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

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

1.1. Product identifier

Trade name/designation:

RAVENOL ATF 8HP Fluid

Article No.:

1211124

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

Use of the substance/mixture:

Lubricant

1.3. Details of the supplier of the safety data sheet

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

Ravensberger Schmierstoffvertrieb GmbH

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

EUH208	Contains 4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

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	Distillates (petroleum), hydrotreated heavy paraffinic; Base oil - not specified Asp. Tox. 1 (H304) Danger	40 - < 67 weight-%
CAS No.: 68649-11-6 EC No.: 500-228-5 REACH No.: 01-2119493069-28	Dec-1-ene, dimers, hydrogenated Acute Tox. 4 (H332), Asp. Tox. 1 (H304) Danger	4 - < 8 weight-%
CAS No.: 64742-56-9 EC No.: 265-159-2 REACH No.: 01-2119480132-48	Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil-unspecified Asp. Tox. 1 (H304) Danger	0 - < 1.2 weight-%
CAS No.: 72623-87-1 EC No.: 276-738-4 REACH No.: 01-2119474889-13	Schmieröle (Erdöl), C20-50-, mit Wasserstoff behandelte neutrale aus Öl Asp. Tox. 1 (H304) Danger Specific concentration limit (SCL) Asp. Tox. 1; H304: 0% ≤ C < 100%	0 - < 1.2 weight-%
CAS No.: 125643-61-0 EC No.: 406-040-9 Index No.: 607-530-00-7 REACH No.: 01-0000015551-76	Isomer mixture of C7-9-alkyl-3- (3,5-di-trans-butyl-4-hydroxyphenyl) propionate Aquatic Chronic 4 (H413)	0 - < 1.2 weight-%
CAS No.: 72623-86-0 EC No.: 276-737-9 REACH No.: 01-2119474878-16	Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based Asp. Tox. 1 (H304) Danger	0 - < 1.2 weight-%
CAS No.: 192268-65-8 EC No.: 421-820-9	Gemisch aus: Triphenylthio-phosphat und tertiären butylierten Phenylderivaten Aquatic Chronic 4 (H413), Repr. 2 (H361d) Warning	0 - < 0.45 weight-%
EC No.: 424-820-7 REACH No.: 01-0000017126-75	Reaction product of alkylthioalcohol and substituted phosphorus compound Acute Tox. 4 (H312), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Skin Corr. 1B (H314) Danger M-factor (acute): 10 M-factor (chronic): 10	0 - < 0.3 weight-%
CAS No.: 93882-40-7 EC No.: 299-434-3 REACH No.: 01-2120735527-50	4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate Aquatic Chronic 2 (H411), Eye Irrit. 2 (H319), Skin Sens. 1 (H317) Warning	0 - < 0.12 weight-%
CAS No.: 91-20-3 EC No.: 202-049-5 Index No.: 601-052-00-2	naphthalene Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Carc. 2 (H351) Warning	0 - ≤ 0.0012 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**

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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 (CO2)

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 (CO2), Nitrogen oxides (NOx),

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

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Protective clothing.

5.4. Additional information

Do not inhale explosion and combustion gases. Move undamaged containers from immediate hazard area if it can be done safely. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

* **6.1. Personal precautions, protective equipment and emergency procedures**

6.1.1. For non-emergency personnel

Personal precautions:

Use personal protection equipment. Special danger of slipping by leaking/spilling product.

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.



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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) from 1 Dec 2011	Dec-1-ene, dimers, hydrogenated CAS No.: 68649-11-6 EC No.: 500-228-5	① 5 mg/m ³ ② 20 mg/m ³ ⑤ (alveolengängige Fraktion) Y, DFG
SI from 4 Dec 2018	Dec-1-ene, dimers, hydrogenated CAS No.: 68649-11-6 EC No.: 500-228-5	① 5 mg/m ³ ② 20 mg/m ³ ⑤ (alveolarna frakcija) Y
PL from 12 Jun 2018	Schmieröle (Erdöl), C20-50-, mit Wasserstoff behandelte neutrale aus Öl CAS No.: 72623-87-1 EC No.: 276-738-4	① 5 mg/m ³ ⑤ (Mgła olejowa mineralny)
MAK (AT)	Schmieröle (Erdöl), C20-50-, mit Wasserstoff behandelte neutrale aus Öl CAS No.: 72623-87-1 EC No.: 276-738-4	① 5 mg/m ³ ⑤ (Ölnebel, mineralisch (einatembare Fraktion))
BE	Schmieröle (Erdöl), C20-50-, mit Wasserstoff behandelte neutrale aus Öl CAS No.: 72623-87-1 EC No.: 276-738-4	① 5 mg/m ³ ⑤ (Brouillard d'huile minéral)
Québec (CA)	Schmieröle (Erdöl), C20-50-, mit Wasserstoff behandelte neutrale aus Öl CAS No.: 72623-87-1 EC No.: 276-738-4	① 5 mg/m ³ ② 10 mg/m ³ ⑤ (Oil mist mineral)
HU from 28 May 2022	Schmieröle (Erdöl), C20-50-, mit Wasserstoff behandelte neutrale aus Öl CAS No.: 72623-87-1 EC No.: 276-738-4	① 5 mg/m ³ ⑤ (Olajköd ásványi) T
SE	Schmieröle (Erdöl), C20-50-, mit Wasserstoff behandelte neutrale aus Öl CAS No.: 72623-87-1 EC No.: 276-738-4	① 1 mg/m ³ ② 3 mg/m ³ ⑤ (Oljeånga eller rök)
ES	Schmieröle (Erdöl), C20-50-, mit Wasserstoff behandelte neutrale aus Öl CAS No.: 72623-87-1 EC No.: 276-738-4	① 5 mg/m ³ ② 10 mg/m ³ ⑤ (Niebla de aceite mineral) am
NL	Schmieröle (Erdöl), C20-50-, mit Wasserstoff behandelte neutrale aus Öl CAS No.: 72623-87-1 EC No.: 276-738-4	① 5 mg/m ³ ⑤ (Olienevel mineraal)
OSHA (US)	Schmieröle (Erdöl), C20-50-, mit Wasserstoff behandelte neutrale aus Öl CAS No.: 72623-87-1 EC No.: 276-738-4	① 5 mg/m ³ ⑤ (Oil mist mineral)
NIOSH (US)	Schmieröle (Erdöl), C20-50-, mit Wasserstoff behandelte neutrale aus Öl CAS No.: 72623-87-1 EC No.: 276-738-4	① 5 mg/m ³ ② 10 mg/m ³ ⑤ (Oil mist mineral)
ACGIH (US) from 1 Jan 2010	Schmieröle (Erdöl), C20-50-, mit Wasserstoff behandelte neutrale aus Öl CAS No.: 72623-87-1 EC No.: 276-738-4	① 5 mg/m ³ ⑤ (Oil mist mineral, inhalable fraction)
CZ	Schmieröle (Erdöl), C20-50-, mit Wasserstoff behandelte neutrale aus Öl CAS No.: 72623-87-1 EC No.: 276-738-4	① 5 mg/m ³ ② 10 mg/m ³ ⑤ (Rozprášený olej (olejová mlhovina) minerální)



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NO	Schmieröle (Erdöl), C20-50-, mit Wasserstoff behandelte neutrale aus Öl CAS No.: 72623-87-1 EC No.: 276-738-4	① 1 mg/m ³ ⑤ (Oljetåke mineralsk)
NPEL (SK) from 23 Nov 2011	Schmieröle (Erdöl), C20-50-, mit Wasserstoff behandelte neutrale aus Öl CAS No.: 72623-87-1 EC No.: 276-738-4	① 5 ppm (1 mg/m ³) ② 15 ppm (3 mg/m ³) ⑤ (Olejová hmlovina minerálny)
Alberta (CA)	Schmieröle (Erdöl), C20-50-, mit Wasserstoff behandelte neutrale aus Öl CAS No.: 72623-87-1 EC No.: 276-738-4	① 5 mg/m ³ ② 10 mg/m ³ ⑤ (Oil mist mineral)
HTP (FI)	Schmieröle (Erdöl), C20-50-, mit Wasserstoff behandelte neutrale aus Öl CAS No.: 72623-87-1 EC No.: 276-738-4	① 5 mg/m ³ ⑤ (Öljysumu)
LT	Schmieröle (Erdöl), C20-50-, mit Wasserstoff behandelte neutrale aus Öl CAS No.: 72623-87-1 EC No.: 276-738-4	① 1 mg/m ³ ② 3 mg/m ³ ⑤ (Tepalo rūkas arba dūmai)
BC (CA) from 1 Jan 2007	Schmieröle (Erdöl), C20-50-, mit Wasserstoff behandelte neutrale aus Öl CAS No.: 72623-87-1 EC No.: 276-738-4	① 0.2 mg/m ³ ⑤ (Oil mist mineral) 1
MY from 1 Jan 2000	Schmieröle (Erdöl), C20-50-, mit Wasserstoff behandelte neutrale aus Öl CAS No.: 72623-87-1 EC No.: 276-738-4	① 5 mg/m ³ ⑤ (Kabus minyak mineral)
BC (CA) from 1 Jan 2007	Schmieröle (Erdöl), C20-50-, mit Wasserstoff behandelte neutrale aus Öl CAS No.: 72623-87-1 EC No.: 276-738-4	① 1 mg/m ³ ⑤ (Oil mist mineral, severely refined)
TW	Schmieröle (Erdöl), C20-50-, mit Wasserstoff behandelte neutrale aus Öl CAS No.: 72623-87-1 EC No.: 276-738-4	① 5 mg/m ³ ⑤ (###)
GR from 1 Oct 2016	Schmieröle (Erdöl), C20-50-, mit Wasserstoff behandelte neutrale aus Öl CAS No.: 72623-87-1 EC No.: 276-738-4	① 5 mg/m ³ ⑤ (Εκκνέφωμα λαδιού, ορυκτό)
MY from 1 Jan 2000	Schmieröle (Erdöl), C20-50-, mit Wasserstoff behandelte neutrale aus Öl CAS No.: 72623-87-1 EC No.: 276-738-4	① 10 mg/m ³ ⑤ (Kabus minyak, vegetal)
RO from 21 Aug 2018	Schmieröle (Erdöl), C20-50-, mit Wasserstoff behandelte neutrale aus Öl CAS No.: 72623-87-1 EC No.: 276-738-4	① 5 mg/m ³ ② 10 mg/m ³ ⑤ (Ceata uleioasa mineral)
CH from 1 Jan 2022	Schmieröle (Erdöl), C20-50-, mit Wasserstoff behandelte neutrale aus Öl CAS No.: 72623-87-1 EC No.: 276-738-4	① 5 mg/m ³ ⑤ (einatembare Fraktion) C2; Tox: Lunge; Messmeth: NIOSH DFG
LV from 12 Jul 2018	Schmieröle (Erdöl), C20-50-, mit Wasserstoff behandelte neutrale aus Öl CAS No.: 72623-87-1 EC No.: 276-738-4	① 5 mg/m ³ ⑤ (Eļļas migla)
JP	Schmieröle (Erdöl), C20-50-, mit Wasserstoff behandelte neutrale aus Öl CAS No.: 72623-87-1 EC No.: 276-738-4	① 3 mg/m ³ ⑤ (#####)



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IDLH (US) from 1 Jan 1994	Schmieröle (Erdöl), C20-50-, mit Wasserstoff behandelte neutrale aus Öl CAS No.: 72623-87-1 EC No.: 276-738-4	① 2,500 mg/m ³
IE from 1 Apr 2016	Schmieröle (Erdöl), C20-50-, mit Wasserstoff behandelte neutrale aus Öl CAS No.: 72623-87-1 EC No.: 276-738-4	① 5 mg/m ³ ⑤ (Oil mist mineral, inhalable fraction)
TRGS 900 (DE) from 30 Nov 2017	Solvent naphtha (petroleum), heavy arom. CAS No.: 64742-94-5 EC No.: 265-198-5	① 50 mg/m ³ ② 100 mg/m ³ 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 ³ 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 ³) ⑤ (White Spirit (aromatinnhold > 22 %))
CH from 1 Jan 2022	Solvent naphtha (petroleum), heavy arom. CAS No.: 64742-94-5 EC No.: 265-198-5	① 100 ppm (525 mg/m ³) ⑤ Messmeth: OSHA
MAK (AT)	Solvent naphtha (petroleum), heavy arom. CAS No.: 64742-94-5 EC No.: 265-198-5	① 20 mL/m ³ ② 40 mL/m ³ 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 ³ ② 140 mL/m ³ 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 ³ ⑤ (Aromatics)
SI from 4 Dec 2018	Solvent naphtha (petroleum), heavy arom. CAS No.: 64742-94-5 EC No.: 265-198-5	① 50 mg/m ³
CH from 1 Jan 2022	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³) ⑤ (Dampf und Aerosol; kann über die Haut aufgenommen werden) H C2; Tox: Blut OAW Auge; Messmeth: NIOSH OSHA
BE	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (53 mg/m ³) ② 15 ppm (80 mg/m ³) ⑤ (peut être absorbé par la peau) D
CZ from 1 Mar 2020	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 9.4 ppm (50 mg/m ³) ② 18.8 ppm (100 mg/m ³)
PL from 12 Jun 2018	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 20 mg/m ³ ② 50 mg/m ³ ⑤ (może przenikać przez skórę do organizmu) skóra



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NO	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³) ⑤ E
IE from 17 Jan 2020	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³) ⑤ IOELV
HTP (FI)	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 1 ppm (5 mg/m ³) ② 2 ppm (10 mg/m ³)
LT	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³) ⑤ (Kanceroginés) K
SE	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³) ③ 15 ppm (80 mg/m ³)
NPEL (SK) from 23 Nov 2011	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³) ② 15 ppm (80 mg/m ³) ⑤ K
TRGS 900 (DE) from 23 Jun 2022	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 0.4 ppm (2 mg/m ³) ② 1.6 ppm (8 mg/m ³) ⑤ (Aerosol und Dampf, kann über die Haut aufgenommen werden) AGS, H, Y, EU, 11, 27
DK	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³) ② 20 ppm (100 mg/m ³) ⑤ EK
BG	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 50 mg/m ³ ② 75 mg/m ³
HR	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³)
ES	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (53 mg/m ³) ② 15 ppm (80 mg/m ³) ⑤ (puede ser absorbido a través dérmica) vía dérmica, VLI
RO from 21 Aug 2018	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³) ⑤ C2
EE	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³)
LV	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³)
Alberta (CA) from 1 Dec 2021	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (52 mg/m ³) ② 15 ppm (79 mg/m ³) ⑤ (may be absorbed through the skin) 1
BC (CA) from 1 Jun 2018	naphthalene 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	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (52 mg/m ³)
IOELV (EU)	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³)



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VLA (FR)	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³)
SI from 4 Dec 2018	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 50 mg/m ³ ② 50 mg/m ³ ⑤ (frakcija ki jo je mogoče vdihniti računati je treba z možnostjo prodiranja skozi kožo) K, Y, EU0
TW	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (52 mg/m ³)
KR	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³) ② 15 ppm (75 mg/m ³)
IS	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³)
CN from 1 Apr 2020	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 50 mg/m ³ ② 75 mg/m ³ ⑤ (#####)
RU	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	③ 20 mg/m ³
HU	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 50 mg/m ³ ⑤ i
GR from 1 Oct 2016	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³)
NL	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 50 mg/m ³ ② 80 mg/m ³
NL from 1 Jan 2023	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³) ② 16 ppm (80 mg/m ³)
MAK (AT)	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³) ⑤ (kann über die Haut aufgenommen werden) III B, H
SI from 4 Dec 2018	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) K, Y, EU0
TR	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³)
IDLH (US) from 1 Jan 1994	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 250 ppm
Québec (CA) from 1 Apr 2022	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm ⑤ (may be absorbed through the skin)
OSHA (US)	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³)
NIOSH (US)	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³) ② 15 ppm (75 mg/m ³)



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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
ACGIH (US)	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (52 mg/m ³) ② 15 ppm (79 mg/m ³) 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
Dec-1-ene, dimers, hydrogenated CAS No.: 68649-11-6 EC No.: 500-228-5	60 mg/m ³	① DNEL worker ② Acute - inhalation, systemic effects
Isomer mixture of C7-9-alkyl-3- (3,5-di-trans-butyl-4-hydroxyphenyl) propionate CAS No.: 125643-61-0 EC No.: 406-040-9	2.33 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based CAS No.: 72623-86-0 EC No.: 276-737-9	2.73 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based CAS No.: 72623-86-0 EC No.: 276-737-9	5.58	① DNEL worker ② Long-term - inhalation, local effects
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based CAS No.: 72623-86-0 EC No.: 276-737-9	0.97 mg/kg	① DNEL worker ② Long-term - dermal, systemic effects
Gemisch aus: Triphenylthio-phosphat und tertiären butylierten Phenylderivaten CAS No.: 192268-65-8 EC No.: 421-820-9	1.2 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Reaction products of fatty acids, C14-C18 (branched and linear) and C18 (unsaturated) with tetraethylenepentamine (linear, branched, cyclic) EC No.: 701-204-9	11.75 mg/cm ²	① DNEL worker ② Long-term - inhalation, systemic effects
Reaction products of fatty acids, C14-C18 (branched and linear) and C18 (unsaturated) with tetraethylenepentamine (linear, branched, cyclic) EC No.: 701-204-9	3.33 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich CAS No.: 398141-87-2 EC No.: 800-172-4	24.7 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich CAS No.: 398141-87-2 EC No.: 800-172-4	350 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Reaction product of alkylthioalcohol and substituted phosphorus compound EC No.: 424-820-7	1.76 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects



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Substance name	DNEL value	① DNEL type ② Exposure route
Reaction product of alkylthioalcohol and substituted phosphorus compound EC No.: 424-820-7	0.5 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate CAS No.: 93882-40-7 EC No.: 299-434-3	3.526 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate CAS No.: 93882-40-7 EC No.: 299-434-3	2 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Reaction products of 2,5-dimercapto-1,3,4-thiadiazole, sodium salt, with 1-octanethiol and hydrogen peroxide EC No.: 948-020-7	5.43 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Reaction products of 2,5-dimercapto-1,3,4-thiadiazole, sodium salt, with 1-octanethiol and hydrogen peroxide EC No.: 948-020-7	1.54 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 ³	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 ³	① DNEL worker ② Long-term - inhalation, systemic effects
Solvent naphtha (petroleum), heavy arom. CAS No.: 64742-94-5 EC No.: 265-198-5	32 mg/m ³	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 ³	① DNEL worker ② Long-term - inhalation, systemic effects
naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	25 mg/m ³	① DNEL worker ② Acute - inhalation, local effects
Substance name	PNEC Value	① PNEC type
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based CAS No.: 72623-86-0 EC No.: 276-737-9	9.99 mg/kg	① PNEC secondary poisoning
Reaction products of fatty acids, C14-C18 (branched and linear) and C18 (unsaturated) with tetraethylenepentamine (linear, branched, cyclic) EC No.: 701-204-9	460 µg/L	① PNEC aquatic, freshwater



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Substance name	PNEC Value	① PNEC type
Reaction products of fatty acids, C14-C18 (branched and linear) and C18 (unsaturated) with tetraethylenepentamine (linear, branched, cyclic) EC No.: 701-204-9	46 µg/L	① PNEC aquatic, marine water
Reaction products of fatty acids, C14-C18 (branched and linear) and C18 (unsaturated) with tetraethylenepentamine (linear, branched, cyclic) EC No.: 701-204-9	1,000 mg/L	① PNEC sewage treatment plant
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkoxy) derivs., C10-rich CAS No.: 398141-87-2 EC No.: 800-172-4	2.4 µg/L	① PNEC aquatic, freshwater
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkoxy) derivs., C10-rich CAS No.: 398141-87-2 EC No.: 800-172-4	0.33 µg/L	① PNEC aquatic, marine water
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkoxy) derivs., C10-rich CAS No.: 398141-87-2 EC No.: 800-172-4	100 mg/L	① PNEC sewage treatment plant
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkoxy) derivs., C10-rich CAS No.: 398141-87-2 EC No.: 800-172-4	0.433 mg/kg	① PNEC sediment, freshwater
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkoxy) derivs., C10-rich CAS No.: 398141-87-2 EC No.: 800-172-4	0.0596 mg/kg	① PNEC soil, marine water
Reaction product of alkylthioalcohol and substituted phosphorus compound EC No.: 424-820-7	0.9 µg/L	① PNEC aquatic, freshwater
Reaction product of alkylthioalcohol and substituted phosphorus compound EC No.: 424-820-7	0.09 µg/L	① PNEC aquatic, marine water
Reaction product of alkylthioalcohol and substituted phosphorus compound EC No.: 424-820-7	5 mg/L	① PNEC sewage treatment plant
Reaction product of alkylthioalcohol and substituted phosphorus compound EC No.: 424-820-7	0.159 mg/kg bw/day	① PNEC sediment, freshwater
Reaction product of alkylthioalcohol and substituted phosphorus compound EC No.: 424-820-7	0.0159 mg/kg bw/day	① PNEC sediment, marine water
4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate CAS No.: 93882-40-7 EC No.: 299-434-3	9.5 µg/L	① PNEC aquatic, freshwater
4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate CAS No.: 93882-40-7 EC No.: 299-434-3	0.95 µg/L	① PNEC aquatic, marine water
4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate CAS No.: 93882-40-7 EC No.: 299-434-3	100 mg/L	① PNEC sewage treatment plant



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Substance name	PNEC Value	① PNEC type
4,4'-thiodiethylene hydrogen -2-octadeceny succinate CAS No.: 93882-40-7 EC No.: 299-434-3	95 µg/L	① PNEC aquatic, intermittent release
Distillates (petroleum), solvent-refined heavy paraffinic CAS No.: 64741-88-4 EC No.: 265-090-8	9.33 mg/kg	① PNEC secondary poisoning

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: ≥ 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.

SECTION 9: Physical and chemical properties

* 9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: green

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	208 °C		
Evaporation rate	<i>No data available</i>		
Auto-ignition temperature	<i>No data available</i>		
Upper/lower flammability or explosive limits	<i>not applicable</i>		
Vapour pressure	<i>No data available</i>		
Vapour density	<i>not applicable</i>		
Density	838 kg/m ³	15 °C	



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Parameter	Value	at °C	① Method ② Remark
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	26 mm ² /s	40 °C	

* **9.2. Other information**

Not applicable

SECTION 10: Stability and reactivity

* **10.1. Reactivity**

No known hazardous reactions.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

To avoid thermal decomposition do not overheat.

10.5. Incompatible materials

Materials to avoid: Acid, Oxidising agent, Reducing agent

* **10.6. Hazardous decomposition products**

Hazardous combustion products: Carbon monoxide, Carbon dioxide (CO₂), Nitrogen oxides (NO_x),
 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

Distillates (petroleum), hydrotreated heavy paraffinic; Base oil - not specified CAS No.: 64742-54-7 EC No.: 265-157-1
LD₅₀ oral: 5,000 mg/kg (Rat) OECD 401
LD₅₀ dermal: 5,000 mg/kg (Rabbit) OECD 402
LC₅₀ Acute inhalation toxicity (dust/mist): 5.53 mg/L 4 h (Rat) OECD 403
Dec-1-ene, dimers, hydrogenated CAS No.: 68649-11-6 EC No.: 500-228-5
LD₅₀ oral: >2,000 - <5,000 mg/kg (Rat)
LD₅₀ dermal: >2,000 mg/kg (Rabbit)
LC₅₀ Acute inhalation toxicity (dust/mist): >1.1 - <1.4 mg/L 4 h (Rat)
Schmieröle (Erdöl), C20-50-, mit Wasserstoff behandelte neutrale aus Öl CAS No.: 72623-87-1 EC No.: 276-738-4
LD₅₀ oral: ≥5,000 mg/kg
LD₅₀ dermal: ≥2,000 mg/kg
LC₅₀ Acute inhalation toxicity (dust/mist): ≥5 mg/L
Isomer mixture of C7-9-alkyl-3- (3,5-di-trans-butyl-4-hydroxyphenyl) propionate CAS No.: 125643-61-0 EC No.: 406-040-9
LD₅₀ oral: >2,000 mg/kg (Ratte)
LD₅₀ dermal: >2,000 mg/kg (Ratte)
LC₅₀ Acute inhalation toxicity (dust/mist): >5 mg/L



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Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	CAS No.: 72623-86-0	EC No.: 276-737-9
LD₅₀ oral: 5,000 mg/kg (Rat)		
LD₅₀ dermal: >2,000 mg/kg (rabbit)		
LC₅₀ Acute inhalation toxicity (dust/mist): >5.53 mg/L 4 h		
Reaction product of alkylthioalcohol and substituted phosphorus compound	EC No.: 424-820-7	
LD₅₀ oral: 2,000 mg/kg (rat)		
LD₅₀ dermal: 500 mg/kg (rabbit)		
4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate	CAS No.: 93882-40-7	EC No.: 299-434-3
LD₅₀ oral: 10,000 mg/kg (rat)		
LD₅₀ dermal: 3,160 mg/kg (rabbit)		
naphthalene	CAS No.: 91-20-3	EC No.: 202-049-5
LD₅₀ oral: >2,000 mg/kg (rat) OECD Guideline 401 (Acute Oral Toxicity)		
LD₅₀ dermal: >2,500 mg/kg (rat)		
LC₅₀ Acute inhalation toxicity (vapour): >0.4 mg/L 4 h (rat)		

Acute oral toxicity:

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

Acute dermal toxicity:

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

Acute inhalation toxicity:

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

Skin corrosion/irritation:

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

Serious eye damage/irritation:

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

Respiratory or skin sensitisation:

Contains 4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate. May produce an allergic reaction.

Germ cell mutagenicity:

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

Carcinogenicity:

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

Reproductive toxicity:

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

STOT-single exposure:

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

STOT-repeated exposure:

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

Aspiration hazard:

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

Additional information:

No data available

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**

Distillates (petroleum), hydrotreated heavy paraffinic; Base oil - not specified	CAS No.: 64742-54-7
EC No.: 265-157-1	
LC₅₀: 100 mg/L 4 d (fish)	
LC₅₀: 10,000 mg/L 4 d (crustaceans)	
EC₅₀: 10,000 mg/L 2 d (crustaceans)	
NOEC: 100 mg/L 4 d (fish)	
NOEC: 100 mg/L 3 d (Algae/water plant)	
NOEC: ≥100 mg/L 3 d (Algae/water plant, Algen)	



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Schmieröle (Erdöl), C20-50-, mit Wasserstoff behandelte neutrale aus Öl CAS No.: 72623-87-1 EC No.: 276-738-4
LC₅₀ : ≥100 mg/L 4 d (fish)
EC₅₀ : ≥10,000 mg/L 2 d (crustaceans)
NOEC : ≥10 mg/L 21 d (crustaceans)
ErC₅₀ : ≥100 mg/L 3 d (Algae/water plant)
Isomer mixture of C7-9-alkyl-3- (3,5-di-trans-butyl-4-hydroxyphenyl) propionate CAS No.: 125643-61-0 EC No.: 406-040-9
EC₅₀ : >100 mg/L 2 d (crustaceans, Daphnie)
NOEC : >3 mg/L 3 d (Algae/water plant, Alge)
Reaction product of alkylthioalcohol and substituted phosphorus compound EC No.: 424-820-7
LC₅₀ : 1.5 mg/L 4 d (fish)
EC₅₀ : 0.09 mg/L 2 d (crustaceans)
EC₅₀ : 0.31 mg/L 3 d (Algae/water plant)
4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate CAS No.: 93882-40-7 EC No.: 299-434-3
LC₅₀ : 100 mg/L 4 d (fish)
EC₅₀ : 9.5 mg/L 2 d (crustaceans)
NOEC : 100 mg/L 3 d (Algae/water plant)
naphthalene CAS No.: 91-20-3 EC No.: 202-049-5
LC₅₀ : 6.08 mg/L 3 d (fish, Pimephales promelas)
LC₅₀ : 1.2 mg/L 4 d (fish, Oncorhynchus gorboscha)
LC₅₀ : 6.35 mg/L 2 d (fish, Pimephales promelas)
EC₅₀ : 2.16 mg/L 2 d (crustaceans, Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
NOEC : 0.12 mg/L 40 d (fish, Oncorhynchus gorboscha)
LOEC : 0.38 mg/L 40 d (fish, Oncorhynchus gorboscha)

Assessment/classification:

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

Additional ecotoxicological information:

Do not allow uncontrolled discharge of product into the environment.

* **12.2. Persistence and degradability**

Dec-1-ene, dimers, hydrogenated CAS No.: 68649-11-6 EC No.: 500-228-5
Biodegradation: Yes, rapidly
Schmieröle (Erdöl), C20-50-, mit Wasserstoff behandelte neutrale aus Öl CAS No.: 72623-87-1 EC No.: 276-738-4
Biodegradation: Yes, slowly

Additional information:

The product has not been tested.

* **12.3. Bioaccumulative potential**

Dec-1-ene, dimers, hydrogenated CAS No.: 68649-11-6 EC No.: 500-228-5
Log K_{OW} : 6.5
Schmieröle (Erdöl), C20-50-, mit Wasserstoff behandelte neutrale aus Öl CAS No.: 72623-87-1 EC No.: 276-738-4
Log K_{OW} : 6
naphthalene CAS No.: 91-20-3 EC No.: 202-049-5
Log K_{OW} : 3.45

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.



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

Distillates (petroleum), hydrotreated heavy paraffinic; Base oil - not specified CAS No.: 64742-54-7 EC No.: 265-157-1
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
Dec-1-ene, dimers, hydrogenated CAS No.: 68649-11-6 EC No.: 500-228-5
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
Distillates (petroleum), solvent-dewaxed light paraffinic: Baseoil-unspecified CAS No.: 64742-56-9 EC No.: 265-159-2
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
Schmieröle (Erdöl), C20-50-, mit Wasserstoff behandelte neutrale aus Öl CAS No.: 72623-87-1 EC No.: 276-738-4
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
Isomer mixture of C7-9-alkyl-3- (3,5-di-trans-butyl-4-hydroxyphenyl) propionate CAS No.: 125643-61-0 EC No.: 406-040-9
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based CAS No.: 72623-86-0 EC No.: 276-737-9
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
Gemisch aus: Triphenylthio-phosphat und tertiären butylierten Phenylderivaten CAS No.: 192268-65-8 EC No.: 421-820-9
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
Reaction product of alkylthioalcohol and substituted phosphorus compound EC No.: 424-820-7
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate CAS No.: 93882-40-7 EC No.: 299-434-3
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
naphthalene CAS No.: 91-20-3 EC No.: 202-049-5
Results of PBT and vPvB assessment: 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 information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste according to applicable legislation.

Waste treatment options

Appropriate disposal / Product:

Dispose of waste according to applicable legislation.

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)
14.1. UN number or ID number			
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)
14.2. UN proper shipping name			
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.
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precautions for user			
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
 TRGS 900

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



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 **[NL] National regulations**

Other regulations, restrictions and prohibition regulations

Niederlande: Lijst vank kankerverwekkende, mutagene en voor de voortplanting giftige stoffen (SZW)
 Algemeene beoordelingsmethodiek Water (ABM)
 Nederlandse emissierichtlijn (NeR)
 NIET-Limitatieve lijst an voor de voortplanting giftige stoffen - Borstvoeding
 NIET-Limitatieve lijst an voor de voortplanting giftige stoffen - Vruchtbaarheid
 NIET-Limitatieve lijst an voor de voortplanting giftige stoffen - Ontwikkeling
 SZW-lijst van kankerverwekkende stoffen
 SZW-lijst van mutagene stoffen
 Wet van 18 maart 1999, houdende bepalingen ter verbetering van de arbeidsomstandigheden
 (Arbidsomstandighedenwet)
 Wet op de ondernemingsraden 1971

 **[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**

1.4.	Emergency telephone number
2.1.	Classification of the substance or mixture
2.2.	Label elements
2.3.	Other hazards
3.2.	Mixtures
4.2.	Most important symptoms and effects, both acute and delayed
6.1.	Personal precautions, protective equipment and emergency procedures
8.1.	Control parameters
9.1.	Information on basic physical and chemical properties
9.2.	Other information
10.1.	Reactivity
10.6.	Hazardous decomposition products
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
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]
16.5.	List of relevant hazard statements and/or precautionary statements from sections 2 to 15

16.2. Abbreviations and acronyms

See overview table at www.euphrac.eu

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

16.3. Key literature references and sources for data

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



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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)

Substance name	Type	source of supply
naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	LD ₅₀ oral; LD ₅₀ dermal; LC ₅₀ Acute inhalation toxicity (vapour); LC ₅₀ ; EC ₅₀ ; NOEC; LOEC	Source: European Chemicals Agency, http://echa.europa.eu/

* **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	
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

16.6. Training advice

No data available

16.7. Additional information

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

* Data changed compared with the previous version.