

SAFETY DATA SHEET

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

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Mabanol Rostlöser

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

* 1.1. Product identifier

Trade name/designation:

Mabanol Rostlöser

Other means of identification:

Mabanol Rust Remover

UFI:

CJRE-NNC7-S179-PYGS

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

Use of the substance/mixture:

Industrial uses

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
Aerosols (<i>Aerosol 1</i>)	H222; H229: Extremely flammable aerosol.; Pressurised container: May burst if heated.	
STOT-single exposure (<i>STOT SE 3</i>)	H336: May cause drowsiness or dizziness.	
Hazardous to the aquatic environment (<i>Aquatic Chronic 3</i>)	H412: Harmful to aquatic life with long lasting effects.	

* 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS02
Flame



GHS07
Exclamation mark

Signal word: Danger

Hazard components for labelling:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics; Distillates (petroleum), hydrotreated light paraffinic

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Hazard statements for physical hazards

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.

hazard statements for health hazards

H336	May cause drowsiness or dizziness.
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Hazard statements for environmental hazards

H412	Harmful to aquatic life with long lasting effects.
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Supplemental hazard information

EUH066	Repeated exposure may cause skin dryness or cracking.
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Precautionary statements Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P260	Do not breathe spray.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear eye/face protection.

Precautionary statements Response

P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P314	Get medical advice/attention if you feel unwell.

Precautionary statements Storage

P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
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2.3. Other hazards

Adverse physicochemical effects:

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Additional information:

Labelling for contents according to regulation (EC) No. 648/2004: > 30% aliphatic hydrocarbons, < 5% phosphates, perfumes

Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 64742-48-9 EC No.: 927-241-2 REACH No.: 01-2119471843-32	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics Asp. Tox. 1 (H304), Flam. Liq. 3 (H226), STOT SE 3 (H336) Danger	59 - < 100 Vol-%
CAS No.: 64742-55-8 EC No.: 265-158-7 REACH No.: 01-2119487077-29	Distillates (petroleum), hydrotreated light paraffinic Asp. Tox. 1 (H304) Danger	11 - < 20 Vol-%
CAS No.: 75-28-5 EC No.: 200-857-2 REACH No.: 01-2119485395-27	isobutane Flam. Gas 1A (H220), Press. Gas (Liq.) (H280) Danger	5 - < 10 Vol-%

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product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 74-98-6 EC No.: 200-827-9 REACH No.: 01-2119486944-21	propane Flam. Gas 1A (H220), Press. Gas (Liq.) (H280) Danger	1 - < 3 Vol-%
CAS No.: 124-38-9 EC No.: 204-696-9	carbon dioxide Press. Gas (Liq.) (H280) Warning	1 - < 3 Vol-%
CAS No.: 106-97-8 EC No.: 203-448-7 REACH No.: 01-2119474691-32	butane Flam. Gas 1A (H220), Press. Gas (Liq.) (H280) Danger	0 - < 1 Vol-%

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

First aider: Pay attention to self-protection! Remove persons to safety. Never give anything by mouth to an unconscious person or a person with cramps.

Following inhalation:

Provide fresh air. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

In case of skin contact:

Wash with plenty of soap and water. Take off immediately all contaminated clothing. And wash it before reuse. When in doubt or if symptoms are observed, get medical advice.

After eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

Following ingestion:

Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs. Call a physician in any case!

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

Headache. Nausea. Dizziness. Causes skin irritation.

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

Treat symptomatically. Call a POISON CENTER. Symptoms can occur only after several hours.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Carbon dioxide (CO₂). Foam. Extinguishing powder.

Unsuitable extinguishing media:

Full water jet.

5.2. Special hazards arising from the substance or mixture

Flammable. Vapours can form explosive mixtures with air.

* 5.3. Advice for firefighters

Do not inhale explosion and combustion gases. In case of fire: Wear self-contained breathing apparatus.

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8.

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Explosion risk.

6.3. Methods and material for containment and cleaning up

For cleaning up:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

* **6.4. Reference to other sections**

Personal protection equipment: see section 8

Disposal: see section 13

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). Do not breathe gas/fumes/vapour/spray.

Fire prevent measures:

Do not spray on naked flames or any incandescent material. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Keep away from sources of ignition - No smoking. Vapours can form explosive mixtures with air.

Advices on general occupational hygiene

Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink or smoke. Avoid contact with eyes and skin.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints on storage assembly:

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances.

Storage class (TRGS 510, Germany): 2B - Aerosol dispensers and lighters

Further information on storage conditions:

Protect against: Frost. Protect from direct sunlight.

7.3. Specific end use(s)

No data available

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SECTION 8: Exposure controls/personal protection

* 8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
TRGS 900 (DE)	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics CAS No.: 64742-48-9 EC No.: 927-241-2	① 300 mg/m ³ ② 600 mg/m ³ ⑤ (C9-C14 Aliphaten)
DFG (DE)	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics CAS No.: 64742-48-9 EC No.: 927-241-2	① 50 ppm (300 mg/m ³) ② 100 ppm (600 mg/m ³)
TRGS 900 (DE)	isobutane CAS No.: 75-28-5 EC No.: 200-857-2	① 1,000 ppm (2,400 mg/m ³) ② 4,000 ppm (9,600 mg/m ³)
TRGS 900 (DE)	propane CAS No.: 74-98-6 EC No.: 200-827-9	① 1,000 ppm (1,800 mg/m ³) ② 4,000 ppm (7,200 mg/m ³)
IOELV (EU)	carbon dioxide CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,000 mg/m ³)
TRGS 900 (DE)	carbon dioxide CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,100 mg/m ³) ② 10,000 ppm (18,200 mg/m ³)
TRGS 900 (DE)	butane CAS No.: 106-97-8 EC No.: 203-448-7	① 1,000 ppm (2,400 mg/m ³) ② 4,000 ppm (9,600 mg/m ³)

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

Substance name	PNEC Value	① PNEC type
Distillates (petroleum), hydrotreated light paraffinic CAS No.: 64742-55-8 EC No.: 265-158-7	9.33 mg/kg	① PNEC secondary poisoning

8.2. Exposure controls

8.2.1. Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

8.2.2. Personal protection equipment

Eye/face protection:

Wear eye/face protection.

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Skin protection:

Tested protective gloves must be worn (EN ISO 374). Suitable material: NBR (Nitrile rubber).

Breakthrough time: 480 min. Thickness of the glove material: 0,45 mm.

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. 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.

Wear suitable protective clothing.

Respiratory protection:

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Respiratory protection necessary at:

exceeding exposure limit values (Occupational exposure limit values). Suitable respiratory protection

apparatus: Combination filtering device. Filtering device with filter or ventilator filtering device of type:

AX.

Observe the wear time limits as specified by the manufacturer.

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

* 9.1. Information on basic physical and chemical properties

Appearance

Physical state: Aerosol

Colour: yellow

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	-40 °C			
Decomposition temperature	<i>not determined</i>			
Flash point	-80 °C			
Evaporation rate	<i>not determined</i>			
Auto-ignition temperature	> 200 °C			
Upper/lower flammability or explosive limits	1 - 11 Vol-%			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	0.778 g/cm ³	20 °C	DIN 51757	
Relative density	<i>not determined</i>			
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.			
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>	40 °C		

9.2. Other information

Density: Data apply to the technically active substance.

pressure: 20 °C: 4,6 bar

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SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable. Ignition hazard.

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

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air. Take precautionary measures against static discharge.

10.5. Incompatible materials

Oxidizing agent. Pyrophoric or self-heating substances.

10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon dioxide (CO₂). Carbon monoxide. aldehydes. carbon black.

Further information

Do not mix with other chemicals.

SECTION 11: Toxicological information

* 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Substance name	Toxicological information
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics CAS No.: 64742-48-9 EC No.: 927-241-2	LD₅₀ oral: >5,000 mg/kg (Rat) LD₅₀ dermal: >5,000 mg/kg (Rabbit) LC₅₀ Acute inhalation toxicity (vapour): >4,951 mg/l 4 h (Rat)
Distillates (petroleum), hydrotreated light paraffinic CAS No.: 64742-55-8 EC No.: 265-158-7	LD₅₀ dermal: >5,000 mg/kg (Rabbit) OECD 402 LD₅₀ oral: >5,000 mg/kg (Rat) OECD 401 LC₅₀ Acute inhalation toxicity (vapour): >5.53 mg/l 4 h (Rat) OECD 403
butane CAS No.: 106-97-8 EC No.: 203-448-7	LC₅₀ Acute inhalation toxicity (gas): 658 ppmV 4 h (Rat)

Acute oral toxicity:

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

Acute dermal toxicity:

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

Acute inhalation toxicity:

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

Skin corrosion/irritation:

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

Serious eye damage/irritation:

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

Respiratory or skin sensitisation:

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.

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Reproductive toxicity:

No indications of human reproductive toxicity exist.

STOT-single exposure:

May cause drowsiness or dizziness. (Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics)

STOT-repeated exposure:

Repeated exposure may cause skin dryness or cracking.

Aspiration hazard:

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

Additional information:

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

* 11.2. Information on other hazards

Endocrine disrupting properties:

No information available.

SECTION 12: Ecological information

* 12.1. Toxicity

Substance name	Toxicological information
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics CAS No.: 64742-48-9 EC No.: 927-241-2	LC₅₀ : >1,000 mg/l 4 d (fish, Oncorhynchus mykiss (Rainbow trout)) ErC₅₀ : >1,000 mg/l 3 d (Algae/water plant, Pseudokirchneriella subcapitata) EC₅₀ : >1,000 mg/l 2 d (crustaceans, Daphnia magna (Big water flea))
Distillates (petroleum), hydrotreated light paraffinic CAS No.: 64742-55-8 EC No.: 265-158-7	LC₅₀ : >100 mg/l 4 d (fish, Pimephales promelas (fathead minnow)) OECD 203 EC₅₀ : >10,000 mg/l 2 d (crustaceans, Daphnia magna (Big water flea)) OECD 202 EC₅₀ : >100 mg/l 3 d (Algae/water plant, Pseudokirchneriella subcapitata) NOEC : >10 mg/l 21 d (crustaceans, Daphnia magna (Big water flea)) OECD 211
isobutane CAS No.: 75-28-5 EC No.: 200-857-2	LC₅₀ : 91.42 mg/l 4 d (fish) ErC₅₀ : 19.37 mg/l 4 d (Algae/water plant) EC₅₀ : 69.43 mg/l 2 d (crustaceans)
propane CAS No.: 74-98-6 EC No.: 200-827-9	LC₅₀ : 49.9 mg/l 4 d (fish) ErC₅₀ : 19.4 mg/l 4 d (Algae/water plant) EC₅₀ : 69.4 mg/l 2 d (crustaceans)
butane CAS No.: 106-97-8 EC No.: 203-448-7	LC₅₀ : 49.9 mg/l 4 d (fish) ErC₅₀ : 19.37 mg/l 4 d (Algae/water plant) EC₅₀ : 69.43 mg/l 2 d (crustaceans)

Aquatic toxicity:

Harmful to aquatic life with long lasting effects.

* 12.2. Persistence and degradability

Substance name	Biodegradation	Remark
Distillates (petroleum), hydrotreated light paraffinic CAS No.: 64742-55-8 EC No.: 265-158-7	—	Not readily biodegradable (according to OECD criteria).

Additional information:

The product has not been tested.

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* 12.3. Bioaccumulative potential

Substance name	Log K _{ow}	Bioconcentration factor (BCF)
Distillates (petroleum), hydrotreated light paraffinic CAS No.: 64742-55-8 EC No.: 265-158-7	> 3.5	
isobutane CAS No.: 75-28-5 EC No.: 200-857-2	1.09	
propane CAS No.: 74-98-6 EC No.: 200-827-9	1.09	
butane CAS No.: 106-97-8 EC No.: 203-448-7	2.89	

Bioconcentration factor (BCF):

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

Substance name	Results of PBT and vPvB assessment
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics CAS No.: 64742-48-9 EC No.: 927-241-2	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
Distillates (petroleum), hydrotreated light paraffinic CAS No.: 64742-55-8 EC No.: 265-158-7	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
isobutane CAS No.: 75-28-5 EC No.: 200-857-2	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
propane CAS No.: 74-98-6 EC No.: 200-827-9	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
carbon dioxide CAS No.: 124-38-9 EC No.: 204-696-9	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
butane CAS No.: 106-97-8 EC No.: 203-448-7	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

The product has not been tested.

* 12.6. Endocrine disrupting properties

No information available.

* 12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

* 13.1. Waste treatment methods

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product:

16 05 04 *	Gases in pressure containers (including halons) containing hazardous substances
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*: Evidence for disposal must be provided.

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Waste code packaging:

15 01 04 metallic packaging

Waste treatment options





Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
UN 1950	UN 1950	UN 1950	UN 1950
14.2. UN proper shipping name			
AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS
14.3. Transport hazard class(es)			
 2.1	 2.1	 2.1	 2.1
14.4. Packing group			
		-	
14.5. Environmental hazards			
No	No	No	No
14.6. Special precautions for user			
Special provisions: 190, 327, 344, 625 Limited quantity (LQ): 1 L Excepted Quantities (EQ): E0 Hazard identification number (Kemler No.): Classification code: 5F tunnel restriction code: (D) Remark: Warning: Flammable gases	Special provisions: 190, 327, 344, 625 Limited quantity (LQ): 1 L Excepted Quantities (EQ): E0 Classification code: 5F Remark: Warning: Flammable gases	Special provisions: 63, 190, 277, 327, 344, 959 Limited quantity (LQ): 1000 mL Excepted Quantities (EQ): E0 EmS-No.: F-D; S-U Remark: Warning: Flammable gases	Special provisions: A145, A167, A802 Limited quantity (LQ): 30 kg G Excepted Quantities (EQ): E0 Remark: Warning: Flammable gases

14.7. Maritime transport in bulk according to IMO instruments

not applicable.

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SECTION 15: Regulatory information

* 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU legislation

Restrictions on use:

Use restriction according to REACH annex XVII, no.:

28: Distillates (petroleum), hydrotreated light paraffinic

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.

VOC 2004/42/EG: No information available.

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive] (VOC): No information available.

15.1.2. National regulations

[DE] National regulations

Restrictions of occupation

To follow: §22 JArbSchG.

Water hazard class

WGK:

2 - deutlich wassergefährdend

Remark:

Self-classification (mixture; calculation rule).

15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

15.3. Additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]: Calculation method. Aerosol directive (75/324/EEC).

SECTION 16: Other information

* 16.1. Indication of changes

1.1.	Product identifier
2.2.	Label elements
3.2.	Mixtures
5.3.	Advice for firefighters
6.4.	Reference to other sections
8.1.	Control parameters
9.1.	Information on basic physical and chemical properties
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
11.2.	Information on other hazards
12.1.	Toxicity
12.2.	Persistence and degradability
12.3.	Bioaccumulative potential
12.5.	Results of PBT and vPvB assessment
12.6.	Endocrine disrupting properties
12.7.	Other adverse effects
13.1.	Waste treatment methods
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
16.1.	Indication of changes
16.2.	Abbreviations and acronyms

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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)
AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen
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
vPvB: very persistent and very bioaccumulative
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
Aerosols (<i>Aerosol 1</i>)	H222; H229: Extremely flammable aerosol.; Pressurized container: May burst if heated.	
STOT-single exposure (<i>STOT SE 3</i>)	H336: May cause drowsiness or dizziness.	
Hazardous to the aquatic environment (<i>Aquatic Chronic 3</i>)	H412: Harmful to aquatic life with long lasting effects.	

SAFETY DATA SHEET

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

Revision date: 21 Oct 2021

Print date: 22 Oct 2021

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

Hazard statements	
H220	Extremely flammable gas.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.

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