



Revision date: 26 Jul 2021 Version: 4 Print date: 10 Aug 2021

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

\* **1.1. Product identifier**

Trade name/designation:

RAVENOL Racing Gearoil

Article No.:

1221111

UFI:

J89T-AYQK-DDCR-86X3

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Use of the substance/mixture:

Lubricant

**1.3. Details of the supplier of the safety data sheet**

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Ravensberger Schmierstoffvertrieb GmbH

Jöllenbecker Str. 2

33824 Werther

Germany

Telephone: +49 5203 9719 0

Telefax: +49 5203 9719 40

E-mail: kontakt@ravenol.de

Website: www.ravenol.de

E-mail (competent person): technik@ravenol.de

\* **1.4. Emergency telephone number**

Abt. Technik (Produktsicherheit), 24h: +49 700 24 112 112 (Company ID: RAV) (outside USA/Canada)  
011 49 700 24 112 112 (Company ID: RAV) (inside USA/Canada), +49 5203 9719 0 (Mo-Do 7.30 Uhr -  
16.30 Uhr, Fr 7.30 Uhr - 13.15 Uhr) (Only available during office hours.)

**SECTION 2: Hazards identification**

\* **2.1. Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Respiratory or skin sensitisation (Skin Sens. 1)	H317: May cause an allergic skin reaction.	Calculation method.
Hazardous to the aquatic environment (Aquatic Chronic 3)	H412: Harmful to aquatic life with long lasting effects.	Calculation method.

\* **2.2. Label elements**

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

Hazard pictograms:



**GHS07**

Exclamation mark

Signal word: Warning

Hazard components for labelling:

Amines, C10-14-tert-alkyl; Phenol, (tetrapropenyl) Derivate; C16-18-(even numbered, saturated and unsaturated)-alkylamines



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**hazard statements for health hazards**

H317 May cause an allergic skin reaction.

**Hazard statements for environmental hazards**

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements Prevention**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Precautionary statements Response**

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
 P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

**Precautionary statements Disposal**

P501 Dispose of contents/container to an appropriate recycling or disposal facility.

\* **2.3. Other hazards**

**Other adverse effects:**

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

**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
<b>EC No.:</b> 701-175-2 <b>REACH No.:</b> 01-2119456798-18	<b>Amines, C10-14-tert-alkyl</b> Acute Tox. 2 (H330), Acute Tox. 3 (H311), Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Eye Dam. 1 (H318), Skin Corr. 1B (H314), Skin Sens. 1A (H317)  M-factor (acute): 1 M-factor (chronic): 1	0 - < 1 weight-%
<b>CAS No.:</b> 1213789-63-9 <b>EC No.:</b> 627-034-4 <b>REACH No.:</b> 01-2119473797-19	<b>C16-18-(even numbered, saturated and unsaturated)- alkylamines</b> Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Asp. Tox. 1 (H304), Eye Dam. 1 (H318), STOT RE 2 (H373), STOT SE 3 (H335), Skin Corr. 1B (H314)  <b>Danger</b> M-factor (acute): 10 M-factor (chronic): 10	0 - < 0.5 weight-%
<b>CAS No.:</b> 74499-35-7	<b>Phenol, (tetrapropenyl) Derivate</b> Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Eye Dam. 1 (H318), Repr. 1B (H360F), Skin Corr. 1C (H314)  <b>Danger</b> M-factor (acute): 10 M-factor (chronic): 10	0 - < 0.05 weight-%
<b>CAS No.:</b> 91-20-3 <b>EC No.:</b> 202-049-5	<b>naphthalene</b> Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Carc. 2 (H351)  <b>Warning</b>	0 - < 0.05 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.



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**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 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

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:**

Wear protective gloves/protective clothing/eye protection/face protection.

**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.



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\* **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.

**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.



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## 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
TRGS 900 (DE)	Hydrocarbons, C12-C15, n-alkanes, iso-alkanes, cyclenes, <2% aromatics CAS No.: 64742-47-8 EC No.: 920-107-4	① 300 mg/m <sup>3</sup> ② 600 mg/m <sup>3</sup> ⑤ (C9-C14 Aliphaten)
VLA (FR)	Hydrocarbons, C12-C15, n-alkanes, iso-alkanes, cyclenes, <2% aromatics CAS No.: 64742-47-8 EC No.: 920-107-4	① 1,000 mg/m <sup>3</sup> ② 1,500 mg/m <sup>3</sup> ⑤ (hydrocarbures C9-C12)
NO	Hydrocarbons, C12-C15, n-alkanes, iso-alkanes, cyclenes, <2% aromatics CAS No.: 64742-47-8 EC No.: 920-107-4	① 50 ppm (275 mg/m <sup>3</sup> ) ⑤ (White Spirit (aromatinnhold < 22 %))
DFG (DE)	Hydrocarbons, C12-C15, n-alkanes, iso-alkanes, cyclenes, <2% aromatics CAS No.: 64742-47-8 EC No.: 920-107-4	① 5 mg/m <sup>3</sup> ② 20 mg/m <sup>3</sup> ⑤ (Aerosol, alveolengängige Fraktion)
MAK (AT)	Hydrocarbons, C12-C15, n-alkanes, iso-alkanes, cyclenes, <2% aromatics CAS No.: 64742-47-8 EC No.: 920-107-4	① 200 mL/m <sup>3</sup> ② 400 mL/m <sup>3</sup> ⑤ (für Kohlenwasserstoffgemische mit einem Gehalt an aromatischen Kohlenwasserstoffen von weniger als 1 %, an n-Hexan von weniger als 5 % und an Cyclo-/Isohexanen von weniger als 25 %)
MAK (AT)	Hydrocarbons, C12-C15, n-alkanes, iso-alkanes, cyclenes, <2% aromatics CAS No.: 64742-47-8 EC No.: 920-107-4	① 170 mL/m <sup>3</sup> ② 340 mL/m <sup>3</sup> ⑤ (für Kohlenwasserstoffgemische mit einem Gehalt an aromatischen Kohlenwasserstoffen von weniger als 1 %, an n-Hexan von weniger als 5 % und an Cyclo-/Isohexanen von 25 % oder mehr)
WEL (GB)	Hydrocarbons, C12-C15, n-alkanes, iso-alkanes, cyclenes, <2% aromatics CAS No.: 64742-47-8 EC No.: 920-107-4	① 1,200 mg/m <sup>3</sup> ⑤ (> or = C7, Normal and branched chain alkanes)
WEL (GB)	Hydrocarbons, C12-C15, n-alkanes, iso-alkanes, cyclenes, <2% aromatics CAS No.: 64742-47-8 EC No.: 920-107-4	① 800 mg/m <sup>3</sup> ⑤ (> or = C7, Cycloalkanes)
DFG (DE)	Hydrocarbons, C12-C15, n-alkanes, iso-alkanes, cyclenes, <2% aromatics CAS No.: 64742-47-8 EC No.: 920-107-4	① 50 ppm (350 mg/m <sup>3</sup> ) ② 100 ppm (700 mg/m <sup>3</sup> ) ⑤ (Dampf)
RU	Hydrocarbons, C12-C15, n-alkanes, iso-alkanes, cyclenes, <2% aromatics CAS No.: 64742-47-8 EC No.: 920-107-4	① 100 mg/m <sup>3</sup> ③ 300 mg/m <sup>3</sup>



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CH	Hydrocarbons, C12-C15, n-alkanes, iso-alkanes, cyclenes, <2% aromatics CAS No.: 64742-47-8 EC No.: 920-107-4	① 50 ppm (350 mg/m <sup>3</sup> ) ② 100 ppm (700 mg/m <sup>3</sup> ) ⑤ (Dampf)
SI	Hydrocarbons, C12-C15, n-alkanes, iso-alkanes, cyclenes, <2% aromatics CAS No.: 64742-47-8 EC No.: 920-107-4	① 700 mg/m <sup>3</sup>
RO	Hydrocarbons, C12-C15, n-alkanes, iso-alkanes, cyclenes, <2% aromatics CAS No.: 64742-47-8 EC No.: 920-107-4	① 700 mg/m <sup>3</sup> ② 1,000 mg/m <sup>3</sup>
CH	naphthalene 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)
BE	naphthalene 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)
CZ	naphthalene 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	naphthalene 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)
NO	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m <sup>3</sup> )
IE	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m <sup>3</sup> )
HTP (FI)	naphthalene 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	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m <sup>3</sup> ) ⑤ (Kancerogeninės)
SE	naphthalene 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)	naphthalene 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> )
TRGS 900 (DE)	naphthalene 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)
DK	naphthalene 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> )
BG	naphthalene 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	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m <sup>3</sup> )



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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
ES	naphthalene 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)
RO	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m <sup>3</sup> )
EE	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m <sup>3</sup> )
LV	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m <sup>3</sup> )
Alberta (CA)	naphthalene 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> )
BC (CA)	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm ⑤ (may be absorbed through the skin)
MY	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (52 mg/m <sup>3</sup> )
IOELV (EU)	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m <sup>3</sup> )
VLA (FR)	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m <sup>3</sup> )
SI	naphthalene 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 možnos tjo prodiranja skozi kožo)
TW	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (52 mg/m <sup>3</sup> )
KR	naphthalene 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	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m <sup>3</sup> )
CN	naphthalene 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 (必须考虑到可能会经由皮肤吸收)
RU	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	③ 20 mg/m <sup>3</sup>
HU	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 50 mg/m <sup>3</sup>
GR	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m <sup>3</sup> )
NL	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 50 mg/m <sup>3</sup> ② 80 mg/m <sup>3</sup>
MAK (AT)	naphthalene 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)



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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
SI	naphthalene 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)
TR	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m <sup>3</sup> )
Québec (CA)	naphthalene 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> )
OSHA (US)	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m <sup>3</sup> )
NIOSH (US)	naphthalene 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)	naphthalene 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
Amines, C10-14-tert-alkyl EC No.: 701-175-2	2.5 mg/m <sup>3</sup>	① DNEL Consumer ② Long-term - inhalation, systemic effects
Amines, C10-14-tert-alkyl EC No.: 701-175-2	12.1 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, local effects
Amines, C10-14-tert-alkyl EC No.: 701-175-2	1.2 mg/m <sup>3</sup>	① DNEL Consumer ② Long-term - inhalation, local effects
C16-18-(even numbered, saturated and unsaturated)-alkylamines CAS No.: 1213789-63-9 EC No.: 627-034-4	0.38 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
C16-18-(even numbered, saturated and unsaturated)-alkylamines CAS No.: 1213789-63-9 EC No.: 627-034-4	1 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, local effects
C16-18-(even numbered, saturated and unsaturated)-alkylamines CAS No.: 1213789-63-9 EC No.: 627-034-4	1 mg/cm <sup>2</sup>	① DNEL worker ② Acute - inhalation, local effects
naphthalene 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
naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	25 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, local effects
naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	3.57 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects





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Substance name	PNEC Value	① PNEC type
Distillates (petroleum), solvent-dewaxed heavy paraffinic CAS No.: 64742-65-0 EC No.: 265-169-7	9.33 mg/kg	① PNEC secondary poisoning
C16-18-(even numbered, saturated and unsaturated)-alkylamines CAS No.: 1213789-63-9 EC No.: 627-034-4	0.26 µg/l	① PNEC aquatic, freshwater
C16-18-(even numbered, saturated and unsaturated)-alkylamines CAS No.: 1213789-63-9 EC No.: 627-034-4	0.026 µg/l	① PNEC aquatic, marine water
C16-18-(even numbered, saturated and unsaturated)-alkylamines CAS No.: 1213789-63-9 EC No.: 627-034-4	3.76 mg/kg	① PNEC sediment, freshwater
C16-18-(even numbered, saturated and unsaturated)-alkylamines CAS No.: 1213789-63-9 EC No.: 627-034-4	0.376 mg/kg	① PNEC sediment, marine water
C16-18-(even numbered, saturated and unsaturated)-alkylamines CAS No.: 1213789-63-9 EC No.: 627-034-4	10 mg/kg	① PNEC soil
naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	2.4 µg/l	① PNEC aquatic, freshwater
naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	2.4 µg/l	① PNEC aquatic, marine water
naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	2.9 mg/l	① PNEC sewage treatment plant
naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	20 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.

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.



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### 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

**Colour:** blue

**Odour:** characteristic

#### Safety relevant basis data

parameter		at °C	Method	Remark
pH	<i>not determined</i>			
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	<i>not determined</i>			
Decomposition temperature	<i>not determined</i>			
Flash point	204 °C			
Evaporation rate	<i>not determined</i>			
Auto-ignition temperature	<i>not determined</i>			
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	868 kg/m <sup>3</sup>	15 °C		
Relative density	<i>not determined</i>			
Bulk density	<i>not determined</i>			
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	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	187 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. 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, Oxidizing agent, Reducing agent

### 10.6. Hazardous decomposition products

Hazardous combustion products: Carbon dioxide Carbon monoxide Nitrogen oxides (NO<sub>x</sub>)

#### Further information

No information available.



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## SECTION 11: Toxicological information

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

Substance name	Toxicological information
Distillates (petroleum), solvent-dewaxed heavy paraffinic CAS No.: 64742-65-0 EC No.: 265-169-7	<b>LD<sub>50</sub> oral:</b> >5,000 mg/kg <b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg <b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> >5 mg/l
Amines, C10-14-tert-alkyl EC No.: 701-175-2	<b>LD<sub>50</sub> oral:</b> 612 mg/kg (Rat) OECD TG 401 <b>LD<sub>50</sub> dermal:</b> 251 mg/kg (Rabbit) OECD TG 402 <b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> >1.19 mg/l 4 h (Rat)
C16-18-(even numbered, saturated and unsaturated)-alkylamines CAS No.: 1213789-63-9 EC No.: 627-034-4	<b>LD<sub>50</sub> oral:</b> >1,200 mg/kg (Rat) OECD 401 <b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Rat) OECD 402 <b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> >5 mg/l 4 h
Phenol, (tetrapropenyl) Derivate CAS No.: 74499-35-7	<b>LD<sub>50</sub> oral:</b> >2,000 mg/kg (Rat) <b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg <b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> >5 mg/l
naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	<b>LD<sub>50</sub> oral:</b> >533 mg/kg (Mouse) <b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> >0.4 mg/l 4 h (Rat) <b>LD<sub>50</sub> dermal:</b> >16,000 mg/kg (Rat)

**Acute oral toxicity:**

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

**Acute dermal toxicity:**

No information available for acute dermal and inhalative toxicity.

**Acute inhalation toxicity:**

No information available for acute dermal and inhalative toxicity.

**Skin corrosion/irritation:**

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:**

May cause an allergic skin reaction.

**Germ cell mutagenicity:**

No indications of human germ cell mutagenicity exist.

**Carcinogenicity:**

No indication of human carcinogenicity.

**Reproductive toxicity:**

No indications of human reproductive toxicity exist.

**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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**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.

**SECTION 12: Ecological information**

\* **12.1. Toxicity**

Substance name	Toxicological information
Distillates (petroleum), solvent-dewaxed heavy paraffinic CAS No.: 64742-65-0 EC No.: 265-169-7	<b>LC<sub>50</sub></b> : >1,000 mg/l 4 d (fish, Salmo gairdneri) <b>EC<sub>50</sub></b> : >1,000 mg/l 2 d (crustaceans, Daphnia Magna) <b>EC<sub>50</sub></b> : >1,000 mg/l 4 d (Algae/water plant, Scenedesmus subspicatus)
Amines, C10-14-tert-alkyl EC No.: 701-175-2	<b>LC<sub>50</sub></b> : 1.3 mg/l 4 d (fish, rainbow trout) <b>NOEC</b> : 0.078 mg/l 56 d (fish, rainbow trout) <b>EC<sub>50</sub></b> : 2.5 mg/l 2 d (crustaceans, Daphnia magna) <b>NOEC</b> : 0.05 mg/l 3 d (Algae/water plant, Selenastrum capricornutum) <b>EC<sub>50</sub></b> : 0.435 mg/l 3 d (Algae/water plant, Selenastrum capricornutum)
C16-18-(even numbered, saturated and unsaturated)-alkylamines CAS No.: 1213789-63-9 EC No.: 627-034-4	<b>NOEC</b> : >0.63 mg/l 4 d (fish) <b>LC<sub>50</sub></b> : >0.84 mg/l 4 d (fish) <b>EC<sub>50</sub></b> : >0.32 mg/l 2 d (crustaceans) <b>EC<sub>50</sub></b> : >0.39 mg/l 3 d (Algae/water plant)
Phenol, (tetrapropenyl) Derivate CAS No.: 74499-35-7	<b>LC<sub>50</sub></b> : =40 mg/l 4 d (fish) <b>EC<sub>50</sub></b> : =0.037 mg/l 2 d (crustaceans) <b>EC<sub>50</sub></b> : =0.36 mg/l 3 d (Algae/water plant) <b>NOEC</b> : =0.0037 mg/l 21 d (crustaceans) <b>NOEC</b> : =0.07 mg/l 3 d (Algae/water plant)
naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	<b>LC<sub>50</sub></b> : >1.2 - <2.1 mg/l 4 d (fish) <b>EC<sub>50</sub></b> : >2.16 mg/l 2 d (crustaceans) <b>EC<sub>50</sub></b> : >2.96 mg/l 4 d (Algae/water plant)

**Aquatic toxicity:**

Harmful to aquatic life with long lasting effects.

**Additional ecotoxicological information:**

Do not allow uncontrolled discharge of product into the environment.

\* **12.2. Persistence and degradability**

Substance name	Biodegradation	Remark
Amines, C10-14-tert-alkyl EC No.: 701-175-2	Yes, slowly	
Phenol, (tetrapropenyl) Derivate CAS No.: 74499-35-7	Yes, slowly	

**Biodegradation:**

Not readily biodegradable (according to OECD criteria)

\* **12.3. Bioaccumulative potential**

Substance name	Log K <sub>ow</sub>	Bioconcentration factor (BCF)
Phenol, (tetrapropenyl) Derivate CAS No.: 74499-35-7		1,601
naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	3.7	168

**Accumulation / Evaluation:**

The product has not been tested.



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### 12.4. Mobility in soil

The product has not been tested.

### \* 12.5. Results of PBT and vPvB assessment

Substance name	Results of PBT and vPvB assessment
Distillates (petroleum), solvent-dewaxed heavy paraffinic CAS No.: 64742-65-0 EC No.: 265-169-7	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
Amines, C10-14-tert-alkyl EC No.: 701-175-2	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
C16-18-(even numbered, saturated and unsaturated)-alkylamines CAS No.: 1213789-63-9 EC No.: 627-034-4	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
Phenol, (tetrapropenyl) Derivate CAS No.: 74499-35-7	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	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. Consult the appropriate local waste disposal expert about waste disposal.

##### Appropriate disposal / Package:

Non-contaminated packages may be recycled.

### 13.2. Additional information

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

## SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<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			
<b>14.4. Packing group</b>			
not relevant			



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

not relevant

**14.6. Special precautions for user**

not relevant

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

No transport as bulk according to IBC Code.

**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):**

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: 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 juvenils 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**

**for substances contained in the product:**

This product is not assigned to a hazard category.  
 E1 Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

**Technische Anleitung Luft (TA-Luft)**

**Remark:**

To follow: 5.2.5

**Water hazard class**

**WGK:**

2 - deutlich wassergefährdend

**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**

Lister over stoffer og processer, der anses for at være kræftfremkaldende

 **[FR] National regulations**

**Other regulations, restrictions and prohibition regulations**

Tableaux de maladies professionnelles  
 Nomenclature des installations classées pour la protection de l'environnement



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 **[NL] National regulations**

**Other regulations, restrictions and prohibition regulations**

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

 **[CH] National regulations**

**Other regulations, restrictions and prohibition regulations**

Mengenschwelle (Schweiz - StFV)  
 Gefahrencode  
 Brandverhütung, BVD (Schweiz)

**15.2. Chemical Safety Assessment**

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

**SECTION 16: Other information**

\* **16.1. Indication of changes**

1.1.	Product identifier
1.4.	Emergency telephone number
2.1.	Classification of the substance or mixture
2.2.	Label elements
2.3.	Other hazards
3.2.	Mixtures
4.1.	Description of first aid measures
4.2.	Most important symptoms and effects, both acute and delayed
6.1.	Personal precautions, protective equipment and emergency procedures
6.3.	Methods and material for containment and cleaning up
7.1.	Precautions for safe handling
8.1.	Control parameters
8.2.	Exposure controls
8.3.	Additional information
9.1.	Information on basic physical and chemical properties
9.2.	Other information
10.5.	Incompatible materials
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
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
16.1.	Indication of changes
16.4.	Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]
16.5.	Relevant R-, H- and EUH-phrases (Number and full text)

**16.2. Abbreviations and acronyms**

See overview table at [www.euphrac.eu](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**

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



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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	Hazard statements	Classification procedure
Respiratory or skin sensitisation ( <i>Skin Sens. 1</i> )	H317: May cause an allergic skin reaction.	Calculation method.
Hazardous to the aquatic environment ( <i>Aquatic Chronic 3</i> )	H412: Harmful to aquatic life with long lasting effects.	Calculation method.

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

Hazard statements	
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H360F	May damage fertility.
H373	May cause damage to organs through prolonged or repeated exposure. (...)
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

**16.6. Training advice**

No data available

**16.7. Additional information**

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

\* Data changed compared with the previous version