



Revision date: 30 Apr 2024 Version: 4 Print date: 13 Aug 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 Outboardoel 4T SAE 25W-40

Article No.:

1153207

#### 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]**

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

#### 2.2. Label elements

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

According to EC directives or the corresponding national regulations the product does not have to be labelled.

**Hazard statements:** none

##### Supplemental hazard information

EUH210	Safety data sheet available on request.
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**Precautionary statements:** none

#### 2.3. Other hazards

**Other adverse effects:**

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



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

**3.2. Mixtures**

**Hazardous ingredients / Hazardous impurities / Stabilisers:**

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	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	50 - < 90 weight-%
CAS No.: 122-39-4 EC No.: 204-539-4 REACH No.: 01-2119488966-13	<b>diphenylamine</b> Acute Tox. 3 (H301, H311, H331), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Eye Irrit. 2 (H319) Danger <b>Acute Toxicity Estimate</b> ATE (oral) 1,120 mg/kg ATE (dermal) 300 mg/kg ATE (inhalation, vapour) 3 mg/L ATE (inhalation, dust/mist) 0.5 mg/L	0 - < 0.03 weight-%
CAS No.: 64742-94-5 EC No.: 265-198-5 REACH No.: 01-2119451151-53	<b>Solvent naphtha (petroleum), heavy arom.</b> Aquatic Chronic 2 (H411), Asp. Tox. 1 (H304), Carc. 2 (H351), STOT SE 3 (H336) Danger <b>Acute Toxicity Estimate</b> ATE (oral) > 5,000 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, dust/mist) > 5.28 mg/L	0 - < 0.02 weight-%
CAS No.: 91-20-3 EC No.: 202-049-5 Index No.: 601-052-00-2	<b>naphthalene</b> Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Carc. 2 (H351) Warning <b>Acute Toxicity Estimate</b> ATE (oral) > 2,000 mg/kg ATE (dermal) > 2,500 mg/kg ATE (inhalation, vapour) > 0.34 mg/L ATE (inhalation, dust/mist) > 0.4 mg/L	0 - < 0.003 weight-%

Full text of H- and EUH-phrases: see section 16.

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information:**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

**Following inhalation:**

Provide fresh air. Consult a doctor immediately.

**In case of skin contact:**

After contact with skin, wash immediately with plenty of water and soap. Consult a doctor immediately.

**After eye contact:**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

**Following ingestion:**

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

**Self-protection of the first aider:**

Use personal protection equipment. No direct artificial respiration to be given by first aider.

**4.2. Most important symptoms and effects, both acute and delayed**

No known symptoms to date.



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### 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

#### 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.

### 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



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**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.

**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	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
CH from 1 Jan 2022	<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4	① 10 mg/m <sup>3</sup> ⑤ (einatembare Fraktion; Dampf und Aerosol; kann über die Haut aufgenommen werden) H SSC; Tox: Niere Blut Leber; Messmeth: NIOSH OSHA
BE	<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4	① 10 mg/m <sup>3</sup>
CZ from 1 Mar 2020	<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4	① 10 mg/m <sup>3</sup> ② 20 mg/m <sup>3</sup> ⑤ (může pronikat pokožkou) D
NO	<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4	① 5 mg/m <sup>3</sup>



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IE	<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4	① 10 mg/m <sup>3</sup> ② 20 mg/m <sup>3</sup>
MY from 1 Jan 2000	<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4	① 10 mg/m <sup>3</sup>
HTP (FI)	<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4	① 5 mg/m <sup>3</sup> ② 10 mg/m <sup>3</sup>
LT	<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4	① 4 mg/m <sup>3</sup> ② 12 mg/m <sup>3</sup> ⑤
SE	<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4	① 4 mg/m <sup>3</sup> ③ 12 mg/m <sup>3</sup>
MAK (AT)	<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4	① 0.7 ppm (5 mg/m <sup>3</sup> ) ⑤ (einatembare Fraktion, kann über die Haut aufgenommen werden) H
MAK (AT)	<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4	② 1.4 ppm (10 mg/m <sup>3</sup> ) ⑤ (einatembare Fraktion, max. 4x15 min./Schicht, kann über die Haut aufgenommen werden) H
DK	<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4	① 5 mg/m <sup>3</sup> ② 10 mg/m <sup>3</sup>
BG	<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4	① 10 mg/m <sup>3</sup>
HR	<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4	① 10 mg/m <sup>3</sup> ② 20 mg/m <sup>3</sup>
RO	<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4	① 4 mg/m <sup>3</sup> ② 6 mg/m <sup>3</sup>
EE	<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4	① 10 mg/m <sup>3</sup>
Alberta (CA)	<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4	① 10 mg/m <sup>3</sup>
ES	<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4	① 10 mg/m <sup>3</sup> ⑤ s
BC (CA)	<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4	① 10 mg/m <sup>3</sup>
VLA (FR)	<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4	① 10 mg/m <sup>3</sup>
WEL (GB)	<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4	① 10 mg/m <sup>3</sup> ② 20 mg/m <sup>3</sup>
SI from 4 Dec 2018	<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4	① 5 mg/m <sup>3</sup> ② 10 mg/m <sup>3</sup> ⑤ (frakcija ki jo je mogoče vdihniti, računati je treba z možnostjo prodiranja skozi kožo) K, Y



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TW	<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4	① 10 mg/m <sup>3</sup>
KR	<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4	① 10 mg/m <sup>3</sup>
IS	<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4	① 5 mg/m <sup>3</sup>
CN from 1 Jan 2007	<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4	① 10 mg/m <sup>3</sup>
GR from 1 Oct 2016	<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4	① 10 mg/m <sup>3</sup> ② 20 mg/m <sup>3</sup>
TRGS 900 (DE) from 29 Mar 2019	<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4	① 5 mg/m <sup>3</sup> ② 10 mg/m <sup>3</sup> ⑤ (kann über die Haut aufgenommen werden) DFG, Y, H
PL from 12 Jun 2018	<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4	① 8 mg/m <sup>3</sup> ⑤ (wdychalna frakcja)
NIOSH (US)	<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4	① 10 mg/m <sup>3</sup>
ACGIH (US)	<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4	① 10 mg/m <sup>3</sup>
Québec (CA)	<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4	① 10 mg/m <sup>3</sup>
TRGS 900 (DE) from 30 Nov 2017	<b>Solvent naphtha (petroleum), heavy arom.</b> CAS No.: 64742-94-5 EC No.: 265-198-5	① 50 mg/m <sup>3</sup> ② 100 mg/m <sup>3</sup> ⑤ (Kohlenwasserstoffe, aromatisch, C9-C14")
VLA (FR)	<b>Solvent naphtha (petroleum), heavy arom.</b> CAS No.: 64742-94-5 EC No.: 265-198-5	① 150 mg/m <sup>3</sup> ⑤ (Hydrocarbures aromatiques en C9-12, distillation du benzène; Distillat d'huile légère, haut point d'ébullition, vapeur)
NO	<b>Solvent naphtha (petroleum), heavy arom.</b> CAS No.: 64742-94-5 EC No.: 265-198-5	① 25 ppm (120 mg/m <sup>3</sup> ) ⑤ (hvit spirit aromatisk innhold: < 22 %)
CH from 1 Jan 2022	<b>Solvent naphtha (petroleum), heavy arom.</b> CAS No.: 64742-94-5 EC No.: 265-198-5	① 100 ppm (525 mg/m <sup>3</sup> ) ⑤ Messmeth: OSHA
MAK (AT)	<b>Solvent naphtha (petroleum), heavy arom.</b> CAS No.: 64742-94-5 EC No.: 265-198-5	① 20 mL/m <sup>3</sup> ② 40 mL/m <sup>3</sup> ⑤ (für Kohlenwasserstoffgemische mit einem Gehalt an aromatischen Kohlenwasserstoffen von mehr als 25 %)
MAK (AT)	<b>Solvent naphtha (petroleum), heavy arom.</b> CAS No.: 64742-94-5 EC No.: 265-198-5	① 70 mL/m <sup>3</sup> ② 140 mL/m <sup>3</sup> ⑤ (für Kohlenwasserstoffgemische mit einem Gehalt an aromatischen Kohlenwasserstoffen von 1 % bis 25 % und an Hexanen von weniger als 1 %)



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WEL (GB)	<b>Solvent naphtha (petroleum), heavy arom.</b> CAS No.: 64742-94-5 EC No.: 265-198-5	① 500 mg/m <sup>3</sup> ⑤ (hydrocarbons, aromatic)
SI from 4 Dec 2018	<b>Solvent naphtha (petroleum), heavy arom.</b> CAS No.: 64742-94-5 EC No.: 265-198-5	① 50 mg/m <sup>3</sup>
CH from 1 Jan 2022	<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m <sup>3</sup> ) ⑤ (Dampf und Aerosol; kann über die Haut aufgenommen werden) H C2; Tox: Blut OAW Auge; Messmeth: NIOSH OSHA
BE	<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (53 mg/m <sup>3</sup> ) ② 15 ppm (80 mg/m <sup>3</sup> ) ⑤ (peut être absorbé par la peau) D
CZ from 1 Mar 2020	<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	① 9.4 ppm (50 mg/m <sup>3</sup> ) ② 18.8 ppm (100 mg/m <sup>3</sup> )
PL from 12 Jun 2018	<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	① 20 mg/m <sup>3</sup> ② 50 mg/m <sup>3</sup> ⑤ (może przenikać przez skórę do organizmu) skóra
NO	<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m <sup>3</sup> ) ⑤ E
IE from 17 Jan 2020	<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m <sup>3</sup> ) ⑤ IOELV
HTP (FI)	<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	① 1 ppm (5 mg/m <sup>3</sup> ) ② 2 ppm (10 mg/m <sup>3</sup> )
LT	<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m <sup>3</sup> ) ⑤ (kancerogeninis) K
SE	<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m <sup>3</sup> ) ③ 15 ppm (80 mg/m <sup>3</sup> )
NPEL (SK) from 23 Nov 2011	<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m <sup>3</sup> ) ② 15 ppm (80 mg/m <sup>3</sup> ) ⑤ K
TRGS 900 (DE) from 23 Jun 2022	<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	① 0.4 ppm (2 mg/m <sup>3</sup> ) ② 1.6 ppm (8 mg/m <sup>3</sup> ) ⑤ (Aerosol und Dampf, kann über die Haut aufgenommen werden) AGS, H, Y, EU, 11, 27
DK	<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m <sup>3</sup> ) ② 20 ppm (100 mg/m <sup>3</sup> ) ⑤ EK
BG	<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	① 50 mg/m <sup>3</sup> ② 75 mg/m <sup>3</sup>
HR	<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m <sup>3</sup> )



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ES	<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (53 mg/m <sup>3</sup> ) ② 15 ppm (80 mg/m <sup>3</sup> ) ⑤ (puede ser absorbido a través dérmica) vía dérmica, VLI
RO from 21 Aug 2018	<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m <sup>3</sup> ) ⑤ C2
EE	<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m <sup>3</sup> )
LV	<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m <sup>3</sup> )
Alberta (CA) from 1 Dec 2021	<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (52 mg/m <sup>3</sup> ) ② 15 ppm (79 mg/m <sup>3</sup> ) ⑤ (may be absorbed through the skin) 1
BC (CA) from 1 Jun 2018	<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm ⑤ (may be absorbed through the skin) Skin; 2B
MY from 1 Jan 2000	<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (52 mg/m <sup>3</sup> )
IOELV (EU)	<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m <sup>3</sup> )
VLA (FR)	<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m <sup>3</sup> )
SI from 4 Dec 2018	<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	① 50 mg/m <sup>3</sup> ② 50 mg/m <sup>3</sup> ⑤ (frakcija ki jo je mogoče vdihniti računati je treba z možnostjo prodiranja skozi kožo) K, Y, EU0
TW	<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (52 mg/m <sup>3</sup> )
KR	<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m <sup>3</sup> ) ② 15 ppm (75 mg/m <sup>3</sup> )
IS	<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m <sup>3</sup> )
CN from 1 Apr 2020	<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	① 50 mg/m <sup>3</sup> ② 75 mg/m <sup>3</sup> ⑤ (#####)
RU	<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	③ 20 mg/m <sup>3</sup>
HU	<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	① 50 mg/m <sup>3</sup> ⑤ i
GR from 1 Oct 2016	<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m <sup>3</sup> )
NL	<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	① 50 mg/m <sup>3</sup> ② 80 mg/m <sup>3</sup>



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NL from 1 Jan 2023	<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m <sup>3</sup> ) ② 16 ppm (80 mg/m <sup>3</sup> )
MAK (AT)	<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m <sup>3</sup> ) ⑤ (kann über die Haut aufgenommen werden) III B, H
SI from 4 Dec 2018	<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm ② 10 ppm ⑤ (računati je treba z možnostjo prodiranja skozi kožo) K, Y, EU0
TR	<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m <sup>3</sup> )
IDLH (US) from 1 Jan 1994	<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	① 250 ppm
Québec (CA) from 1 Apr 2022	<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm ⑤ (may be absorbed through the skin)
OSHA (US)	<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m <sup>3</sup> )
NIOSH (US)	<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m <sup>3</sup> ) ② 15 ppm (75 mg/m <sup>3</sup> )
ACGIH (US)	<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (52 mg/m <sup>3</sup> ) ② 15 ppm (79 mg/m <sup>3</sup> ) ⑤ (may be absorbed through the skin)

### 8.1.2. Biological limit values

No data available

### 8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
<b>Solvent naphtha (petroleum), heavy arom.</b> CAS No.: 64742-94-5 EC No.: 265-198-5	2.31 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
<b>Solvent naphtha (petroleum), heavy arom.</b> CAS No.: 64742-94-5 EC No.: 265-198-5	0.95 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	25 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	25 mg/m <sup>3</sup>	① DNEL worker ② Acute - inhalation, local effects

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

See section 7. No additional measures necessary.

### 8.2.2. Personal protection equipment





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**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.

**8.3. Additional information**

Mineral oil mist limits:  
 OSHA PEL - value 5 mg / m<sup>3</sup>, ACGIH STEL - value of 10 mg / m<sup>3</sup>

**SECTION 9: Physical and chemical properties**

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

**Appearance**

**Physical state:** Liquid **Colour:** blue  
**Odour:** characteristic

**Safety relevant basis data**

Parameter	Value	at °C	① Method ② Remark
pH	<i>not applicable</i>		
Melting point	<i>No data available</i>		
Freezing point	<i>No data available</i>		
Initial boiling point and boiling range	<i>No data available</i>		
Decomposition temperature	<i>not applicable</i>		
Flash point	262 °C		
Evaporation rate	<i>No data available</i>		
Auto-ignition temperature	<i>No data available</i>		
Upper/lower flammability or explosive limits	<i>No data available</i>		
Vapour pressure	<i>No data available</i>		
Vapour density	<i>No data available</i>		
Density	881 kg/m <sup>3</sup>	15 °C	
Relative density	<i>not applicable</i>		
Bulk density	<i>not applicable</i>		
Water solubility	practically insoluble		
Partition coefficient: n-octanol/water	<i>not applicable</i>		
Dynamic viscosity	<i>No data available</i>		
Kinematic viscosity	123 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.



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

**Further information**

No information available.

**SECTION 11: Toxicological information**

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

<b>Distillates (petroleum), hydrotreated heavy paraffinic; Base oil - not specified</b> CAS No.: 64742-54-7 EC No.: 265-157-1
<b>LD<sub>50</sub> oral:</b> 5,000 mg/kg (Rat) OECD 401
<b>LD<sub>50</sub> dermal:</b> 5,000 mg/kg (Rabbit) OECD 402
<b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> 5.53 mg/L 4 h (Rat) OECD 403
<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4
<b>LD<sub>50</sub> oral:</b> 1,120 mg/kg
<b>Solvent naphtha (petroleum), heavy arom.</b> CAS No.: 64742-94-5 EC No.: 265-198-5
<b>LD<sub>50</sub> oral:</b> >5,000 mg/kg (Rat) OECD 401
<b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Rabbit) OECD 402
<b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> >5.28 mg/L
<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5
<b>LD<sub>50</sub> oral:</b> >2,000 mg/kg (rat) OECD Guideline 401 (Acute Oral Toxicity)
<b>LD<sub>50</sub> dermal:</b> >2,500 mg/kg (rat)
<b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> >0.34 mg/L (Rat)
<b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> >0.4 mg/L

**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:**

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

**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:**

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**

<b>Distillates (petroleum), hydrotreated heavy paraffinic; Base oil - not specified</b> CAS No.: 64742-54-7 EC No.: 265-157-1
<b>LC<sub>50</sub></b> : 100 mg/L 4 d (fish)
<b>LC<sub>50</sub></b> : 10,000 mg/L 4 d (crustaceans)
<b>EC<sub>50</sub></b> : 10,000 mg/L 2 d (crustaceans)
<b>NOEC</b> : 100 mg/L 4 d (fish)
<b>NOEC</b> : 100 mg/L 3 d (Algae/water plant)
<b>NOEC</b> : ≥100 mg/L 3 d (Algae/water plant, Algen)
<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4
<b>LC<sub>50</sub></b> : 3.79 mg/L 4 d (fish)
<b>LC<sub>50</sub></b> : 2.2 mg/L 2 d (fish)
<b>EC<sub>50</sub></b> : 1.16 mg/L 2 d (crustaceans)
<b>EC<sub>50</sub></b> : 2.17 mg/L 3 d (Algae/water plant)
<b>EC<sub>50</sub></b> : 0.31 mg/L 2 d (crustaceans, Wasserfloh)
<b>EC<sub>50</sub></b> : 1.51 mg/L 3 d (Algae/water plant, Grünalgen)
<b>Solvent naphtha (petroleum), heavy arom.</b> CAS No.: 64742-94-5 EC No.: 265-198-5
<b>LC<sub>50</sub></b> : 2 - 5 mg/L 4 d (Oncorhynchus mykiss)
<b>LC<sub>50</sub></b> : ≥2 - ≤5 mg/L 4 d (fish, Oncorhynchus mykiss (Rainbow trout))
<b>EC<sub>50</sub></b> : 1.4 mg/L 2 d (crustaceans)
<b>EC<sub>50</sub></b> : 1.3 mg/L 3 d (Algae/water plant)
<b>EC<sub>50</sub></b> : 3 - 10 mg/L 2 d (Daphnia magna)
<b>NOEC</b> : 2.5 mg/L 4 d (fish)
<b>NOEC</b> : 0.3 mg/L 2 d (crustaceans)
<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5
<b>LC<sub>50</sub></b> : 6.08 mg/L 3 d (fish, Pimephales promelas)
<b>LC<sub>50</sub></b> : 1.2 mg/L 4 d (fish, Oncorhynchus gorboscha)
<b>LC<sub>50</sub></b> : 6.35 mg/L 2 d (fish, Pimephales promelas)
<b>EC<sub>50</sub></b> : 2.16 mg/L 2 d (crustaceans, Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
<b>NOEC</b> : 0.12 mg/L 40 d (fish, Oncorhynchus gorboscha)
<b>LOEC</b> : 0.38 mg/L 40 d (fish, Oncorhynchus gorboscha)
<b>EC<sub>50</sub></b> : 1.96 mg/L 2 d (crustaceans, Daphnia magna)

**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.

**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)



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\* **12.3. Bioaccumulative potential**

<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4
<b>Log K<sub>OW</sub></b> : 3.4
<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5
<b>Log K<sub>OW</sub></b> : 3.45
<b>Bioconcentration factor (BCF)</b> : 168

**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**

<b>Distillates (petroleum), hydrotreated heavy paraffinic; Base oil - not specified</b> CAS No.: 64742-54-7 EC No.: 265-157-1
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
<b>Solvent naphtha (petroleum), heavy arom.</b> CAS No.: 64742-94-5 EC No.: 265-198-5
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

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

**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 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**

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.



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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<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**

**Störfallverordnung (12. BImSchV)**

**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).  
 Identification number 436

**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 (AltöIV)

 **[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 kræftfremkaldende

 **[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**

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



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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.  
 Vyhláška MV SR č. 96/2004 Z.z., ktorou sa ustanovujú zásady protipožiarnej bezpečnosti pri manipulácii a skladovaní horľavých kvapalín, ťažkých 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.

**SECTION 16: Other information**

\* **16.1. Indication of changes**

3.2.	Mixtures
8.1.	Control parameters
10.6.	Hazardous decomposition products
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
12.1.	Toxicity
12.3.	Bioaccumulative potential
12.5.	Results of PBT and vPvB assessment
16.1.	Indication of changes

**16.2. Abbreviations and acronyms**

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)



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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)

Substance name	Type	source of supply
<b>naphthalene</b> CAS No.: 91-20-3 EC No.: 202-049-5	LD <sub>50</sub> oral; LD <sub>50</sub> dermal; LC <sub>50</sub> ; EC <sub>50</sub> ; NOEC; LOEC	Source: European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>

**16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]**

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

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

Hazard statements	
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
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.