



Revision date: 5 May 2021 Version: 5 Print date: 5 May 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 Outboardoel 4T SAE 10W-30

Article No.:

1153203

#### 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]:

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: -

##### Supplemental hazard information

EUH210 Safety data sheet available on request.

Precautionary statements: -

#### \* 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.: 36878-20-3 EC No.: 253-249-4 REACH No.: 01-2119488911-28	<b>bis(nonylphenyl)amine</b> Aquatic Chronic 4 H413	1 - < 2 weight-%
CAS No.: 91-20-3 EC No.: 202-049-5	<b>naphthalene</b> Acute Tox. 4, Aquatic Acute 1, Aquatic Chronic 1, Carc. 2 <b>Warning</b> H302-H351-H410	0 - < 0.01 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.

### \* 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.



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#### 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:**

Personal protection equipment: see section 8.

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Do not put any product-impregnated cleaning rags into your trouser pockets. Clear spills immediately. Use appropriate container to avoid environmental contamination.

**Fire prevent measures:**

No special fire protection measures are necessary.

**Environmental precautions:**

Shafts and sewers must be protected from entry of the product.

**Advices on general occupational hygiene**

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

#### 7.2. Conditions for safe storage, including any incompatibilities

**Technical measures and storage conditions:**

Keep container tightly closed in a cool, well-ventilated place.



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**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	diphenylamine CAS No.: 122-39-4 EC No.: 204-539-4	① 10 mg/m <sup>3</sup> ⑤ (einatembare Fraktion, kann über die Haut aufgenommen werden)
BE	diphenylamine CAS No.: 122-39-4 EC No.: 204-539-4	① 10 mg/m <sup>3</sup>
CZ	diphenylamine 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)
NO	diphenylamine CAS No.: 122-39-4 EC No.: 204-539-4	① 5 mg/m <sup>3</sup>
IE	diphenylamine 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	diphenylamine CAS No.: 122-39-4 EC No.: 204-539-4	① 10 mg/m <sup>3</sup>
HTP (FI)	diphenylamine 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	diphenylamine 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	diphenylamine 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)	diphenylamine 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)
MAK (AT)	diphenylamine 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)
DK	diphenylamine CAS No.: 122-39-4 EC No.: 204-539-4	① 5 mg/m <sup>3</sup> ② 10 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
BG	diphenylamine CAS No.: 122-39-4 EC No.: 204-539-4	① 10 mg/m <sup>3</sup>
HR	diphenylamine 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	diphenylamine 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	diphenylamine CAS No.: 122-39-4 EC No.: 204-539-4	① 10 mg/m <sup>3</sup>
Alberta (CA)	diphenylamine CAS No.: 122-39-4 EC No.: 204-539-4	① 10 mg/m <sup>3</sup>
ES	diphenylamine CAS No.: 122-39-4 EC No.: 204-539-4	① 10 mg/m <sup>3</sup>
BC (CA)	diphenylamine CAS No.: 122-39-4 EC No.: 204-539-4	① 10 mg/m <sup>3</sup>
VLA (FR)	diphenylamine CAS No.: 122-39-4 EC No.: 204-539-4	① 10 mg/m <sup>3</sup>
WEL (GB)	diphenylamine 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	diphenylamine 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 možnos tjo prodiranja skozi kožo)
TW	diphenylamine CAS No.: 122-39-4 EC No.: 204-539-4	① 10 mg/m <sup>3</sup>
KR	diphenylamine CAS No.: 122-39-4 EC No.: 204-539-4	① 10 mg/m <sup>3</sup>
IS	diphenylamine CAS No.: 122-39-4 EC No.: 204-539-4	① 5 mg/m <sup>3</sup>
CN	diphenylamine CAS No.: 122-39-4 EC No.: 204-539-4	① 10 mg/m <sup>3</sup>
GR	diphenylamine 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)	diphenylamine 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)
PL	diphenylamine CAS No.: 122-39-4 EC No.: 204-539-4	① 8 mg/m <sup>3</sup> ⑤ (wdychalna frakcja)
NIOSH (US)	diphenylamine CAS No.: 122-39-4 EC No.: 204-539-4	① 10 mg/m <sup>3</sup>
ACGIH (US)	diphenylamine CAS No.: 122-39-4 EC No.: 204-539-4	① 10 mg/m <sup>3</sup> ⑤ (A4)



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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
Québec (CA)	diphenylamine CAS No.: 122-39-4 EC No.: 204-539-4	① 10 mg/m <sup>3</sup>
TRGS 900 (DE)	Solvent naphtha (petroleum), heavy arom. 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 (C9-C14 Aromaten)
VLA (FR)	Solvent naphtha (petroleum), heavy arom. CAS No.: 64742-94-5 EC No.: 265-198-5	① 150 mg/m <sup>3</sup> ⑤ (hydrocarbures, benzène C9-C12)
NO	Solvent naphtha (petroleum), heavy arom. CAS No.: 64742-94-5 EC No.: 265-198-5	① 25 ppm (120 mg/m <sup>3</sup> ) ⑤ (White Spirit (aromatinnhold > 22 %))
CH	Solvent naphtha (petroleum), heavy arom. CAS No.: 64742-94-5 EC No.: 265-198-5	① 100 ppm (525 mg/m <sup>3</sup> ) ⑤ (Testbenzin, Aromatengehalt 10-30%, White Spirit)
MAK (AT)	Solvent naphtha (petroleum), heavy arom. 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)	Solvent naphtha (petroleum), heavy arom. 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 %)
WEL (GB)	Solvent naphtha (petroleum), heavy arom. CAS No.: 64742-94-5 EC No.: 265-198-5	① 500 mg/m <sup>3</sup> ⑤ (Aromatics)
SI	Solvent naphtha (petroleum), heavy arom. CAS No.: 64742-94-5 EC No.: 265-198-5	① 50 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> )



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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
LT	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m <sup>3</sup> ) ⑤ (Kancerogeniēs)
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> )
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> )



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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)
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
bis(nonylphenyl)amine CAS No.: 36878-20-3 EC No.: 253-249-4	5 mg/kg bw/ day	① DNEL worker ② Long-term - dermal, systemic effects
Solvent naphtha (petroleum), heavy arom. CAS No.: 64742-94-5 EC No.: 265-198-5	192 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
Solvent naphtha (petroleum), heavy arom. CAS No.: 64742-94-5 EC No.: 265-198-5	151 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects





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Substance name	DNEL value	① DNEL type ② Exposure route
Solvent naphtha (petroleum), heavy arom. CAS No.: 64742-94-5 EC No.: 265-198-5	32 mg/m <sup>3</sup>	① DNEL Consumer ② Long-term - inhalation, systemic effects
Solvent naphtha (petroleum), heavy arom. CAS No.: 64742-94-5 EC No.: 265-198-5	12.5 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Solvent naphtha (petroleum), heavy arom. CAS No.: 64742-94-5 EC No.: 265-198-5	7.5 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
Solvent naphtha (petroleum), heavy arom. CAS No.: 64742-94-5 EC No.: 265-198-5	7.5 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, 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, systemic effects
naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	25 mg/m <sup>3</sup>	① DNEL worker ② Acute - inhalation, local effects

Substance name	PNEC Value	① PNEC type
bis(nonylphenyl)amine CAS No.: 36878-20-3 EC No.: 253-249-4	412 µg/l	① PNEC aquatic, freshwater
bis(nonylphenyl)amine CAS No.: 36878-20-3 EC No.: 253-249-4	41.2 µg/l	① PNEC aquatic, marine water
bis(nonylphenyl)amine CAS No.: 36878-20-3 EC No.: 253-249-4	1 mg/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. DIN 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.

### 8.2.3. Environmental exposure controls

See section 7. No additional measures necessary.



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## 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 applicable</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	250 °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	857 kg/m <sup>3</sup>	15 °C		
Relative density	<i>not applicable</i>			
Bulk density	<i>not applicable</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 applicable</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	80.2 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, Oxidising agent, Reducing agent

### 10.6. Hazardous decomposition products

Hazardous combustion products: Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)



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## SECTION 11: Toxicological information

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

Substance name	Toxicological information
bis(nonylphenyl)amine CAS No.: 36878-20-3 EC No.: 253-249-4	<b>LD<sub>50</sub> oral:</b> 5,000 g/m <sup>3</sup> (Rat) <b>LD<sub>50</sub> dermal:</b> >2,000 g/m <sup>3</sup> (Rabbit) <b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> >5 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:**

No irritant effect.

**Serious eye damage/irritation:**

No irritant effect.

**Respiratory or skin sensitisation:**

No sensitizing effects known.

**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.

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.

## SECTION 12: Ecological information

### 12.1. Toxicity

Substance name	Toxicological information
bis(nonylphenyl)amine CAS No.: 36878-20-3 EC No.: 253-249-4	<b>LC<sub>50</sub>:</b> >100 mg/l 4 d (fish) <b>EC<sub>50</sub>:</b> >100 mg/l 2 d (crustaceans) <b>EC<sub>50</sub>:</b> 600 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.

**Additional ecotoxicological information:**

Do not allow uncontrolled discharge of product into the environment.

### 12.2. Persistence and degradability

Substance name	Biodegradation	Remark
bis(nonylphenyl)amine	—	



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Substance name	Biodegradation	Remark
CAS No.: 36878-20-3 EC No.: 253-249-4		

**Biodegradation:**

Not readily biodegradable (according to OECD criteria)

**12.3. Bioaccumulative potential**

Substance name	Log K <sub>OW</sub>	Bioconcentration factor (BCF)
bis(nonylphenyl)amine CAS No.: 36878-20-3 EC No.: 253-249-4	7.6	1,584.89

**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**

Substance name	Results of PBT and vPvB assessment
bis(nonylphenyl)amine CAS No.: 36878-20-3 EC No.: 253-249-4	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.

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

\* **12.6. 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**

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.



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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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<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			

<b>14.5. Environmental hazards</b>			
not relevant			

<b>14.6. Special precautions for user</b>			
not relevant			

<b>14.7. Maritime transport in bulk according to IMO instruments</b>			
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):**  
 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**

**Störfallverordnung**  
**for substances contained in the product:**  
 This product is not assigned to a hazard category.

**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

**Berufgenossenschaftliche Vorschriften (DGUV-Vorschriften)**  
 Berufgenossenschaftliche Informationen (DGUV-Informationen) 868  
 Berufgenossenschaftliche 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



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 **[FR] National regulations**

**Other regulations, restrictions and prohibition regulations**

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

 **[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.

**15.3. Additional information**

No data available.

**SECTION 16: Other information**

\* **16.1. Indication of changes**

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
4.3.	Indication of any immediate medical attention and special treatment needed
6.1.	Personal precautions, protective equipment and emergency procedures
7.1.	Precautions for safe handling
8.1.	Control parameters
9.1.	Information on basic physical and chemical properties
9.2.	Other information
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
11.2.	Information on other hazards
12.6.	Endocrine disrupting properties
12.7.	Other adverse effects
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]

**16.2. 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 2.4: Documentation and Information Centre substances hazardous to water Rigoletto (catalog substances hazardous to water)



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\* **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]:**

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

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

Hazard statements	
H302	Harmful if swallowed.
H351	Suspected of causing cancer.
H410	Very toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

**16.6. Training advice**

No data available

**16.7. Additional information**

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

\* Data changed compared with the previous version