



Revision date: 22-Aug-2019 Version: 1 Print date: 22-Aug-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 CVT HCF-2 Fluid

Article No.:

1211142

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 (Contract ID: RAV) , +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:

Mixture of: triphenylthio-phosphate and tertiary butylated phenyl derivatives; N,N-Dimethyl-N-octadecylamine; Dec-1-ene, dimers, hydrogenated; Distillates (petroleum), hydrotreated light naphthenic

hazard statements for health hazards

H332 Harmful if inhaled.

Supplemental Hazard information (EU)

EUH208 Contains Sulfonic acids, petroleum, calcium salts. May produce an allergic reaction.



Revision date: 22-Aug-2019 Version: 1 Print date: 22-Aug-2019

Precautionary statements Prevention

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
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.
------	---

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	10 - < 20 Wt %
CAS No.: 64742-53-6 EC No.: 265-156-6	Distillates (petroleum), hydrotreated light naphthenic Asp. Tox. 1 H304	10 - < 20 Wt %
CAS No.: 96-33-3 EC No.: 202-500-6	methyl acrylate Eye Irrit. 2 H319	5 - < 10 Wt %
CAS No.: 61789-86-4 EC No.: 263-093-9	Sulfonic acids, petroleum, calcium salts Skin Sens. 1B ⚠ H317	0 - < 1 Wt %
CAS No.: 192268-65-8 EC No.: 421-820-9	Mixture of: triphenylthio-phosphate and tertiary butylated phenyl derivatives Aquatic Chronic 4, Repr. 2 H361d-H413	0 - < 0.2 Wt %
CAS No.: 124-28-7 EC No.: 204-694-8	N,N-Dimethyl-N-octadecylamine Acute Tox. 4, Aquatic Acute 1, Aquatic Chronic 1, Skin Corr. 1B H302-H314-H400-H410	0 - < 0.2 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.



Revision date: 22-Aug-2019 Version: 1 Print date: 22-Aug-2019

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.

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

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.



Revision date: 22-Aug-2019 Version: 1 Print date: 22-Aug-2019

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: 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
TRGS 900 (DE)	Dec-1-ene, dimers, hydrogenated CAS No.: 68649-11-6	① 5 mg/m ³ ② 20 mg/m ³ ⑤ (alveolengängige Fraktion)
CH	methyl acrylate CAS No.: 96-33-3	① 5 ppm (18 mg/m ³) ② 10 ppm (36 mg/m ³) ⑤ (kann über die Haut aufgenommen werden)
BE	methyl acrylate CAS No.: 96-33-3	① 2 ppm (7.2 mg/m ³) ② 10 ppm (36 mg/m ³)



Revision date: 22-Aug-2019 Version: 1 Print date: 22-Aug-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
CZ	methyl acrylate CAS No.: 96-33-3	① 5.68 ppm (20 mg/m ³) ② 11.36 ppm (40 mg/m ³)
PL	methyl acrylate CAS No.: 96-33-3	① 14 mg/m ³ ② 28 mg/m ³
NO	methyl acrylate CAS No.: 96-33-3	① 5 ppm (18 mg/m ³) ② 10 ppm (36 mg/m ³) ⑤ (kan absorberes gjennom huden)
TRGS 900 (DE)	methyl acrylate CAS No.: 96-33-3	① 2 ppm (7.1 mg/m ³) ② 4 ppm (14.2 mg/m ³) ⑤ (kann über die Haut aufgenommen werden)
IE	methyl acrylate CAS No.: 96-33-3	① 5 ppm (18 mg/m ³) ② 10 ppm (36 mg/m ³) ⑤ (may be absorbed through the skin)
FI	methyl acrylate CAS No.: 96-33-3	① 2 ppm (7 mg/m ³) ② 5 ppm (18 mg/m ³) ⑤ (kan absorberas genom huden)
LT	methyl acrylate CAS No.: 96-33-3	① 5 ppm (18 mg/m ³) ② 10 ppm (36 mg/m ³)
SK	methyl acrylate CAS No.: 96-33-3	① 5 ppm (18 mg/m ³) ② 10 ppm (36 mg/m ³)
IOELV (EU)	methyl acrylate CAS No.: 96-33-3	① 5 ppm (18 mg/m ³) ② 10 ppm (36 mg/m ³)
DK	methyl acrylate CAS No.: 96-33-3	① 2 ppm (7 mg/m ³) ② 4 ppm (14 mg/m ³)
BG	methyl acrylate CAS No.: 96-33-3	① 5 ppm (18 mg/m ³) ② 10 ppm (36 mg/m ³)
MY	methyl acrylate CAS No.: 96-33-3	① 2 ppm (7 mg/m ³) ⑤ (resapan melalui kulit hendaklah diambil kira)
MAK (AT)	methyl acrylate CAS No.: 96-33-3	② 10 ppm (36 mg/m ³) ⑤ (max. 8x5 min./Schicht, Momentanwert, kann über die Haut aufgenommen werden)
NL	methyl acrylate CAS No.: 96-33-3	① 18 mg/m ³ ② 36 mg/m ³
RO	methyl acrylate CAS No.: 96-33-3	① 5 ppm (18 mg/m ³) ② 10 ppm (36 mg/m ³)
EE	methyl acrylate CAS No.: 96-33-3	① 5 ppm (18 mg/m ³) ② 10 ppm (36 mg/m ³)
Alberta (CA)	methyl acrylate CAS No.: 96-33-3	① 2 ppm (7 mg/m ³)
LV	methyl acrylate CAS No.: 96-33-3	① 5 ppm (18 mg/m ³) ② 10 ppm (36 mg/m ³)
ES	methyl acrylate CAS No.: 96-33-3	① 2 ppm (7.2 mg/m ³) ⑤ (puede ser absorbido a través dérmica), (Sen)
MAK (AT)	methyl acrylate CAS No.: 96-33-3	① 5 ppm (18 mg/m ³) ⑤ (kann über die Haut aufgenommen werden)
BC (CA)	methyl acrylate CAS No.: 96-33-3	① 2 ppm ⑤ (may be absorbed through the skin)



Revision date: 22-Aug-2019 Version: 1 Print date: 22-Aug-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
VRC (FR)	methyl acrylate CAS No.: 96-33-3	① 5 ppm (18 mg/m ³) ② 10 ppm (36 mg/m ³)
JP	methyl acrylate CAS No.: 96-33-3	① 2 ppm (7 mg/m ³)
SI	methyl acrylate CAS No.: 96-33-3	① 5 ppm (18 mg/m ³) ② 10 ppm (36 mg/m ³)
TW	methyl acrylate CAS No.: 96-33-3	① 10 ppm (35 mg/m ³) ⑤ (必須預計到從皮膚吸入)
KR	methyl acrylate CAS No.: 96-33-3	① 2 ppm (7 mg/m ³) ⑤ (피부를 통한 흡수를 예상해야 한다)
WEL (GB)	methyl acrylate CAS No.: 96-33-3	① 5 ppm (18 mg/m ³) ② 10 ppm (36 mg/m ³)
IS	methyl acrylate CAS No.: 96-33-3	① 5 ppm (18 mg/m ³) ② 10 ppm (36 mg/m ³)
CN	methyl acrylate CAS No.: 96-33-3	① 20 mg/m ³
HU	methyl acrylate CAS No.: 96-33-3	① 18 mg/m ³ ② 36 mg/m ³
RU	methyl acrylate CAS No.: 96-33-3	① 5 mg/m ³ ③ 15 mg/m ³
GR	methyl acrylate CAS No.: 96-33-3	① 5 ppm (18 mg/m ³) ② 10 ppm (36 mg/m ³)
HR	methyl acrylate CAS No.: 96-33-3	① 5 ppm (18 mg/m ³) ② 10 ppm (36 mg/m ³)
OSHA (US)	methyl acrylate CAS No.: 96-33-3	① 10 ppm (35 mg/m ³) ⑤ (may be absorbed through the skin)
NIOSH (US)	methyl acrylate CAS No.: 96-33-3	① 10 ppm (35 mg/m ³) ⑤ (may be absorbed through the skin)
ACGIH (US)	methyl acrylate CAS No.: 96-33-3	① 2 ppm (7 mg/m ³) ⑤ (may be absorbed through the skin)
Québec (CA)	methyl acrylate CAS No.: 96-33-3	① 2 ppm (7 mg/m ³)
TRGS 900 (DE)	Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4	① 5 mg/m ³ ② 20 mg/m ³ ⑤ alveolengängige Fraktion

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
Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4	11.75 mg/m ³	① DNEL worker ② inhalative, long-term, systemic
Mixture of: triphenylthio-phosphate and tertiary butylated phenyl derivatives CAS No.: 192268-65-8	1.2 mg/m ³	① DNEL worker ② inhalative, long-term, systemic

8.2. Exposure controls

8.2.1. Appropriate engineering controls

See section 7. No additional measures necessary.



Revision date: 22-Aug-2019 Version: 1 Print date: 22-Aug-2019

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 respirative protection necessary.

8.2.3. Environmental exposure controls

See section 7. No additional measures necessary.

8.3. Additional information

Mineral oil mist limits:
 OSHA PEL - value $5 \text{ mg} / \text{m}^3$, ACGIH STEL - value of $10 \text{ mg} / \text{m}^3$ (bei mineralischen Ölen)

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: tawny

Odour: characteristic

Safety relevant basis data

parameter		at °C	Method	Remark
pH	<i>not determined</i>			
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	<i>not determined</i>			
Decomposition temperature	<i>not determined</i>			
Flash point	150 °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	853 kg/m^3	20 °C		
Bulk density	<i>not determined</i>			
Water solubility	The study does not need to be conducted because the substance is known to be insoluble in water.			



Revision date: 22-Aug-2019 Version: 1 Print date: 22-Aug-2019

parameter		at °C	Method	Remark
Partition coefficient: n-octanol/ water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	24.95 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 (NOx)

Further information

No information available.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
124-28-7	N,N-Dimethyl-N-octadecylamine	LD₅₀ oral: 1,000 - 2,118 mg/kg

Acute oral toxicity:

Pamatojoties uz pieejamajiem datiem, klasifikācijas kritēriji nav izpildīti. The product has not been tested.

Acute dermal toxicity:

No information available for acute dermal and inhalative toxicity.

Acute inhalation toxicity:

Harmful if inhaled.

Skin corrosion/irritation:

Based on available data, the classification criteria are not met. Frequently or prolonged contact with skin may cause dermal irritation.

Serious eye damage/irritation:

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

Respiratory or skin sensitisation:

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

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.



Revision date: 22-Aug-2019 Version: 1 Print date: 22-Aug-2019

SECTION 12: Ecological information

12.1. Toxicity

CAS No.	Substance name	Toxicological information
124-28-7	N,N-Dimethyl-N-octadecylamine	LC₅₀ : 0.18 - 1.13 mg/l 4 d EC₅₀ : 0.058 - 0.926 mg/l 2 d EC₅₀ : 0.0099 - 0.0268 mg/l 3 d

Assessment/classification:

The product has not been tested.

Additional ecotoxicological information:

Do not allow uncontrolled discharge of product into the environment.

12.2. Persistence and degradability

CAS No.	Substance name	Biodegradation	Remark
68649-11-6	Dec-1-ene, dimers, hydrogenated	Yes, rapidly	

Biodegradation:

Not readily biodegradable (according to OECD criteria)

12.3. Bioaccumulative potential

CAS No.	Substance name	Log K _{OW}	Bioconcentration factor (BCF)
124-28-7	N,N-Dimethyl-N-octadecylamine	1.3	

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

CAS No.	Substance name	Results of PBT and vPvB assessment
68649-11-6	Dec-1-ene, dimers, hydrogenated	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
64742-53-6	Distillates (petroleum), hydrotreated light naphthenic	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
96-33-3	methyl acrylate	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
61789-86-4	Sulfonic acids, petroleum, calcium salts	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
124-28-7	N,N-Dimethyl-N-octadecylamine	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. Other adverse effects

The product has not been tested.

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.

Appropriate disposal / Package:

Non-contaminated packages may be recycled.



Revision date: 22-Aug-2019 Version: 1 Print date: 22-Aug-2019

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

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.

15.1.2. National regulations

[DE] National regulations

Restrictions of occupation

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Störfallverordnung

for substances contained in the product:

This product is not assigned to a hazard category.

Named dangerous substances:

- Methyl acrylate

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

Technische Anleitung Luft (TA-Luft)

Remark:

To follow: 5.2.5.



Revision date: 22-Aug-2019 Version: 1 Print date: 22-Aug-2019

Water hazard class (WGK)

WGK:

2 - deutlich wassergefährdend

Source:

Self-classification (mixture; calculation rule).
Identification number 436

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

No data available

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).



Revision date: 22-Aug-2019 Version: 1 Print date: 22-Aug-2019

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.	

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.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H361d	Suspected of damaging the unborn child.
H400	Very toxic to aquatic life.
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.