Revision date: 26-Mar-2019 Version: 2 Print date: 26-Mar-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 ATF DCT-F3

Article No.:

1211135

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

löllenbecker 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		Classification proc edure
Acute toxicity (inhalative) (Acute Tox. 4)	H332: Harmful if inhaled.	
Hazardous to the aquatic environment (Aquatic Chronic 3)	H412: Harmful to aquatic life with long lasting effects.	

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:

Ethanol, 2,2'-iminobis-, N-tallow alkyl derivs.; diphenylamine; Dec-1-ene, dimers, hydrogenated; Polymere

hazard statements for health hazards	
H332	Harmful if inhaled.

sp en / DE / BA / BY / MK / HU / ...



Hazard statements for environmental hazards		
H412	Harmful to aquatic life with long lasting effects.	

Supplemental Hazard information (EU)		
EUH208	Contains Polymere, Ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., 2-ethylhexyl methacrylate. May produce an allergic reaction.	

Precautionary statements Prevention		
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.	
P271	Use only outdoors or in a well-ventilated area.	
P273	Avoid release to the environment.	

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

Additional information:

The base oil / mineral oil used has a value of less than 3% DMSO, so it is not classified as a carcinogen.

Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concen- tration
CAS No.: 68649-11-6 EC No.: 500-228-5	Dec-1-ene, dimers, hydrogenated Acute Tox. 4, Asp. Tox. 1 H304	15 - < 25 Wt %
CAS No.: 68784-17-8 EC No.: 272-225-4	Isooctadecanoic acid, reaction products with tetraethylenepentamine Eye Irrit. 2, Skin Irrit. 2 H315-H319	1 - < 2 Wt %
CAS No.: 36878-20-3 EC No.: 253-249-4	bis(nonylphenyl)amine Aquatic Chronic 4 H413	1 - < 2 Wt %
CAS No.: 91648-65-6 EC No.: 293-927-7	1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol Aquatic Chronic 3 H412	1 - < 2 Wt %
	Polymere Skin Sens. 1 H317	0 - < 1 Wt %
CAS No.: 61791-44-4 EC No.: 263-177-5	Ethanol, 2,2'-iminobis-, N-tallow alkyl derivs. Acute Tox. 4, Aquatic Chronic 3, Skin Corr. 1B, Skin Sens. 1 H302-H314-H317-H412	0 - < 1 Wt %
CAS No.: 688-84-6 EC No.: 211-708-6	2-ethylhexyl methacrylate Aquatic Chronic 3, Eye Irrit. 2, STOT SE 3, Skin Irrit. 2, Skin Sens. 1B H315-H317-H319-H335-H412	0 - < 1 Wt %
CAS No.: 122-39-4 EC No.: 204-539-4	diphenylamine Acute Tox. 3, Aquatic Chronic 1, STOT RE 2 H301-H311-H331-H373-H410	0 - < 1 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.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Consult a doctor immediately.

After eve 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. Causes serious eye irritation.

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

May produce an allergic reaction. .

st 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 (NOx), 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.

Revision date: 26-Mar-2019 Version: 2 Print date: 26-Mar-2019



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.

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	 long-term occupational exposure limit value short-term occupational exposure limit value Instantaneous value Monitoring and observation processes Remark
DFG (DE)	Dec-1-ene, dimers, hydrogen ated CAS No.: 68649-11-6	① 5 mg/m³ ② 20 mg/m³ ⑤ (alveolengängige Fraktion)
СН	diphenylamine CAS No.: 122-39-4	① 10 mg/m³ ⑤ (einatembare Fraktion, kann über die Haut aufgenommen werden)
BE	diphenylamine CAS No.: 122-39-4	① 10 mg/m³
CZ	diphenylamine CAS No.: 122-39-4	① 10 mg/m³ ② 20 mg/m³
NO	diphenylamine CAS No.: 122-39-4	① 5 mg/m³
IE	diphenylamine CAS No.: 122-39-4	① 10 mg/m³ ② 20 mg/m³
MY	diphenylamine CAS No.: 122-39-4	① 10 mg/m³
FI	diphenylamine CAS No.: 122-39-4	① 5 mg/m³ ② 10 mg/m³
LT	diphenylamine CAS No.: 122-39-4	① 4 mg/m³ ② 12 mg/m³ ⑤
SE	diphenylamine CAS No.: 122-39-4	① 4 mg/m³ ③ 12 mg/m³
MAK (AT)	diphenylamine CAS No.: 122-39-4	① 0.7 ppm (5 mg/m³) ⑤ (einatembare Fraktion, kann über die Haut aufgenommen werden)
MAK (AT)	diphenylamine CAS No.: 122-39-4	② 1.4 ppm (10 mg/m³) ⑤ (einatembare Fraktion, max. 4x15 min./Schicht, kann über die Haut aufgenommen werden)
DK	diphenylamine CAS No.: 122-39-4	① 5 mg/m³ ② 10 mg/m³
BG	diphenylamine CAS No.: 122-39-4	① 10 mg/m³
HR	diphenylamine CAS No.: 122-39-4	① 10 mg/m³ ② 20 mg/m³
RO	diphenylamine CAS No.: 122-39-4	① 4 mg/m³ ② 6 mg/m³
EE	diphenylamine CAS No.: 122-39-4	① 10 mg/m³
Alberta (CA)	diphenylamine CAS No.: 122-39-4	① 10 mg/m³
ES	diphenylamine CAS No.: 122-39-4	① 10 mg/m³
BC (CA)	diphenylamine CAS No.: 122-39-4	① 10 mg/m³

RAVENOL

Revision date: 26-Mar-2019 Version: 2 Print date: 26-Mar-2019

Limit value type (country of origin)	Substance name	long-term occupational exposure limit value short-term occupational exposure limit value Instantaneous value Monitoring and observation processes Remark 1 5 mg/m³
	CAS No.: 122-39-4	② 10 mg/m³ ⑤ (einatembare Fraktion, kann über die Haut aufgenommen werden)
VLA (FR)	diphenylamine CAS No.: 122-39-4	① 10 mg/m³
WEL (GB)	diphenylamine CAS No.: 122-39-4	① 10 mg/m³ ② 20 mg/m³
SI	diphenylamine CAS No.: 122-39-4	① 5 mg/m³ ⑤ (frakcija ki jo je mogoče vdihniti, računati je treba z možnos tjo prodiranja skozi kožo)
TW	diphenylamine CAS No.: 122-39-4	① 10 mg/m³
KR	diphenylamine CAS No.: 122-39-4	① 10 mg/m³
IS	diphenylamine CAS No.: 122-39-4	① 5 mg/m³
CN	diphenylamine CAS No.: 122-39-4	① 10 mg/m³
GR	diphenylamine CAS No.: 122-39-4	① 10 mg/m³ ② 20 mg/m³
NIOSH (US)	diphenylamine CAS No.: 122-39-4	① 10 mg/m³
ACGIH (US)	diphenylamine CAS No.: 122-39-4	① 10 mg/m³ ⑤ (A4)
Québec (CA)	diphenylamine CAS No.: 122-39-4	① 10 mg/m³

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

Substance name		① DNEL type
		② Exposure route
Isooctadecanoic acid, reaction products with tetra	11.75 mg/m ³	① DNEL worker
ethylenepentamine CAS No.: 68784-17-8		② DNEL long-term inhalative (systemic)
1,3,4-Thiadiazolidine-2,5-dithione, reaction produ	4.408 mg/m ³	① DNEL worker
cts with hydrogen peroxide and tert-nonanethiol CAS No.: 91648-65-6		② DNEL long-term inhalative (systemic)

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

Revision date: 26-Mar-2019 Version: 2 Print date: 26-Mar-2019



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 (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 mg / m^3 , ACGIH STEL - value of 10 mg / m^3

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid Colour: yellow

Odour: characteristic

Safety relevant basis data

parameter		at °C	Method	Remark	
рН	not determined				
Melting point	not determined				
Freezing point	not determined				
Initial boiling point and boiling range	not determined				
Decomposition temperature	not determined				
Flash point	190 °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	847 kg/m³	20 °C			
Bulk density	not determined				
Water solubility	not determined				
Partition coefficient: n-octanol/ water	not determined				
Dynamic viscosity	not determined				
Kinematic viscosity	30.5 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.

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Revision date: 26-Mar-2019 Version: 2 Print date: 26-Mar-2019



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
36878-20-3	bis(nonylphenyl)amine	LD ₅₀ oral:
		5,000 g/m³ (Rat)
		LD ₅₀ dermal:
		>2,000 g/m³ (Rabbit)
122-39-4	diphenylamine	LD ₅₀ oral:
		1,120 mg/kg

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:

Harmful by inhalation.

Skin corrosion/irritation:

No irritant effect. Frequently or prolonged contact with skin may cause dermal irritation.

Serious eve damage/irritation:

No irritant effect.

Respiratory or skin sensitisation:

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ cell mutagenicity:

No indications of human germ cell mutagenicity exist.

Carcinogenicity:

No indication of human carcinogenicity.

Reproductive toxicity:

No indications of human reproductive toxicity exist.

STOT-single exposure:

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

STOT-repeated exposure:

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

Aspiration hazard:

Observe risk of aspiration if vomiting occurs.

Revision date: 26-Mar-2019 Version: 2 Print date: 26-Mar-2019



SECTION 12: Ecological information

12.1. Toxicity

CAS No.	Substance name	Toxicological information
68784-17-8	Isooctadecanoic acid, reaction products with tetr	EC₅₀: 94 mg/l 4 d
	aethylenepentamine	NOEC: 23 mg/l 4 d
		EC₅₀: >1,000 mg/l 2 d
		NOEC: 32 mg/l 21 d
		LC₅₀: >1,000 mg/l 4 d
36878-20-3	bis(nonylphenyl)amine	LC₅₀: >100 mg/l 4 d
		EC₅₀: >100 mg/l 2 d
		EC ₅₀ : 600 mg/l 3 d
122-39-4	diphenylamine	LC ₅₀ : 3.79 mg/l 4 d
		EC₅₀: 1.16 mg/l 2 d
		EC₅₀: 2.17 mg/l 3 d
		LC ₅₀ : 2.2 mg/l 2 d
		EC₅₀: 0.31 mg/l 2 d (Wasserfloh)
		EC₅₀: 1.51 mg/l 3 d (Grünalgen)

Assessment/classification:

Harmful to aquatic life with long lasting effects.

Additional ecotoxicological information:

Do not allow uncontrolled discharge of product into the environment.

12.2. Persistence and degradability

CAS No.	Substance name	Biodegradation	Remark
68649-11-6	Dec-1-ene, dimers, hydrogenated	Yes, rapidly	
36878-20-3	bis(nonylphenyl)amine	No	

Additional information:

The product has not been tested.

12.3. Bioaccumulative potential

CAS No.	Substance name	Log K _{OC}	Bioconcentration factor (BCF)
	Isooctadecanoic acid, reaction products with tetrae thylenepentamine	45.8	
36878-20-3	bis(nonylphenyl)amine	7.6	1,584.89
122-39-4	diphenylamine	3.4	

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.
68784-17-8	Isooctadecanoic acid, reaction products with tetrae thylenepentamine	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
36878-20-3	bis(nonylphenyl)amine	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
91648-65-6	1,3,4-Thiadiazolidine-2,5-dithione, reaction product s with hydrogen peroxide and tert-nonanethiol	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
	Polymere	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
61791-44-4	Ethanol, 2,2'-iminobis-, N-tallow alkyl derivs.	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
688-84-6	2-ethylhexyl methacrylate	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.

Revision date: 26-Mar-2019 Version: 2 Print date: 26-Mar-2019



CAS No.	Substance name	Results of PBT and vPvB assessment
122-39-4	diphenylamine	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

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:

Dispose of waste according to applicable legislation.

Waste treatment options

Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Non-contaminated packages may be recycled.

13.2. Additional information

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

Sea transport (IMDG)

SECTION 14: Transport information

Land transport (ADR/ Inland waterway

No dangerous good in sense of these transport regulations.

RID)	craft (ADN)		
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 sh	ipping 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 haz	zard class(es)		
not relevant			
14.4. Packing grou	р		
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

14.5. Environmental hazards

14.6. Special precautions for user

No data available

not relevant

not relevant

sp en / DE / BA / BY / MK / HU / ...



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:

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

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 (AltölV)

[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)



sp

[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
2.1.	Classification of the substance or mixture
2.2.	Label elements

RAVENOL

Revision date: 26-Mar-2019 Version: 2 Print date: 26-Mar-2019

 4.1. Description of first aid measures 4.3. Indication of any immediate medical attention and special treatment needed 5.1. Extinguishing media 5.2. Special hazards arising from the substance or mixture 5.3. Advice for firefighters 6.1. Personal precautions, protective equipment and emergency procedures 6.2. Environmental precautions 7.1. Precautions for safe handling 8.1. Control parameters 8.2. Exposure controls 9.1. Information on basic physical and chemical properties 10.1. Reactivity 10.5. Incompatible materials 11.1. Information on toxicological effects 12.1. Toxicity 12.2. Persistence and degradability 12.3. Bioaccumulative potential 12.4. Mobility in soil 12.6. Other adverse effects 13.2. Additional information 14.1. UN number 14.2. 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 	3.2.	Mixtures
 5.1. Extinguishing media 5.2. Special hazards arising from the substance or mixture 5.3. Advice for firefighters 6.1. Personal precautions, protective equipment and emergency procedures 6.2. Environmental precautions 7.1. Precautions for safe handling 8.1. Control parameters 8.2. Exposure controls 9.1. Information on basic physical and chemical properties 10.1. Reactivity 10.5. Incompatible materials 11.1. Information on toxicological effects 12.1. Toxicity 12.2. Persistence and degradability 12.3. Bioaccumulative potential 12.4. Mobility in soil 12.6. Other adverse effects 13.2. Additional information 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 Safety, health and environmental regulations/legislation specific for the substance or mixture 16.1. Indication of changes 	4.1.	Description of first aid measures
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12.6. Other adverse effects 13.2. Additional information 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	12.3.	Bioaccumulative potential
 13.2. Additional information 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 	12.4.	Mobility in soil
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 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 	14.1.	UN number
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture16.1. Indication of changes	14.2.	UN proper shipping name
16.1. Indication of changes	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)	16.5.	Relevant R-, H- and EUH-phrases (Number and full text)

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		Classification proc edure
Acute toxicity (inhalative) (Acute Tox. 4)	H332: Harmful if inhaled.	
Hazardous to the aquatic environment (Aquatic Chronic 3)	H412: Harmful to aquatic life with long lasting effects.	

RAVENOL

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

Hazard statements	
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure. ()
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful 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

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