



Revision date: 30 Aug 2024 Version: 4 Print date: 2 Sept 2024

## 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 M 9-G Serie

Article No.:

1211139

UFI:

AJX8-PMC7-W1QJ-5085

#### 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	Hazard statements	Classification procedure
Aspiration hazard (Asp. Tox. 1)	H304: May be fatal if swallowed and enters airways.	Calculation method.

#### \* 2.2. Label elements

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

Hazard pictograms:



GHS08

Health hazard

Signal word: Danger



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### Hazard components for labelling:

Distillates (petroleum), hydrotreated heavy paraffinic; Base oil - not specified; Distillates (petroleum), hydrotreated light paraffinic; Dec-1-ene, dimers, hydrogenated

#### Hazard statements for health hazards

H304	May be fatal if swallowed and enters airways.
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#### Supplemental hazard information

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

P102	Keep out of reach of children.
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#### Precautionary statements Response

P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/Emergency telephone number.
P331	Do NOT induce vomiting.

#### Precautionary statements Storage

P405	Store locked up.
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#### Precautionary statements Disposal

P501	Dispose of contents/container to an appropriate recycling or disposal facility.
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## 2.3. Other hazards

### Other adverse effects:

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

## SECTION 3: Composition/information on ingredients

### \* 3.2. Mixtures

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

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 64742-54-7 EC No.: 265-157-1 REACH No.: 01-2119484627-25	<b>Distillates (petroleum), hydrotreated heavy paraffinic; Base oil - not specified</b> Asp. Tox. 1 (H304)  Danger <b>Acute Toxicity Estimate</b> ATE (oral) 5,000 mg/kg ATE (dermal) 5,000 mg/kg ATE (inhalation, dust/mist) 5.53 mg/L	30 - < 55 weight-%
CAS No.: 64742-55-8 EC No.: 265-158-7 REACH No.: 01-2119487077-29	<b>Distillates (petroleum), hydrotreated light paraffinic</b> Asp. Tox. 1 (H304)  Danger <b>Acute Toxicity Estimate</b> ATE (oral) > 5,000 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, dust/mist) > 5 mg/L	25 - < 40 weight-%
CAS No.: 68649-11-6 EC No.: 500-228-5 CLP Reference No: 02-0000000000-04-2024 REACH No.: 01-2119493069-28	<b>Dec-1-ene, dimers, hydrogenated</b> Acute Tox. 4 (H332), Asp. Tox. 1 (H304)   Danger <b>Acute Toxicity Estimate</b> ATE (oral) > 5,000 mg/kg ATE (dermal) > 3,000 mg/kg ATE (inhalation, dust/mist) > 1.81 mg/L	5 - < 10 weight-%
CAS No.: 72623-87-1 EC No.: 276-738-4 REACH No.: 01-2119474889-13	<b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil</b> Asp. Tox. 1 (H304)  Danger <b>Acute Toxicity Estimate</b> ATE (oral) > 5,000 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, dust/mist) > 5 mg/L	0 - < 1.5 weight-%

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Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 125643-61-0 EC No.: 406-040-9 Index No.: 607-530-00-7 REACH No.: 01-0000015551-76	<b>Isomer mixture of C7-9-alkyl-3- (3,5-di-trans-butyl-4-hydroxyphenyl) propionate</b> Aquatic Chronic 4 (H413) <b>Acute Toxicity Estimate</b> ATE (oral) > 2,000 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, dust/mist) > 5 mg/L	0 - < 1.5 weight-%
EC No.: 424-820-7 REACH No.: 01-0000017126-75	<b>Reaction product of alkylthioalcohol and substituted phosphorus compound</b> Acute Tox. 4 (H312), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Skin Corr. 1B (H314) Danger M-factor (acute): 10 M-factor (chronic): 10 <b>Acute Toxicity Estimate</b> ATE (dermal) 1,100 mg/kg	0 - < 0.3 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) Warning	0 - < 0.12 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

May be fatal if swallowed and enters airways.

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.

## SECTION 5: Firefighting measures

### \* 5.1. Extinguishing media

#### Suitable extinguishing media:

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

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

Extinguishing powder

alcohol resistant foam

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

#### Unsuitable extinguishing media:

Full water jet

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

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

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



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When hot, product develops flammable vapours.

#### **Hazardous combustion products:**

Carbon monoxide, Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>), Gases/vapours, toxic  
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:**

Wear personal protection equipment (refer to 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

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### 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
TRGS 900 (DE) from 1 Dec 2011	<b>Dec-1-ene, dimers, hydrogenated</b> CAS No.: 68649-11-6 EC No.: 500-228-5	① 5 mg/m <sup>3</sup> ② 20 mg/m <sup>3</sup> ⑤ (alveolengängige Fraktion) Y, DFG
SI from 4 Dec 2018	<b>Dec-1-ene, dimers, hydrogenated</b> CAS No.: 68649-11-6 EC No.: 500-228-5	① 5 mg/m <sup>3</sup> ② 20 mg/m <sup>3</sup> ⑤ (alveolarna frakcija) Y
PL from 12 Jun 2018	<b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil</b> CAS No.: 72623-87-1 EC No.: 276-738-4	① 5 mg/m <sup>3</sup> ⑤ (Mgła olejowa mineralny)
MAK (AT)	<b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil</b> CAS No.: 72623-87-1 EC No.: 276-738-4	① 5 mg/m <sup>3</sup> ⑤ (Ölnebel, mineralisch einatembare Fraktion)
BE	<b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil</b> CAS No.: 72623-87-1 EC No.: 276-738-4	① 5 mg/m <sup>3</sup> ⑤ (Brouillard d'huile minéral)
Québec (CA)	<b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil</b> CAS No.: 72623-87-1 EC No.: 276-738-4	① 5 mg/m <sup>3</sup> ② 10 mg/m <sup>3</sup> ⑤ (Oil mist mineral)
HU from 28 May 2022	<b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil</b> CAS No.: 72623-87-1 EC No.: 276-738-4	① 5 mg/m <sup>3</sup> ⑤ (Olajkód ásványi) T
SE	<b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil</b> CAS No.: 72623-87-1 EC No.: 276-738-4	① 1 mg/m <sup>3</sup> ② 3 mg/m <sup>3</sup> ⑤ (Oljeånga eller rök)

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Limit value type (country of origin)	Substance name	<b>① Long-term occupational exposure limit value</b> <b>② Short-term occupational exposure limit value</b> <b>③ Instantaneous value</b> <b>④ Monitoring and observation processes</b> <b>⑤ Remark</b>
ES	<b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil</b> CAS No.: 72623-87-1 EC No.: 276-738-4	<b>①</b> 5 mg/m <sup>3</sup> <b>②</b> 10 mg/m <sup>3</sup> <b>⑤</b> (Niebla de aceite mineral) am
NL	<b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil</b> CAS No.: 72623-87-1 EC No.: 276-738-4	<b>①</b> 5 mg/m <sup>3</sup> <b>⑤</b> (Olienevel mineraal)
OSHA (US)	<b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil</b> CAS No.: 72623-87-1 EC No.: 276-738-4	<b>①</b> 5 mg/m <sup>3</sup> <b>⑤</b> (Oil mist mineral)
NIOSH (US)	<b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil</b> CAS No.: 72623-87-1 EC No.: 276-738-4	<b>①</b> 5 mg/m <sup>3</sup> <b>②</b> 10 mg/m <sup>3</sup> <b>⑤</b> (Oil mist mineral)
ACGIH (US) from 1 Jan 2010	<b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil</b> CAS No.: 72623-87-1 EC No.: 276-738-4	<b>①</b> 5 mg/m <sup>3</sup> <b>⑤</b> (Oil mist mineral, inhalable fraction)
CZ	<b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil</b> CAS No.: 72623-87-1 EC No.: 276-738-4	<b>①</b> 5 mg/m <sup>3</sup> <b>②</b> 10 mg/m <sup>3</sup> <b>⑤</b> (Rozprášený olej (olejová mlhovina) minerální)
NO	<b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil</b> CAS No.: 72623-87-1 EC No.: 276-738-4	<b>①</b> 1 mg/m <sup>3</sup> <b>⑤</b> (Oljetåke mineralsk)
NPEL (SK) from 23 Nov 2011	<b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil</b> CAS No.: 72623-87-1 EC No.: 276-738-4	<b>①</b> 5 ppm (1 mg/m <sup>3</sup> ) <b>②</b> 15 ppm (3 mg/m <sup>3</sup> ) <b>⑤</b> (Olejová hmlovina minerálny)
Alberta (CA)	<b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil</b> CAS No.: 72623-87-1 EC No.: 276-738-4	<b>①</b> 5 mg/m <sup>3</sup> <b>②</b> 10 mg/m <sup>3</sup> <b>⑤</b> (Oil mist mineral)
HTP (FI)	<b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil</b> CAS No.: 72623-87-1 EC No.: 276-738-4	<b>①</b> 5 mg/m <sup>3</sup> <b>⑤</b> (Öljysumu)
LT	<b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil</b> CAS No.: 72623-87-1 EC No.: 276-738-4	<b>①</b> 1 mg/m <sup>3</sup> <b>②</b> 3 mg/m <sup>3</sup> <b>⑤</b> (Tepalo rūkas arba dūmai)
BC (CA) from 1 Jan 2007	<b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil</b> CAS No.: 72623-87-1 EC No.: 276-738-4	<b>①</b> 0.2 mg/m <sup>3</sup> <b>⑤</b> (Oil mist mineral) 1
MY from 1 Jan 2000	<b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil</b> CAS No.: 72623-87-1 EC No.: 276-738-4	<b>①</b> 5 mg/m <sup>3</sup> <b>⑤</b> (Kabus minyak mineral)
BC (CA) from 1 Jan 2007	<b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil</b> CAS No.: 72623-87-1 EC No.: 276-738-4	<b>①</b> 1 mg/m <sup>3</sup> <b>⑤</b> (Oil mist mineral, highly refined)
TW	<b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil</b> CAS No.: 72623-87-1 EC No.: 276-738-4	<b>①</b> 5 mg/m <sup>3</sup> <b>⑤</b> (# # #)



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GR from 1 Oct 2016	<b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil</b> CAS No.: 72623-87-1 EC No.: 276-738-4	<b>①</b> 5 mg/m <sup>3</sup> <b>⑤</b> (Εκκνέφωμα λαδιού, ορυκτό)
MY from 1 Jan 2000	<b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil</b> CAS No.: 72623-87-1 EC No.: 276-738-4	<b>①</b> 10 mg/m <sup>3</sup> <b>⑤</b> (Kabus minyak, vegetal)
RO from 21 Aug 2018	<b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil</b> CAS No.: 72623-87-1 EC No.: 276-738-4	<b>①</b> 5 mg/m <sup>3</sup> <b>②</b> 10 mg/m <sup>3</sup> <b>⑤</b> (Ceata uleioasa mineral)
CH from 1 Jan 2024	<b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil</b> CAS No.: 72623-87-1 EC No.: 276-738-4	<b>①</b> 5 mg/m <sup>3</sup> <b>⑤</b> (einatembare Fraktion) C2; Messmeth: NIOSH DFG
LV from 12 Jul 2018	<b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil</b> CAS No.: 72623-87-1 EC No.: 276-738-4	<b>①</b> 5 mg/m <sup>3</sup> <b>⑤</b> (Ellas migla)
JP	<b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil</b> CAS No.: 72623-87-1 EC No.: 276-738-4	<b>①</b> 3 mg/m <sup>3</sup> <b>⑤</b> (##### ##)
IDLH (US) from 1 Jan 1994	<b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil</b> CAS No.: 72623-87-1 EC No.: 276-738-4	<b>①</b> 2,500 mg/m <sup>3</sup>
IE from 1 Apr 2016	<b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil</b> CAS No.: 72623-87-1 EC No.: 276-738-4	<b>①</b> 5 mg/m <sup>3</sup> <b>⑤</b> (Oil mist mineral, inhalable fraction)

### 8.1.2. Biological limit values

No data available

### 8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	<b>① DNEL type</b> <b>② Exposure route</b>
<b>Isomer mixture of C7-9-alkyl-3- (3,5-di-trans-butyl-4-hydroxyphenyl) propionate</b> CAS No.: 125643-61-0 EC No.: 406-040-9	2.33 mg/m <sup>3</sup>	<b>①</b> DNEL worker <b>②</b> Long-term - inhalation, systemic effects
<b>Reaction product of alkylthioalcohol and substituted phosphorus compound</b> EC No.: 424-820-7	1.76 mg/m <sup>3</sup>	<b>①</b> DNEL worker <b>②</b> Long-term - inhalation, systemic effects
<b>Reaction product of alkylthioalcohol and substituted phosphorus compound</b> EC No.: 424-820-7	0.5 mg/kg bw/day	<b>①</b> DNEL worker <b>②</b> Long-term - dermal, systemic effects
<b>4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate</b> CAS No.: 93882-40-7 EC No.: 299-434-3	3.526 mg/m <sup>3</sup>	<b>①</b> DNEL worker <b>②</b> Long-term - inhalation, systemic effects

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Substance name	DNEL value	① DNEL type ② Exposure route
<b>4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate</b> CAS No.: 93882-40-7 EC No.: 299-434-3	2 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Substance name	PNEC Value	① PNEC type
<b>Reaction product of alkylthioalcohol and substituted phosphorus compound</b> EC No.: 424-820-7	0.9 µg/L	① PNEC aquatic, freshwater
<b>Reaction product of alkylthioalcohol and substituted phosphorus compound</b> EC No.: 424-820-7	0.09 µg/L	① PNEC aquatic, marine water
<b>Reaction product of alkylthioalcohol and substituted phosphorus compound</b> EC No.: 424-820-7	5 mg/L	① PNEC sewage treatment plant
<b>Reaction product of alkylthioalcohol and substituted phosphorus compound</b> EC No.: 424-820-7	0.159 mg/kg bw/day	① PNEC sediment, freshwater
<b>Reaction product of alkylthioalcohol and substituted phosphorus compound</b> EC No.: 424-820-7	0.0159 mg/kg bw/day	① PNEC sediment, marine water
<b>4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate</b> CAS No.: 93882-40-7 EC No.: 299-434-3	9.5 µg/L	① PNEC aquatic, freshwater
<b>4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate</b> CAS No.: 93882-40-7 EC No.: 299-434-3	0.95 µg/L	① PNEC aquatic, marine water
<b>4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate</b> CAS No.: 93882-40-7 EC No.: 299-434-3	100 mg/L	① PNEC sewage treatment plant
<b>4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate</b> CAS No.: 93882-40-7 EC No.: 299-434-3	95 µg/L	① PNEC aquatic, intermittent release

\* **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:  $\geq 0.4$  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.



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For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Tested protective gloves must be worn: EN ISO 374

Suitable protective clothing: Protective clothing

#### Respiratory protection:

Usually no personal respiratory protection necessary.

### 8.2.3. Environmental exposure controls

See section 7. No additional measures necessary.

## SECTION 9: Physical and chemical properties

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

#### Appearance

**Physical state:** Liquid

**Form:** Liquid

**Colour:** yellow

**Odour:** characteristic

**flammability:** Yes

#### Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	not applicable		
Melting point	No data available		
Freezing point	No data available		
Initial boiling point and boiling range	No data available		
Decomposition temperature	not applicable		
Flash point	194 °C		
Evaporation rate	No data available		
Auto-ignition temperature	No data available		
Upper/lower flammability or explosive limits	No data available		
Vapour pressure	No data available		
Vapour density	No data available		
Density	837 kg/m <sup>3</sup>	15 °C	
Relative density	not applicable		
Bulk density	not applicable		
Water solubility	practically insoluble		
Partition coefficient: n-octanol/water	not applicable		
Dynamic viscosity	No data available		
Kinematic viscosity	17 mm <sup>2</sup> /s	40 °C	

### \* 9.2. Other information

Not applicable

## SECTION 10: Stability and reactivity

### \* 10.1. Reactivity

No known hazardous reactions.

### 10.2. Chemical stability

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

### 10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

### 10.4. Conditions to avoid

To avoid thermal decomposition do not overheat.

### 10.5. Incompatible materials

Materials to avoid: Acid, Oxidizing agent, Reducing agent

### \* 10.6. Hazardous decomposition products

Hazardous combustion products: Carbon monoxide, Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>), During heating or in case of fire, toxic gases is possible.



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## Further information

No information available.

## SECTION 11: Toxicological information

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

**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

**Distillates (petroleum), hydrotreated light paraffinic** CAS No.: 64742-55-8 EC No.: 265-158-7

**LD<sub>50</sub> oral:** >5,000 mg/kg (rats) OECD 401

**LD<sub>50</sub> dermal:** >2,000 mg/kg (rabbits) OECD 402

**LC<sub>50</sub> Acute inhalation toxicity (dust/mist):** >5 mg/L 4 h (rats) OECD 403

**Dec-1-ene, dimers, hydrogenated** CAS No.: 68649-11-6 EC No.: 500-228-5

**LD<sub>50</sub> oral:** >5,000 mg/kg (Rat)

**LD<sub>50</sub> dermal:** >3,000 mg/kg (Rabbit)

**LC<sub>50</sub> Acute inhalation toxicity (dust/mist):** >1.81 mg/L (Rat)

**Lubricating oils (petroleum), C20-50, hydrotreated neutral oil** CAS No.: 72623-87-1 EC No.: 276-738-4

**LD<sub>50</sub> oral:** >5,000 mg/kg (Rat) OECD 401

**LD<sub>50</sub> dermal:** >2,000 mg/kg (Rabbit) OECD 402

**LC<sub>50</sub> Acute inhalation toxicity (dust/mist):** >5 mg/L

**Isomer mixture of C7-9-alkyl-3- (3,5-di-trans-butyl-4-hydroxyphenyl) propionate** CAS No.: 125643-61-0  
EC No.: 406-040-9

**LD<sub>50</sub> oral:** >2,000 mg/kg (Ratte)

**LD<sub>50</sub> dermal:** >2,000 mg/kg (Ratte)

**LC<sub>50</sub> Acute inhalation toxicity (dust/mist):** >5 mg/L

**Reaction product of alkylthioalcohol and substituted phosphorus 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.

### Skin corrosion/irritation:

Based on available data, the classification criteria are not met.

### Serious eye damage/irritation:

Based on available data, the classification criteria are not met.

### Respiratory or skin sensitisation:

Contains 4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate. 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.



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#### Aspiration hazard:

May be fatal if swallowed and enters airways.  
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

#### Endocrine disrupting properties:

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

#### Other information:

No data available.

## SECTION 12: Ecological information

### \* 12.1. Toxicity

**Distillates (petroleum), hydrotreated heavy paraffinic; Base oil - not specified** CAS No.: 64742-54-7  
EC No.: 265-157-1

**LC<sub>50</sub>:** 100 mg/L 4 d (fish)

**LC<sub>50</sub>:** 10,000 mg/L 4 d (crustaceans)

**EC<sub>50</sub>:** 10,000 mg/L 2 d (crustaceans)

**NOEC:** 100 mg/L 4 d (fish)

**NOEC:** 100 mg/L 3 d (Algae/water plant)

**NOEC:** ≥100 mg/L 3 d (Algae/water plant, Algen)

**Distillates (petroleum), hydrotreated light paraffinic** CAS No.: 64742-55-8 EC No.: 265-158-7

**LC<sub>50</sub>:** >100 mg/L 4 d (fish)

**LC<sub>50</sub>:** >10,000 mg/L 4 d (crustaceans)

**LC<sub>50</sub>:** 100 mg/L (fish, Pimephales promelas) OECD 203

**EC<sub>50</sub>:** 10,000 mg/L (crustaceans, Daphnia magna) OECD 202

**NOEC:** >10,000 mg/L 4 d (crustaceans)

**NOEC:** >100 mg/L 3 d (Algae/water plant)

**Dec-1-ene, dimers, hydrogenated** CAS No.: 68649-11-6 EC No.: 500-228-5

**LC<sub>50</sub>:** >1,000 mg/L (fish)

**EC<sub>50</sub>:** >1,000 mg/L (crustaceans)

**EC<sub>50</sub>:** >1,000 mg/L (Algae/water plant)

**Lubricating oils (petroleum), C20-50, hydrotreated neutral oil** CAS No.: 72623-87-1 EC No.: 276-738-4

**EC<sub>50</sub>:** >100 mg/L 2 d (Algae/water plant, Pseudokirchneriella subcapitata) OECD 201

**EC<sub>50</sub>:** >10,000 mg/L 2 d (crustaceans, Daphnia magna (Big water flea)) OECD 202

**NOEC:** 10 mg/L 21 d (crustaceans, Daphnia magna (Big water flea)) OECD 211

**NOEC:** >100 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) OECD 201

**NOEC:** >100 mg/L 4 d (fish, Pimephales promelas (fathead minnow))

**Isomer mixture of C7-9-alkyl-3- (3,5-di-trans-butyl-4-hydroxyphenyl) propionate** CAS No.: 125643-61-0  
EC No.: 406-040-9

**EC<sub>50</sub>:** >100 mg/L 2 d (crustaceans, Daphnia)

**NOEC:** >3 mg/L 3 d (Algae/water plant, Alge)

**Reaction product of alkylthioalcohol and substituted phosphorus compound** EC No.: 424-820-7

**LC<sub>50</sub>:** 1.5 mg/L 4 d (fish)

**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** CAS No.: 93882-40-7 EC No.: 299-434-3

**LC<sub>50</sub>:** 100 mg/L 4 d (fish)

**EC<sub>50</sub>:** 9.5 mg/L 2 d (crustaceans)

**NOEC:** 100 mg/L 3 d (Algae/water plant)

#### Assessment/classification:

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



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#### Additional ecotoxicological information:

Do not allow uncontrolled discharge of product into the environment.

#### \* 12.2. Persistence and degradability

Distillates (petroleum), hydrotreated light paraffinic	CAS No.: 64742-55-8	EC No.: 265-158-7
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Biodegradation:	Yes, slowly
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Dec-1-ene, dimers, hydrogenated	CAS No.: 68649-11-6	EC No.: 500-228-5
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Biodegradation:	Yes, slowly
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Lubricating oils (petroleum), C20-50, hydrotreated neutral oil	CAS No.: 72623-87-1	EC No.: 276-738-4
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Biodegradation:	Yes, slowly
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#### Biodegradation:

Not readily biodegradable (according to OECD criteria)

#### \* 12.3. Bioaccumulative potential

Dec-1-ene, dimers, hydrogenated	CAS No.: 68649-11-6	EC No.: 500-228-5
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Log K <sub>ow</sub> :	> 6.5
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Lubricating oils (petroleum), C20-50, hydrotreated neutral oil	CAS No.: 72623-87-1	EC No.: 276-738-4
--	---------------------	-------------------

Log K <sub>ow</sub> :	6
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#### 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 assessment

Distillates (petroleum), hydrotreated heavy paraffinic; Base oil - not specified	CAS No.: 64742-54-7
EC No.: 265-157-1	

Results of PBT and vPvB assessment:	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
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Distillates (petroleum), hydrotreated light paraffinic	CAS No.: 64742-55-8	EC No.: 265-158-7
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Results of PBT and vPvB assessment:	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
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Dec-1-ene, dimers, hydrogenated	CAS No.: 68649-11-6	EC No.: 500-228-5
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Results of PBT and vPvB assessment:	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
-------------------------------------	--

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil	CAS No.: 72623-87-1	EC No.: 276-738-4
--	---------------------	-------------------

Results of PBT and vPvB assessment:	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
-------------------------------------	--

Isomer mixture of C7-9-alkyl-3- (3,5-di-trans-butyl-4-hydroxyphenyl) propionate	CAS No.: 125643-61-0
EC No.: 406-040-9	

Results of PBT and vPvB assessment:	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
-------------------------------------	--

Reaction product of alkylthioalcohol and substituted phosphorus compound	EC No.: 424-820-7
--	-------------------

Results of PBT and vPvB assessment:	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
--	---------------------	-------------------

Results of PBT and vPvB assessment:	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
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The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### \* 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### 12.7. Other adverse effects

No information available.

### SECTION 13: Disposal considerations

#### \* 13.1. Waste treatment methods

Dispose of waste according to applicable legislation.

#### 13.1.1. Product/Packaging disposal

#### Waste codes/waste designations according to EWC/AVV

#### Directive 2008/98/EC (Waste Framework Directive)

HP 5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
------	---

en / AL / AD / BY / BE / BA / BG / CN / DK / DE / EE / ...

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### 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

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1. UN number or ID number</b>			
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.
<b>14.2. UN proper shipping name</b>			
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.
<b>14.3. Transport hazard class(es)</b>			
not relevant	not relevant	not relevant	not relevant
<b>14.4. Packing group</b>			
not relevant	not relevant	not relevant	not relevant
<b>14.5. Environmental hazards</b>			
not relevant	not relevant	not relevant	not relevant
<b>14.6. Special precautions for user</b>			
not relevant	not relevant	not relevant	not relevant

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

### \* 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU legislation

##### Other regulations (EU):

This product is not assigned to a hazard category.

Safety data sheet available on request.

#### 15.1.2. National regulations

##### [DE] National regulations

##### Restrictions of occupation

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

##### Störfallverordnung (12. BlmschV)

##### for substances contained in the product:

This product is not assigned to a hazard category.

##### Technische Anleitung zur Reinhaltung der Luft (TA-Luft)

##### Remark:

To follow: 5.2.5

##### Water hazard class

##### WGK:

2 - obviously hazardous to water

##### Source:

Self-classification (mixture; calculation rule).



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### Technische Regeln für Gefahrstoffe

TRGS 510  
TRGS 500

### Berufsgenossenschaftliche Vorschriften (DGUV-Vorschriften)

Berufsgenossenschaftliche Informationen (DGUV-Informationen) 868  
Berufsgenossenschaftliche Regeln (DGUV-Regeln) 189, 190, 192, 195

### Other regulations, restrictions and prohibition regulations

Altöl-Verordnung (AltöLV)

### [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 være kraftfremkaldende

### [FR] National regulations

#### Other regulations, restrictions and prohibition regulations

Frankreich: Tableaux de maladies professionnelles

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

Nederland: Lijst van kankerverwekkende, mutagene en voor de voortplanting giftige stoffen (SZW)

Algemene 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 op de ondernemingsraden 1971

### [CH] National regulations

#### Other regulations, restrictions and prohibition regulations

Mengenschwelle (Schweiz - StFV)

Gefahrencode

Brandverhütung, BVD (Schweiz)

### [SK] National regulations

#### Other regulations, restrictions and prohibition regulations

Zákon č. 67/2010 Z.z., o podmienkach uvedenia chemických látok a chemických zmesí na trh a o zmene a doplnení niektorých zákonov (chemický zákon).

Zákon č. 124/2006 Z. z. o bezpečnosti a ochrane zdravia pri práci a o zmene a doplnení niektorých zákonov.

Zákon NR SR č. 355/2007 Z.z., o ochrane, podpore a rozvoji verejného zdravia a o zmene a doplnení niektorých zákonov, v znení neskorších predpisov.

Nariadenie vlády SR 471/2011 Z.z., ktorým sa mení nariadenie vlády Slovenskej republiky č. 355/2006 Z. z. o ochrane zamestnancov pred rizikami súvisiacimi s expozíciou chemickým faktorom pri práci, Príloha č.1.

Zákon č. 79/2015 Z.z. o odpadoch v znení neskorších predpisov.

Vyhľaska MV SR č. 96/2004 Z.z., ktorou sa ustanovujú zásady protipožiarnej bezpečnosti pri manipulácii a skladovaní horľavých kvapalín, ľažkých vykurovacích olejov a rastlinných a živočíšnych tukov a olejov.

Zákon NR SR č. 137/2010 Z.z. o ovzduší v znení neskorších predpisov.

Zákon č. 319/2013 Z.z. o pôsobnosti orgánov štátnej správy pre sprístupňovanie biocídnych výrobkov na trh a ich používanie a o zmene a doplnení niektorých zákonov (biocídny zákon).

### 15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

### \* 15.3. Additional information

No data available.



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## SECTION 16: Other information

### \* 16.1. Indication of changes

1.1.	Product identifier
2.2.	Label elements
3.2.	Mixtures
4.1.	Description of first aid measures
4.2.	Most important symptoms and effects, both acute and delayed
4.3.	Indication of any immediate medical attention and special treatment needed
5.1.	Extinguishing media
6.1.	Personal precautions, protective equipment and emergency procedures
7.1.	Precautions for safe handling
8.1.	Control parameters
8.2.	Exposure controls
9.1.	Information on basic physical and chemical properties
9.2.	Other information
10.1.	Reactivity
10.6.	Hazardous decomposition products
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
13.1.	Waste treatment methods
14.3.	Transport hazard class(es)
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
15.3.	Additional information
16.1.	Indication of changes
16.2.	Abbreviations and acronyms
16.4.	Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]
16.5.	List of relevant hazard statements and/or precautionary statements from sections 2 to 15

### \* 16.2. Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DNEL	derived no-effect level
EC <sub>50</sub>	Effective Concentration 50%
ES	Exposure scenario
EWC	European Waste Catalogue
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
KG	body weight
LC <sub>50</sub>	Lethal (fatal) Concentration 50%
LD <sub>50</sub>	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals



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RID Dangerous goods regulations for transport by rail  
TRGS Technische Regeln für Gefahrstoffe  
UN United Nations

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

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

### 16.3. Key literature references and sources for data

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]**

Hazard classes and hazard categories	Hazard statements	Classification procedure
Aspiration hazard (Asp. Tox. 1)	H304: May be fatal if swallowed and enters airways.	Calculation method.

\* **16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15**

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.
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.
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.