(nonylphenyl)amine CAS No.: 36878-20-3	5 mg/kg bw/ day	<ol> <li>DNEL worker</li> <li>dermal, long-term, systemic</li> </ol>

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Substance name	DNEL value	① DNEL type	
		② Exposure route	
somer mixture of C7-9-alkyl-3- (3,5-di-trans- butyl-4-hydroxyphenyl) propionate CAS No.: 125643-61-0	2.33 mg/m <sup>3</sup>	<ol> <li>DNEL worker</li> <li>inhalative, long-term, systemic</li> </ol>	
Mixture of: triphenylthio-phosphate and tertiary butylated phenyl derivatives CAS No.: 192268-65-8	1.2 mg/m <sup>3</sup>	<ol> <li>DNEL worker</li> <li>inhalative, long-term, systemic</li> </ol>	
Reaction product of alkylthioalcohol and substitut ed phoshorus compound	1.76 mg/m <sup>3</sup>	<ol> <li>DNEL worker</li> <li>inhalative, long-term, systemic</li> </ol>	
Reaction product of alkylthioalcohol and substitut ed phoshorus compound	0.5 mg/kg bw/day	<ol> <li>DNEL worker</li> <li>dermal, long-term, systemic</li> </ol>	
Lubricating oils (petroleum), C15-30, hydrotreate d neutral oil-based CAS No.: 72623-86-0	2.73 mg/m <sup>3</sup>	<ol> <li>DNEL worker</li> <li>inhalative, long-term, systemic</li> </ol>	
ubricating oils (petroleum), C15-30, hydrotreate d neutral oil-based CAS No.: 72623-86-0	5.58	<ol> <li>DNEL worker</li> <li>inhalative, long-term, local</li> </ol>	
ubricating oils (petroleum), C15-30, hydrotreate d neutral oil-based CAS No.: 72623-86-0	0.97 mg/kg	<ol> <li>DNEL worker</li> <li>dermal, long-term, systemic</li> </ol>	
4,4'-thiodiethylene hydrogen -2-octadecenylsucc nate CAS No.: 93882-40-7	3.526 mg/m <sup>3</sup>	<ol> <li>DNEL worker</li> <li>inhalative, long-term, systemic</li> </ol>	
4,4'-thiodiethylene hydrogen -2-octadecenylsucc nate CAS No.: 93882-40-7	2 mg/kg bw/ day	<ol> <li>DNEL worker</li> <li>dermal, long-term, systemic</li> </ol>	
Reaction products of fatty acids, C14-C18 (branc ned and linear) and C18 (unsaturated) with tetra ethylenepentamine (linear, branched, cyclic)	11.75 mg/ cm²	<ol> <li>DNEL worker</li> <li>inhalative, long-term, systemic</li> </ol>	
Reaction products of fatty acids, C14-C18 (branc hed and linear) and C18 (unsaturated) with tetra ethylenepentamine (linear, branched, cyclic)	3.33 mg/kg bw/day	<ol> <li>DNEL worker</li> <li>dermal, long-term, systemic</li> </ol>	
thiophenes CAS No.: 398141-87-2	24.7 mg/m <sup>3</sup>	<ol> <li>DNEL worker</li> <li>inhalative, long-term, systemic</li> </ol>	
thiophenes CAS No.: 398141-87-2	350 mg/kg bw/day	<ol> <li>DNEL worker</li> <li>dermal, long-term, systemic</li> </ol>	
Substance name	PNEC Value	I PNEC type	
Distillates (petroleum), hydrotreated heavy para finic CAS No.: 64742-54-7	9.33 mg/kg bw/day	① PNEC secondary poisoning	
bis(nonylphenyl)amine CAS No.: 36878-20-3	412 μg/l	① PNEC aquatic, freshwater	
bis(nonylphenyl)amine CAS No.: 36878-20-3 bis(nonylphenyl)amine	41.2 μg/l 1 mg/l	PNEC aquatic, marine water     DNEC aquatic, intermittent release	
CAS No.: 36878-20-3 Reaction product of alkylthioalcohol and substitut	1 mg/i 0.9 μg/l	<ol> <li>PNEC aquatic, intermittent release</li> <li>PNEC aquatic, freshwater</li> </ol>	
ed phoshorus compound Reaction product of alkylthioalcohol and substitut	0.09 μg/l	PNEC aquatic, marine water	
ed phoshorus compound Reaction product of alkylthioalcohol and substitut	5 mg/l	PNEC sewage treatment plant	
ed phoshorus compound Reaction product of alkylthioalcohol and substitut ed phoshorus compound	0.159 mg/kg bw/day	① PNEC sediment, freshwater	
Reaction product of alkylthioalcohol and substitut ed phoshorus compound	0.0159 mg/ kg bw/day	① PNEC sediment, marine water	
Lubricating oils (petroleum), C15-30, hydrotreate d neutral oil-based CAS No.: 72623-86-0	9.99 mg/kg	① PNEC secondary poisoning	

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Substance name	PNEC Value	① PNEC type
4,4'-thiodiethylene hydrogen -2-octadecenylsucc inate CAS No.: 93882-40-7	9.5 μg/l	PNEC aquatic, freshwater
4,4'-thiodiethylene hydrogen -2-octadecenylsucc inate CAS No.: 93882-40-7	0.95 μg/l	① PNEC aquatic, marine water
4,4'-thiodiethylene hydrogen -2-octadecenylsucc inate CAS No.: 93882-40-7	100 mg/l	① PNEC sewage treatment plant
4,4'-thiodiethylene hydrogen -2-octadecenylsucc inate CAS No.: 93882-40-7	95 μg/l	① PNEC aquatic, intermittent release
Reaction products of fatty acids, C14-C18 (branc hed and linear) and C18 (unsaturated) with tetra ethylenepentamine (linear, branched, cyclic)	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)	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)	1,000 mg/l	① PNEC sewage treatment plant
thiophenes CAS No.: 398141-87-2	2.4 µg/l	① PNEC aquatic, freshwater
thiophenes CAS No.: 398141-87-2	0.33 μg/l	① PNEC aquatic, marine water
thiophenes CAS No.: 398141-87-2	100 mg/l	① PNEC sewage treatment plant
thiophenes CAS No.: 398141-87-2	0.433 mg/kg	① PNEC sediment, freshwater
thiophenes CAS No.: 398141-87-2	0.0596 mg/ kg	① PNEC soil, marine water

## 8.2. Exposure controls

\*

# 8.2.1. Appropriate engineering controls

See section 7. No additional measures necessary.

# 8.2.2. Personal protection equipment



## Eye/face protection:

During transfer: Eye glasses with side protection 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.

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.3. Additional informati	ion				
Mineral oil mist limits:					
OSHA PEL - value 5 mg / m³, A	CGIH STEL - value	of 10 m	g / m³		
ECTION 9: Physical a	nd chemical	prope	erties		
.1. Information on basi				tion	
ppearance Physical state: Liquid Odour: characteristic			lour: green		
afety relevant basis dat	a	at °C	Method	Remark	
Н	not determined				
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	837 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	25.5 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)

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# **SECTION 11: Toxicological information**

11.1. Information on	toxicological effects
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CAS No.	Substance name	Toxicological information
64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic		LC <sub>50</sub> Acute inhalation toxicity (dust/mist): >5 mg/l 4 h (Rat) LD <sub>50</sub> dermal: >2,000 mg/kg (Rabbit) LD <sub>50</sub> oral: >5,000 mg/kg (Ratte)
68649-11-6	Dec-1-ene, dimers, hydrogenated	LD <sub>50</sub> oral: >2,000 - <5,000 mg/kg (Rat) LC <sub>50</sub> Acute inhalation toxicity (gas): >900 - <5,200 ppmV 4 h (Rat) LD <sub>50</sub> dermal: <2,000 mg/kg (Rat)
36878-20-3	bis(nonylphenyl)amine	LD <sub>50</sub> oral: 5,000 g/m <sup>3</sup> (Rat) LD <sub>50</sub> dermal: >2,000 g/m <sup>3</sup> (Rabbit)
125643-61-0	lsomer mixture of C7-9-alkyl-3- (3,5-di-trans- butyl-4-hydroxyphenyl) propionate	LD <sub>50</sub> dermal: >2,000 mg/kg (Ratte) LD <sub>50</sub> oral: >2,000 mg/kg (Ratte)
	Reaction product of alkylthioalcohol and substituted phoshorus compound	LD <sub>50</sub> oral: 2,000 mg/kg (rat) LD <sub>50</sub> dermal: 500 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.

#### 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:

Contains 2,5-bis(octyldithio)-1,3,4-thiadiazole. May produce an allergic reaction.

# 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.

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# **SECTION 12: Ecological information**

# 12.1. Toxicity

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CAS No.	Substance name	Toxicological information
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic	<b>NOEC:</b> ≥100 mg/l 3 d (Algae/water plant, Algen)
36878-20-3	bis(nonylphenyl)amine	LC <sub>50</sub> : >100 mg/l 4 d (fish)
		EC <sub>50</sub> : >100 mg/l 2 d (crustaceans)
		EC <sub>50</sub> : 600 mg/l 3 d (Algae/water plant)
125643-61-0		NOEC: >3 mg/l 3 d (Algae/water plant, Alge)
	butyl-4-hydroxyphenyl) propionate	<b>EC<sub>50</sub>:</b> >100 mg/l 2 d (crustaceans, Daphnie)
	Reaction product of alkylthioalcohol and	<b>LC<sub>50</sub>:</b> 1.5 mg/l 4 d (fish)
	substituted phoshorus compound	EC <sub>50</sub> : 0.09 mg/l 2 d (crustaceans)
		EC <sub>50</sub> : 0.31 mg/l 3 d (Algae/water plant)

## Aquatic toxicity:

The product has not been tested.

# 12.2. Persistence and degradability

CAS No.	Substance name	Biodegradation	Remark
68649-11-6	Dec-1-ene, dimers, hydrogenated	Yes, rapidly	
36878-20-3	bis(nonylphenyl)amine	—	

#### **Biodegradation:**

Poorly biodegradable.

## \* 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

The product has not been tested.

# \* 12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
68649-11-6	Dec-1-ene, dimers, hydrogenated	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
36878-20-3	bis(nonylphenyl)amine	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
125643-61-0	lsomer mixture of C7-9-alkyl-3- (3,5-di-trans- butyl-4-hydroxyphenyl) propionate	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
192268-65-8	Mixture of: triphenylthio-phosphate and tertiary butylated phenyl derivatives	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
	Reaction product of alkylthioalcohol and substituted phoshorus compound	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

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.

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	Appropriate disposal /					
ĸ	Non-contaminated packages may be recycled. <b>13.2. Additional information</b> The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. <b>SECTION 14: Transport information</b>					
	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-No.					
	No dangerous good in sense of these	No dangerous good in sense of these	No dangerous good in sense of these	No dangerous good in sense of these		
	transport regulations.	transport regulations.	transport regulations.	transport regulations.		
	14.2. UN proper shi	pping name No dangerous good in sense of	No dangerous good in sense of	No dangerous good in conso of		
	these transport regulations.	these transport regulations.	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 preca	utions for user		-		
	not relevant					
	14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC No transport as bulk according to IBC Code.		8 and the IBC Code			
	SECTION 15: Regu	ulatory informatio	n			
	15.1. Safety, health and environmental regulations/legislation specific for the					
	15.1. Safety, health	and environmental	regulations/legislatio	n specific for the		
	15.1. Safety, health substance or mixtu		regulations/legislatio	n specific for the		
	substance or mixtur 15.1.1. EU legislation	re n	regulations/legislatio	n specific for the		
	substance or mixtur 15.1.1. EU legislation Other regulations (EU) Directive 2012/18/EU on	re n : n the control of major-accio ct is not assigned to a haz	dent hazards involving dang	-		
	substance or mixtur 15.1.1. EU legislation Other regulations (EU) Directive 2012/18/EU on III-Directive]: This produc	re n the control of major-accion ct is not assigned to a haz able on request.	dent hazards involving dang	-		
	substance or mixtur 15.1.1. EU legislation Other regulations (EU) Directive 2012/18/EU on III-Directive]: This produc Safety data sheet availa	re n i: in the control of major-accio ct is not assigned to a haz ible on request. ulations	dent hazards involving dang	-		
	substance or mixtur 15.1.1. EU legislation Other regulations (EU) Directive 2012/18/EU on III-Directive]: This produc Safety data sheet availa 15.1.2. National regu [DE] National regu Störfallverordnung for substances contain	re n :: n the control of major-accion ct is not assigned to a haz able on request. ulations gulations med in the product:	dent hazards involving dang zard category.	-		
	substance or mixtur 15.1.1. EU legislation Other regulations (EU) Directive 2012/18/EU on III-Directive]: This product Safety data sheet availa 15.1.2. National regu [DE] National regu Störfallverordnung for substances contain This product is not assig	re n : o the control of major-accion ct is not assigned to a haz ible on request. ulations gulations gulations ed in the product: aned to a hazard category.	dent hazards involving dang zard category.	-		
	substance or mixtur 15.1.1. EU legislation Other regulations (EU) Directive 2012/18/EU on III-Directive]: This produc Safety data sheet availa 15.1.2. National regu [DE] National regu [DE] National regu Störfallverordnung for substances contain This product is not assig Technische Anleitung Remark:	re n : o the control of major-accion ct is not assigned to a haz ible on request. ulations gulations gulations ed in the product: aned to a hazard category.	dent hazards involving dang zard category.	-		
	substance or mixtur 15.1.1. EU legislation Other regulations (EU) Directive 2012/18/EU on III-Directive]: This produc Safety data sheet availa 15.1.2. National regu [DE] National regu [DE] National regu for substances contain This product is not assig Technische Anleitung Remark: To follow: 5.2.5. Water hazard class (	re n : the control of major-accion ct is not assigned to a haz able on request. ulations gulations eed in the product: and to a hazard category. g Luft (TA-Luft)	dent hazards involving dang zard category.	-		
	substance or mixtur 15.1.1. EU legislation Other regulations (EU) Directive 2012/18/EU on III-Directive]: This product Safety data sheet availa 15.1.2. National regular [DE] National regular Störfallverordnung for substances contain This product is not assign Technische Anleitung Remark: To follow: 5.2.5.	re n :: a the control of major-accid ct is not assigned to a haz ible on request. ulations gulations eed in the product: ned to a hazard category. g Luft (TA-Luft)	dent hazards involving dang zard category.	-		

	Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)	Page 11/12
RAVEN	OL ATF 8HP Fluid	RAVENOL
Revisio	n date: 10 Mar 2020 Version: 3 Print date: 10 Mar 2020	RAVEITOL
TRGS	<b>ische Regeln für Gefahrstoffe</b> 510 um standard for preventive measures while handling with working materials are	e specified in the
TRGS	500.	
Berufs	<b>sgenossenschaftliche Vorschriften (BGV)</b> sgenossenschaftliche Informationen (BGI) 868 sgenossenschaftliche Regeln (BGR) 189, 190, 192, 195	
	regulations, restrictions and prohibition regulations /erordnung (AltölV)	
	0K] National regulations	
<b>Other</b> Lister	regulations, restrictions and prohibition regulations over stoffer og processer, der anses for at være kræftfremkaldende	
[F	R] National regulations	
Tablea	regulations, restrictions and prohibition regulations aux de maladies professionnelles nclature des installations classées pour la protection de l'environnement	
<b>[</b> ]	IL] National regulations	
Lijst v Algen	<b>regulations, restrictions and prohibition regulations</b> an kankerverwekkende, mutagene, en voor de voortplanting giftige stoffen SZV beene beoordelingsmethodiek Water (ABM) landse emissierichtlijn (NeR)	V
<b>[</b> ]	H] National regulations	
Othor	regulations, restrictions and prohibition regulations	
	enschwelle (Schweiz - StFV)	
	rencode	
Brand	verhütung, BVD (Schweiz)	
15.2.	Chemical Safety Assessment	
	ical safety assessments for substances in this mixture were not carried out.	
SECT	ION 16: Other information	
	Indication of changes	]
1.4.	Emergency telephone number	
2.1.	Classification of the substance or mixture	
2.2.	Label elements	
3.2.	Mixtures	
4.1.	Description of first aid measures	
7.1.	Precautions for safe handling	
8.1.	Control parameters	
8.2.	Exposure controls	
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	
12.2	Additional information	

13.2. Additional information

UN proper shipping name

Indication of changes

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

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

Safety, health and environmental regulations/legislation specific for the substance or mixture

14.1. UN number

14.2.

14.7.

15.1.

16.1.

16.5.

\*

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## 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.	

# \* 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.	
H361d	Suspected of damaging the unborn child.	
H400	Very toxic to aquatic life.	
H410	Very 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