

SAFETY DATA SHEET

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

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Mabanol Radon Gear ATF III MV

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

1.1. Product identifier

Trade name/designation:

Mabanol Radon Gear ATF III MV

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

No data available

1.3. Details of the supplier of the safety data sheet

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

Mabanol GmbH & Co. KG

Koreastraße 7

20457 Hamburg

Germany

Telephone: 0049 (0) 40 36809988

E-mail: info@mabanol.com

Website: www.mabanol.com

1.4. Emergency telephone number

Giftinformationszentrale Göttingen , 24h: 0049 (0) 551 1 92 40

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

Supplemental Hazard information (EU)	
EUH208	Contains Acetamid, 2-hydroxy-, N,N-dicoco alkyl deriv.; 1,2-Propanediol, 3-amino-, N,N-dicoco alkyl deriv.; 1-(tert-dodecylthio)propan-2-ol; Benzene, polypropene derivatives, sulfonated, calcium salts; C14-18 alpha-olefin epoxide, reaction products with boric acid. May produce an allergic reaction.

Precautionary statements Prevention	
P273	Avoid release to the environment.

Precautionary statements Disposal	
P501	Dispose of contents/container to National regulations.

2.3. Other hazards

No data available

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Additional information:

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

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Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 64742-55-8 EC No.: 265-158-7	Distillates (petroleum), hydrotreated light paraffinic Asp. Tox. 1 H304	50 - ≤ 55 Wt %
CAS No.: 398141-87-2 EC No.: 800-172-4 REACH No.: 01-2119969520-35	Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyl oxy) derivs., C10-rich Aquatic Chronic 2 H411	1 - < 5 Wt %
EC No.: 471-920-1 REACH No.: 01-0000019770-68	Acetamid, 2-hydroxy-, N,N-dicoco alkyl deriv. Skin Sens. 1B H317	< 1 Wt %
CAS No.: 67124-09-8 EC No.: 266-582-5	1-(tert-dodecylthio)propan-2-ol Skin Sens. 1B, Aquatic Acute 1, Aquatic Chronic 1 H317-H400-H410	< 1 Wt %
	Benzene, polypropene derivatives, sulfonated, calcium salts Skin Sens. 1B H317	< 1 Wt %
EC No.: 939-580-3 REACH No.: 01-2119976364-28	C14-18 alpha-olefin epoxide, reaction products with boric acid Skin Sens. 1B H317	< 1 Wt %
EC No.: 482-000-4	1,2-Propanediol, 3-amino-, N,N-dicoco alkyl deriv. Skin Sens. 1B, Aquatic Chronic 3 H317-H412	< 1 Wt %
CAS No.: 61791-44-4 EC No.: 263-177-5	Ethanol, 2,2'-iminobis-, N-tallow alkyl derivs. Skin Corr. 1C, Eye Dam. 1, Met. Corr. 1, Acute Tox. 4, Aquatic Acute 1, Aquatic Chronic 1 H290-H302-H314-H318-H400-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).

Following inhalation:

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. In case of skin irritation, consult a physician.

After eye contact:

Rinse immediately carefully and thoroughly with eye-bath or water. When in doubt or if symptoms are observed, get medical advice.

After ingestion:

Do NOT induce vomiting. Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Never give anything by mouth to an unconscious person or a person with cramps. When in doubt or if symptoms are observed, get medical advice.

4.2. Most important symptoms and effects, both acute and delayed

Observe risk of aspiration if vomiting occurs.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Foam. Extinguishing powder. Carbon dioxide (CO₂). Sand. In case of major fire and large quantities: Water spray jet. Water mist.

Unsuitable extinguishing media:

Full water jet.

5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke. In case of fire and/or explosion do not breathe fumes.

Hazardous combustion products:

In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO₂). Sulphur dioxide (SO₂). Nitrogen oxides (NO_x).

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Co-ordinate fire-fighting measures to the fire surroundings.

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. Ventilate affected area. Special danger of slipping by leaking/spilling product.

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. 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 cleaning up:

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

6.5. Additional information

No data available

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). Avoid: Generation/formation of mist.

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Fire prevent measures:

Usual measures for fire prevention. Keep away from sources of ignition - No smoking. Fire class B (Fires of liquids or liquid turning substances).

Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin. Do not breathe gas/vapour/aerosol. Apply skin care products after work. Do not put any product-impregnated cleaning rags into your trouser pockets. Used working clothes should not be worn outside the work area. Take off immediately all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Only use containers specifically approved for the substance/product. Keep container tightly closed in a cool, well-ventilated place.

Hints on storage assembly:

Do not store together with: Gas. Explosives. P8 Oxidising liquids and solids. Radioactive substances. Infectious substances.

Storage class: 10 - Combustible liquids that cannot be assigned to any of the above storage classes

Further information on storage conditions:

Temperature control required. Protect against: UV-radiation/sunlight. Light. Air. Keep container tightly closed.

7.3. Specific end use(s)

No data available

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)	C9-C15 Aliphaten	① 600 mg/m ³ ② 1,200 mg/m ³ ⑤ (C9-C15 Aliphaten)

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
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy) derivs., C10-rich CAS No.: 398141-87-2	3.1 mg/m ³	① DNEL worker ② DNEL long-term inhalative (systemic)
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy) derivs., C10-rich CAS No.: 398141-87-2	0.8 mg/m ³	① DNEL Consumer ② DNEL long-term inhalative (systemic)
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy) derivs., C10-rich CAS No.: 398141-87-2	44 mg/kg bw/day	① DNEL worker ② DNEL long-term dermal (systemic)
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy) derivs., C10-rich CAS No.: 398141-87-2	22 mg/kg bw/day	① DNEL Consumer ② DNEL long-term dermal (systemic)
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy) derivs., C10-rich CAS No.: 398141-87-2	0.4 mg/kg bw/day	① DNEL Consumer ② DNEL long-term oral (repeated)

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Substance name	DNEL value	① DNEL type ② Exposure route
1-(tert-dodecylthio)propan-2-ol CAS No.: 67124-09-8	11.8 mg/m ³	① DNEL worker ② DNEL long-term inhalative (systemic)
1-(tert-dodecylthio)propan-2-ol CAS No.: 67124-09-8	3.34 mg/kg bw/day	① DNEL worker ② DNEL long-term dermal (systemic)
C14-18 alpha-olefin epoxide, reaction products with boric acid	5.88 mg/m ³	① DNEL worker ② DNEL long-term inhalative (systemic)
C14-18 alpha-olefin epoxide, reaction products with boric acid	16.7 mg/kg bw/day	① DNEL worker ② DNEL long-term dermal (systemic)

Substance name	PNEC Value	① PNEC type
Distillates (petroleum), hydrotreated light paraffinic CAS No.: 64742-55-8	9.33 mg/kg	① PNEC Secondary Poisoning
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy) derivs., C10-rich CAS No.: 398141-87-2	0.002 mg/l	① PNEC aquatic, freshwater
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy) derivs., C10-rich CAS No.: 398141-87-2	0.0002 mg/l	① PNEC aquatic, marine water
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy) derivs., C10-rich CAS No.: 398141-87-2	0.435 mg/kg	① PNEC sediment, freshwater
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy) derivs., C10-rich CAS No.: 398141-87-2	0.435 mg/kg	① PNEC sediment, marine water
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy) derivs., C10-rich CAS No.: 398141-87-2	6.66 mg/kg	① PNEC Secondary Poisoning
Acetamid, 2-hydroxy-, N,N-dicoco alkyl deriv.	0.4 mg/l	① PNEC aquatic, freshwater
Acetamid, 2-hydroxy-, N,N-dicoco alkyl deriv.	0.04 mg/l	① PNEC aquatic, marine water
Acetamid, 2-hydroxy-, N,N-dicoco alkyl deriv.	17,100 mg/kg	① PNEC sediment, freshwater
Acetamid, 2-hydroxy-, N,N-dicoco alkyl deriv.	1,701 mg/kg	① PNEC sediment, marine water
1-(tert-dodecylthio)propan-2-ol CAS No.: 67124-09-8	0.006 mg/l	① PNEC aquatic, freshwater
1-(tert-dodecylthio)propan-2-ol CAS No.: 67124-09-8	0.006 mg/l	① PNEC aquatic, intermittent release
1-(tert-dodecylthio)propan-2-ol CAS No.: 67124-09-8	0.001 mg/l	① PNEC aquatic, marine water
1-(tert-dodecylthio)propan-2-ol CAS No.: 67124-09-8	8.28 mg/kg	① PNEC sediment, freshwater
1-(tert-dodecylthio)propan-2-ol CAS No.: 67124-09-8	0.828 mg/kg	① PNEC sediment, marine water
1-(tert-dodecylthio)propan-2-ol CAS No.: 67124-09-8	100 ml/l	① PNEC Secondary Poisoning
C14-18 alpha-olefin epoxide, reaction products with boric acid	0.2 mg/l	① PNEC aquatic, freshwater
C14-18 alpha-olefin epoxide, reaction products with boric acid	0.02 mg/l	① PNEC aquatic, marine water
C14-18 alpha-olefin epoxide, reaction products with boric acid	8,556 mg/kg	① PNEC sediment, freshwater
C14-18 alpha-olefin epoxide, reaction products with boric acid	100 mg/l	① PNEC Secondary Poisoning

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8.2. Exposure controls

8.2.1. Appropriate engineering controls

Provide adequate ventilation.

8.2.2. Personal protection equipment



Eye/face protection:

Eye glasses with side protection (DIN EN 166).

Skin protection:

Tested protective gloves must be worn (DIN EN 374).

Suitable material: NBR (Nitrile rubber). Neoprene. Viton (R). 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.

Suitable protective clothing: flame-resistant.

Respiratory protection:

Usually no personal respirative protection necessary.

Respiratory protection necessary at: exceeding exposure limit values. aerosol or mist formation.

Suitable respiratory protection apparatus: (aerosol or mist formation) Filtering device (full mask or mouthpiece) with filter: A2, A2/P2, ABEK. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

8.2.3. Environmental exposure controls

No data available

8.3. Additional information

air limit values:

Possibility of exposure to Aerosols

Limit value = 5 mg/m³ (Source ACGIH)

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: red

Odour: not determined

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 (°C):	<i>not determined</i>			
Flash point	210 °C		COC	
Evaporation rate	<i>not determined</i>			
Ignition temperature in °C	<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>			
Relative density	0.851 g/cm ³	15 °C	DIN 51757	
Bulk density	<i>not determined</i>			

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parameter		at °C	Method	Remark
Water solubility (g/L)	<i>not determined</i>			
Partition coefficient: n-octanol/ water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	36 mm ² /s	40 °C	DIN EN ISO 31 04	

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

Oxidising agent, strong.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
64742-55-8	Distillates (petroleum), hydrotreated light paraffinic	LD₅₀ oral: >5,000 mg/kg (Rat) LD₅₀ dermal: >2,000 mg/kg (Rabbit) LC₅₀ inhalative: >5.53 mg/l 4 h (Rat)
39814 1-87-2	Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy) derivs., C10-rich	LD₅₀ oral: >5,000 mg/kg (Rat) LD₅₀ dermal: >2,000 mg/kg (Rabbit)
	Acetamid, 2-hydroxy-, N,N-dicoco alkyl deriv.	LD₅₀ oral: >2,000 mg/kg (Rat) LD₅₀ dermal: >2,000 mg/kg (Rabbit)
67124-09-8	1-(tert-dodecylthio)propan-2-ol	LD₅₀ oral: ≈5,000 mg/kg (Rat) LD₅₀ dermal: >2,000 mg/kg (Rabbit)
	C14-18 alpha-olefin epoxide, reaction products with boric acid	LD₅₀ oral: >16,000 mg/kg (Rat) LD₅₀ dermal: >2,000 mg/kg (Rabbit)
	1,2-Propanediol, 3-amino-, N,N-dicoco alkyl deriv.	LD₅₀ oral: >2,500 mg/kg (Rat) LD₅₀ dermal: >2,000 mg/kg (Rabbit)

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.

Frequently or prolonged contact with skin may cause dermal irritation.

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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.

May cause sensitisation especially in sensitive humans.

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.

SECTION 12: Ecological information

12.1. Toxicity

CAS No.	Substance name	Toxicological information
64742-55-8	Distillates (petroleum), hydrotreated light paraffinic	LC₅₀: >100 mg/l 4 d (Pimephales promelas (fath ead minnow)) EC₅₀: >10,000 mg/l 2 d (Daphnia magna (Big water flea)) NOEC: >100 mg/l 3 d (Pseudokirchneriella subcapitata) NOEC: >10 mg/l 21 d (Daphnia magna (Big water flea))
39814-1-87-2	Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy) derivs., C10-rich	LC₅₀: 2.4 mg/l 4 d (Oncorhynchus mykiss (Rainbow trout)) ErC₅₀: 3.5 mg/l 3 d (Desmodesmus subspicatus) EC₅₀: 4.6 mg/l 2 d (Daphnia magna (Big water flea))
	Acetamid, 2-hydroxy-, N,N-dicoco alkyl deriv.	LC₅₀: 1.2 mg/l 4 d (Oncorhynchus mykiss (Rainbow trout)) ErC₅₀: >0.112 mg/l 3 d (Desmodesmus subspicatus) EC₅₀: 0.21 mg/l 2 d (Daphnia magna (Big water flea)) NOEC: 56 mg/l (Daphnia magna (Big water flea))
67124-09-8	1-(tert-dodecylthio)propan-2-ol	LC₅₀: 0.75 mg/l 4 d (Oncorhynchus mykiss (Rainbow trout)) ErC₅₀: >100 mg/l 4 d (Scenedesmus subspicatus) EC₅₀: 0.58 mg/l 2 d (Daphnia magna (Big water flea)) NOEC: 0.32 mg/l 21 d (Daphnia magna (Big water flea))

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CAS No.	Substance name	Toxicological information
	C14-18 alpha-olefin epoxide, reaction products with boric acid	LC₅₀ : >100 mg/l 4 d (Oncorhynchus mykiss (Rainbow trout)) ErC₅₀ : >100 mg/l 3 d (Pseudokirchneriella subpitata) EC₅₀ : >100 mg/l 2 d (Daphnia magna (Big water flea)) NOEC : 10 mg/l 21 d (Daphnia magna (Big water flea))
	1,2-Propanediol, 3-amino-, N,N-dicoco alkyl deriv.	LC₅₀ : >100 mg/l 4 d (Oncorhynchus mykiss (Rainbow trout)) ErC₅₀ : 16 mg/l 3 d (Desmodesmus subspicatus) EC₅₀ : 230 mg/l 2 d (Daphnia magna (Big water flea))

12.2. Persistence and degradability

Additional information:

poorly soluble (Water). The product can be eliminated from water by abiotic processes, e.g. adsorption on activated sludge.

12.3. Bioaccumulative potential

CAS No.	Substance name	Log K _{OC}	Bioconcentration factor (BCF)
64742-55-8	Distillates (petroleum), hydrotreated light paraffinic	3.5	
398141-87-2	Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy) derivs., C10-rich	4.11	
67124-09-8	1-(tert-dodecylthio)propan-2-ol	5	
	C14-18 alpha-olefin epoxide, reaction products with boric acid	6.25	

Accumulation / Evaluation:

No indication of bioaccumulation potential.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
64742-55-8	Distillates (petroleum), hydrotreated light paraffinic	—
398141-87-2	Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy) derivs., C10-rich	—
	Acetamid, 2-hydroxy-, N,N-dicoco alkyl deriv.	—
67124-09-8	1-(tert-dodecylthio)propan-2-ol	—
	Benzene, polypropene derivatives, sulfonated, calcium salts	—
	C14-18 alpha-olefin epoxide, reaction products with boric acid	—
	1,2-Propanediol, 3-amino-, N,N-dicoco alkyl deriv.	—

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.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code packaging:

15 01 10	packaging containing residues of or contaminated by dangerous substances
----------	--

Waste treatment options

Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Handle contaminated packages in the same way as the substance itself.

13.2. Additional information

No data available

SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

14.1. UN-No.

not relevant

14.2. UN proper shipping name

not relevant

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

not relevant.

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):

Use restriction according to REACH annex XVII, no.: Entry 28: Baseoil - unspecified, Distillates (petroleum), hydrotreated heavy paraffinic: No information available.

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds: No information available.

This product is not classified according to Directive 2012/18/EU.

Observe in addition any national regulations!

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15.1.2. National regulations

 **[DE] National regulations**

Störfallverordnung

for substances contained in the product:

Not subject to StörfallVO.

Technische Anleitung Luft (TA-Luft)

Klasse 1:

No information available.

Water hazard class (WGK)

WGK:

2 - deutlich wassergefährdend

Description:

Classification according to VwVwS, Annex 4.

15.2. Chemical Safety Assessment

not applicable.

15.3. Additional information

No data available

SECTION 16: Other information

16.1. Indication of changes

No data available

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16.2. Abbreviations and acronyms

ACGIH: American Conference of Governmental Industrial Hygienists
ADR: Accord européen sur le transport des marchandises dangereuses par Route (International Carriage of Dangerous Goods by Road)
CAS Chemical Abstracts Service
DNEL: Derived No Effect Level
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
LOAEL: Lowest observed adverse effect level
LOAEC: Lowest observed adverse effect concentration
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
NIOSH: National Institute of Occupational Safety and Health
NOAEL: No observed adverse effect level
NOAEC: No observed adverse effect level
NTP: National Toxicology Program
N/A: not applicable
OEL: Occupational Exposure limit (Arbeitsplatzgrenzwert)
OSHA: Occupational Safety and Health Administration
PEL: permissible exposure limit (Zulässiger Expositionsgrenzwert)
PBT: persistent bioaccumulative toxic
PNEC: predicted no effect concentration
REL: Recommended exposure limit (Empfohlene Expositionsgrenze)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
SARA: Superfund Amendments and Reauthorization Act
STEL: Short Term Exposure Limit (Kurzzeitgrenzwert) (15 min)
SVHC: substance of very high concern
TLV: Threshold Limit Values (Schwellwert Grenzwerte)
TRGS Technische Regeln für Gefahrstoffe
TSCA: Toxic Substances Control Act
TWA: Time Weighted Average (Zeitlich gewichteter Mittelwert) (8 h)
VOC: Volatile Organic Compounds
VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe
WGK: Wassergefährdungsklasse

16.3. Key literature references and sources for data

No data available

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
Hazardous to the aquatic environment (Aquatic Chronic 3)	H412: Harmful to aquatic life with long lasting effects.	

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

Hazard statements	
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.

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Hazard statements

H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
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.
H412	Harmful 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.