

Revision date: 31-Jan-2019 Version: 3 Print date: 31-Jan-2019



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 GHA-F Gearbox Hydraulic Actuator Fluid

Article No.:

1181201

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

D

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
Acute toxicity (inhalative) (Acute Tox. 4)	H332: Harmful if inhaled.	

* 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:

naphthalene; Dec-1-ene, dimers, hydrogenated

hazard statements for health hazards	
H332	Harmful if inhaled.

Supplemental Hazard information (EU): -



Revision date: 31-Jan-2019 Version: 3 Print date: 31-Jan-2019

Precautionary statements Prevention

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.

Precautionary statements Response

P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor/Emergency telephone number if you feel unwell.

Precautionary statements Disposal

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

No data available

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.: 68649-11-6 EC No.: 500-228-5	Dec-1-ene, dimers, hydrogenated Acute Tox. 4, Asp. Tox. 1 H304	20 - < 50 Wt %
CAS No.: 91-20-3 EC No.: 202-049-5	naphthalene Acute Tox. 4, Aquatic Acute 1, Aquatic Chronic 1, Carc. 2 Warning H302-H351-H410	0 - ≤ 0.00005 Wt %

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 place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:

Provide fresh air. Consult a doctor immediately. Harmful if inhaled.

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.

After 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

Harmful if inhaled.

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.



Revision date: 31-Jan-2019 Version: 3 Print date: 31-Jan-2019

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 (CO₂), Nitrogen oxides (NO_x), 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

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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. Remove persons to safety.

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.

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 (e.g. 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.



Revision date: 31-Jan-2019 Version: 3 Print date: 31-Jan-2019

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:

See section 8.

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: 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
DFG (DE)	Dec-1-ene, dimers, hydrogenated CAS No.: 68649-11-6	① 5 mg/m ³ ② 20 mg/m ³ ⑤ (alveolengängige Fraktion)
TRGS 900 (DE)	Solvent naphtha (petroleum), heavy arom. CAS No.: 64742-94-5	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	① 150 mg/m ³ ⑤ (hydrocarbures, benzène C9-C12)
NO	Solvent naphtha (petroleum), heavy arom. CAS No.: 64742-94-5	① 25 ppm (120 mg/m ³) ⑤ (White Spirit (aromatinnhold > 22 %))
CH	Solvent naphtha (petroleum), heavy arom. CAS No.: 64742-94-5	① 100 ppm (525 mg/m ³) ⑤ (Testbenzin, Aromatengehalt 10-30%, White Spirit)



Revision date: 31-Jan-2019 **Version:** 3 **Print date:** 31-Jan-2019

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
MAK (AT)	Solvent naphtha (petroleum), heavy arom. CAS No.: 64742-94-5	① 20 mL/m ³ ② 40 mL/m ³
MAK (AT)	Solvent naphtha (petroleum), heavy arom. CAS No.: 64742-94-5	① 70 mL/m ³ ② 140 mL/m ³
WEL (GB)	Solvent naphtha (petroleum), heavy arom. CAS No.: 64742-94-5	① 500 mg/m ³ ⑤ (Aromatics)
TRGS 900 (DE)	Hydrocarbons, C10, Aromatic s, >1% Naphthalene CAS No.: 64742-94-5	① 50 mg/m ³ ② 100 mg/m ³ ⑤ (C9-C14 Aromaten)
VLA (FR)	Hydrocarbons, C10, Aromatic s, >1% Naphthalene CAS No.: 64742-94-5	① 150 mg/m ³ ⑤ (hydrocarbures, benzène C9-C12)
NO	Hydrocarbons, C10, Aromatic s, >1% Naphthalene CAS No.: 64742-94-5	① 25 ppm (120 mg/m ³) ⑤ (White Spirit (aromatinnhold > 22 %))
CH	Hydrocarbons, C10, Aromatic s, >1% Naphthalene CAS No.: 64742-94-5	① 100 ppm (525 mg/m ³) ⑤ (Testbenzin, Aromatengehalt 10-30%, White Spirit)
MAK (AT)	Hydrocarbons, C10, Aromatic s, >1% Naphthalene CAS No.: 64742-94-5	① 20 mL/m ³ ② 40 mL/m ³
MAK (AT)	Hydrocarbons, C10, Aromatic s, >1% Naphthalene CAS No.: 64742-94-5	① 70 mL/m ³ ② 140 mL/m ³
WEL (GB)	Hydrocarbons, C10, Aromatic s, >1% Naphthalene CAS No.: 64742-94-5	① 500 mg/m ³ ⑤ (Aromatics)
CH	naphthalene CAS No.: 91-20-3	① 10 ppm (50 mg/m ³) ⑤ (kann über die Haut aufgenommen werden)
BE	naphthalene CAS No.: 91-20-3	① 10 ppm (53 mg/m ³) ② 15 ppm (80 mg/m ³)
CZ	naphthalene CAS No.: 91-20-3	① 9.55 ppm (50 mg/m ³) ② 19.1 ppm (100 mg/m ³)
PL	naphthalene CAS No.: 91-20-3	① 20 mg/m ³ ② 50 mg/m ³
NO	naphthalene CAS No.: 91-20-3	① 10 ppm (50 mg/m ³)
IE	naphthalene CAS No.: 91-20-3	① 10 ppm (50 mg/m ³) ② 15 ppm (75 mg/m ³)
FI	naphthalene CAS No.: 91-20-3	① 1 ppm (5 mg/m ³) ② 2 ppm (10 mg/m ³)
LT	naphthalene CAS No.: 91-20-3	① 10 ppm (50 mg/m ³)
SE	naphthalene CAS No.: 91-20-3	① 10 ppm (50 mg/m ³) ③ 15 ppm (80 mg/m ³)
SK	naphthalene CAS No.: 91-20-3	① 10 ppm (50 mg/m ³) ② 15 ppm (80 mg/m ³)
TRGS 900 (DE)	naphthalene CAS No.: 91-20-3	① 0.4 ppm (2 mg/m ³) ② 1.6 ppm (8 mg/m ³) ⑤ (kann über die Haut aufgenommen werden)



Revision date: 31-Jan-2019 **Version:** 3 **Print date:** 31-Jan-2019

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
DK	naphthalene CAS No.: 91-20-3	① 10 ppm (50 mg/m ³) ② 20 ppm (100 mg/m ³)
BG	naphthalene CAS No.: 91-20-3	① 50 mg/m ³ ② 75 mg/m ³
HR	naphthalene CAS No.: 91-20-3	① 10 ppm (50 mg/m ³)
ES	naphthalene CAS No.: 91-20-3	① 10 ppm (53 mg/m ³) ② 15 ppm (80 mg/m ³) ⑤ (puede ser absorbido a través dérmica)
RO	naphthalene CAS No.: 91-20-3	① 9.5 ppm (50 mg/m ³)
EE	naphthalene CAS No.: 91-20-3	① 10 ppm (50 mg/m ³)
LV	naphthalene CAS No.: 91-20-3	① 10 ppm (50 mg/m ³)
Alberta (CA)	naphthalene CAS No.: 91-20-3	① 10 ppm (52 mg/m ³) ② 15 ppm (79 mg/m ³)
BC (CA)	naphthalene CAS No.: 91-20-3	① 10 ppm ⑤ (may be absorbed through the skin)
MY	naphthalene CAS No.: 91-20-3	① 10 ppm (52 mg/m ³)
IOELV (EU)	naphthalene CAS No.: 91-20-3	① 10 ppm (50 mg/m ³)
VLA (FR)	naphthalene CAS No.: 91-20-3	① 10 ppm (50 mg/m ³)
MEL/OES (GB)	naphthalene CAS No.: 91-20-3	① 10 ppm (53 mg/m ³) ② 15 ppm (80 mg/m ³)
SI	naphthalene CAS No.: 91-20-3	① 10 ppm (50 mg/m ³)
TW	naphthalene CAS No.: 91-20-3	① 10 ppm (52 mg/m ³)
KR	naphthalene CAS No.: 91-20-3	① 10 ppm (50 mg/m ³) ② 15 ppm (75 mg/m ³)
IS	naphthalene CAS No.: 91-20-3	① 10 ppm (50 mg/m ³)
CN	naphthalene CAS No.: 91-20-3	① 50 mg/m ³ ② 75 mg/m ³
RU	naphthalene CAS No.: 91-20-3	③ 20 mg/m ³
HU	naphthalene CAS No.: 91-20-3	① 50 mg/m ³
GR	naphthalene CAS No.: 91-20-3	① 10 ppm (50 mg/m ³)
NL	naphthalene CAS No.: 91-20-3	① 50 mg/m ³ ② 80 mg/m ³
MAK (AT)	naphthalene CAS No.: 91-20-3	① 10 ppm (50 mg/m ³) ⑤ (kann über die Haut aufgenommen werden)
Québec (CA)	naphthalene CAS No.: 91-20-3	① 10 ppm (52 mg/m ³) ② 15 ppm (79 mg/m ³)
OSHA (US)	naphthalene CAS No.: 91-20-3	① 10 ppm (50 mg/m ³)
NIOSH (US)	naphthalene CAS No.: 91-20-3	① 10 ppm (50 mg/m ³) ② 15 ppm (75 mg/m ³)



Revision date: 31-Jan-2019 Version: 3 Print date: 31-Jan-2019

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	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
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts CAS No.: 68457-79-4	8.13 mg/m ³	① DNEL worker ② DNEL long-term inhalative (systemic)
Solvent naphtha (petroleum), heavy arom. CAS No.: 64742-94-5	192 mg/m ³	① DNEL worker ② DNEL long-term inhalative (systemic)
Hydrocarbons, C10, Aromatics, >1% Naphthalene CAS No.: 64742-94-5	151 mg/m ³	① DNEL worker ② DNEL long-term inhalative (local)

* 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 (maximum wearing 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.

8.3. Additional information

Mineral oil mist limits:

OSHA PEL - value 5 mg / m³, ACGIH STEL - value of 10 mg / m³



Revision date: 31-Jan-2019 Version: 3 Print date: 31-Jan-2019

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		at °C	Method	Remark
pH	not determined			
Melting point	not determined			
Freezing point	not determined			
Initial boiling point and boiling range	not determined			
Decomposition temperature	not determined			
Flash point	182 °C			
Evaporation rate	not determined			
Auto-ignition temperature	not determined			
Upper/lower flammability or explosive limits	not determined			
Vapour pressure	not determined			
Vapour density	not determined			
Density	820 kg/m ³	20 °C		
Bulk density	not determined			
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	not determined			
Dynamic viscosity	not determined			
Kinematic viscosity	20.9 mm ² /s	40 °C		

9.2. Other information

No data available

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_x)

Further information

No information available.

SECTION 11: Toxicological information

* 11.1. Information on toxicological effects

Acute oral toxicity:

Pamatojoties uz pieejamajiem datiem, klasifikācijas kritēriji nav izpildīti.



Revision date: 31-Jan-2019 Version: 3 Print date: 31-Jan-2019

Acute dermal toxicity:

Pamatojoties uz pieejamajiem datiem, klasifikācijas kritēriji nav izpildīti. .

Acute inhalation toxicity:

Harmful if inhaled.

Skin corrosion/irritation:

No irritant effect.

Frequently or prolonged contact with skin may cause dermal irritation.

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:

Pamatojoties uz pieejamajiem datiem, klasifikācijas kritēriji nav izpildīti.

STOT-repeated exposure:

Pamatojoties uz pieejamajiem datiem, klasifikācijas kritēriji nav izpildīti.

Aspiration hazard:

Observe risk of aspiration if vomiting occurs.

SECTION 12: Ecological information

* **12.1. Toxicity**

Aquatic toxicity:

No information available.

* **12.2. Persistence and degradability**

Abiotic degradation:

No information available.

Biodegradation:

No information available.

* **12.3. Bioaccumulative potential**

Bioconcentration factor (BCF):

No information available.

12.4. Mobility in soil

No information available.

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

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

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

* **13.1. Waste treatment methods**

Dispose of waste according to applicable legislation.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code packaging:

Remark:

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.



Revision date: 31-Jan-2019 Version: 3 Print date: 31-Jan-2019

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)	
14.1. UN-No.			
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.	
14.2. 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.	
14.3. Transport hazard class(es)			
not relevant			
14.4. Packing group			
not relevant			
14.5. Environmental hazards			
not relevant			
14.6. Special precautions for user			
not relevant			

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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

No data available

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:

E1 Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

E2 Hazardous to the aquatic environment in Category Chronic 2

Technische Anleitung Luft (TA-Luft)

Remark:

To follow: 5.2.5.

Water hazard class (WGK)

WGK:

2 - deutlich wassergefährdend

Source:

Self-classification (mixture; calculation rule).

Identification number 436



Revision date: 31-Jan-2019 Version: 3 Print date: 31-Jan-2019

Technische Regeln für Gefahrstoffe

TRGS 510

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

Berufsgenossenschaftliche Vorschriften (BGV)

Berufsgenossenschaftliche Informationen (BGI) 868

Berufsgenossenschaftliche Regeln (BGR) 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

[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

1.3.	Details of the supplier of the safety data sheet
1.4.	Emergency telephone number
2.2.	Label elements
3.2.	Mixtures
4.1.	Description of first aid measures
6.1.	Personal precautions, protective equipment and emergency procedures
8.1.	Control parameters
8.2.	Exposure controls
9.1.	Information on basic physical and chemical properties
10.6.	Hazardous decomposition products
11.1.	Information on toxicological effects
12.1.	Toxicity
12.2.	Persistence and degradability
12.3.	Bioaccumulative potential
12.5.	Results of PBT and vPvB assessment
13.1.	Waste treatment methods
14.1.	UN number
14.2.	UN proper shipping name
14.7.	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
16.1.	Indication of changes
16.5.	Relevant R-, H- and EUH-phrases (Number and full text)



Revision date: 31-Jan-2019 **Version:** 3 **Print date:** 31-Jan-2019

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

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)

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
Acute toxicity (inhalative) (Acute Tox. 4)	H332: Harmful if inhaled.	

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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.
H351	Suspected of causing cancer.
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