

# SAFETY DATA SHEET

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

Revision date: 21 Oct 2021

Print date: 21 Oct 2021

Version: 2

Page 1/15



## Mabanol Drahtseifett

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

#### 1.1. Product identifier

Trade name/designation:

Mabanol Drahtseifett

Other means of identification:

Mabanol Wire Rope Grease

UFI:

V9D8-E6DN-VX0H-GHF3

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

Use of the substance/mixture:

Lubricating agent

#### 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.	
Skin corrosion/irritation ( <i>Skin Irrit. 2</i> )	H315: Causes skin irritation.	
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, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane; Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics; acetone

# SAFETY DATA SHEET

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

Revision date: 21 Oct 2021

Print date: 21 Oct 2021

Version: 2

Page 2/15



## Mabanol Drahtseifett

### Hazard statements for physical hazards

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

### hazard statements for health hazards

H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.

### Hazard statements for environmental hazards

H412	Harmful to aquatic life with long lasting effects.
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### Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.

### 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.
P280	Wear eye/face protection.

### Precautionary statements Response

P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
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### Precautionary statements Storage

P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
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### Precautionary statements Disposal

P501	Dispose of contents/container to Dispose of waste according to applicable legislation..
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## 2.3. Other hazards

No data available

## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
<b>CAS No.:</b> 75-28-5 <b>EC No.:</b> 200-857-2 <b>REACH No.:</b> 01-2119485395-27	<b>isobutane</b> Flam. Gas 1A (H220), Press. Gas (Liq.) (H280) <b>Danger</b>	25 - < 46 Vol-%
<b>CAS No.:</b> 92128-66-0 <b>EC No.:</b> 921-024-6 <b>REACH No.:</b> 01-2119475514-35	<b>Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane</b> Aquatic Chronic 2 (H411), Asp. Tox. 1 (H304), Flam. Liq. 2 (H225), STOT SE 3 (H336), Skin Irrit. 2 (H315) <b>Danger</b>	10 - < 18 Vol-%
<b>CAS No.:</b> 64742-49-0 <b>EC No.:</b> 927-510-4 <b>REACH No.:</b> 01-2119475515-33	<b>Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclics</b> Aquatic Chronic 2 (H411), Asp. Tox. 1 (H304), Flam. Liq. 2 (H225), STOT SE 3 (H336), Skin Irrit. 2 (H315) <b>Danger</b>	10 - < 18 Vol-%
<b>CAS No.:</b> 74-98-6 <b>EC No.:</b> 200-827-9 <b>REACH No.:</b> 01-2119486944-21	<b>propane</b> Flam. Gas 1A (H220), Press. Gas (Liq.) (H280) <b>Danger</b>	5 - < 9 Vol-%

# SAFETY DATA SHEET

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

Revision date: 21 Oct 2021

Print date: 21 Oct 2021

Version: 2

Page 3/15



## Mabanol Drahtseilfett

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
<b>CAS No.:</b> 57855-77-3 <b>EC No.:</b> 260-991-2 <b>REACH No.:</b> 01-2119980985-16	<b>calcium bis(dinonylnaphthalenesulphonate)</b> Eye Irrit. 2 (H319), Skin Irrit. 2 (H315) <b>Warning</b>	1 - < 3 Vol-%
<b>CAS No.:</b> 106-97-8 <b>EC No.:</b> 203-448-7 <b>REACH No.:</b> 01-2119474691-32	<b>butane</b> Flam. Gas 1A (H220), Press. Gas (Liq.) (H280) <b>Danger</b>	1 - < 3 Vol-%
<b>CAS No.:</b> 67-64-1 <b>EC No.:</b> 200-662-2	<b>acetone</b> Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336) <b>Danger</b> EUH066	1 - < 3 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:

Remove person to fresh air and keep comfortable for breathing. When in doubt or if symptoms are observed, get medical advice.

##### In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. And wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.

##### 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. Rinse mouth immediately and drink plenty of water. Call a physician in any case!

#### \* 4.2. Most important symptoms and effects, both acute and delayed

Observe risk of aspiration if vomiting occurs.  
Causes skin irritation. Headache. Nausea. Dizziness.

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media:

Carbon dioxide (CO<sub>2</sub>). Foam. Extinguishing powder. Water spray jet.

##### Unsuitable extinguishing media:

Full water jet.

#### 5.2. Special hazards arising from the substance or mixture

Flammable. Vapours can form explosive mixtures with air.

##### Hazardous combustion products:

aldehydes. Carbon dioxide (CO<sub>2</sub>). Carbon monoxide. Burning produces heavy smoke.

#### 5.3. Advice for firefighters

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

# SAFETY DATA SHEET

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

**Revision date:** 21 Oct 2021

**Print date:** 21 Oct 2021

**Version:** 2

Page 4/15



## Mabanol Drahtseilfett

### 5.4. Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. 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:**

Remove all sources of ignition. Provide adequate ventilation. 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. Clean contaminated articles and floor according to the environmental legislation.

### 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:**

Do not pierce or burn, even after use. If handled uncovered, arrangements with local exhaust ventilation have to be used. 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. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

**Advices on general occupational hygiene**

When using do not eat, drink or smoke. Avoid contact with eyes and skin. Wash hands before breaks and after work. 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. Wash contaminated clothing before reuse.

### \* 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. Food and feedingstuffs.

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

**Further information on storage conditions:**

Protect against: Frost. Protect from direct sunlight. Store in a cool dry place.

### 7.3. Specific end use(s)

No data available

# SAFETY DATA SHEET

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

Revision date: 21 Oct 2021

Print date: 21 Oct 2021

Version: 2

Page 5/15



## Mabanol Drahtseifett

### 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)	isobutane CAS No.: 75-28-5 EC No.: 200-857-2	① 1,000 ppm (2,400 mg/m <sup>3</sup> ) ② 4,000 ppm (9,600 mg/m <sup>3</sup> )
TRGS 900 (DE)	Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclics CAS No.: 64742-49-0 EC No.: 927-510-4	① 700 mg/m <sup>3</sup> ② 1,400 mg/m <sup>3</sup> ⑤ (C6-C8 Aliphaten)
TRGS 900 (DE)	propane CAS No.: 74-98-6 EC No.: 200-827-9	① 1,000 ppm (1,800 mg/m <sup>3</sup> ) ② 4,000 ppm (7,200 mg/m <sup>3</sup> )
TRGS 900 (DE)	butane CAS No.: 106-97-8 EC No.: 203-448-7	① 1,000 ppm (2,400 mg/m <sup>3</sup> ) ② 4,000 ppm (9,600 mg/m <sup>3</sup> )
IOELV (EU)	acetone CAS No.: 67-64-1 EC No.: 200-662-2	① 500 ppm (1,210 mg/m <sup>3</sup> )
TRGS 900 (DE)	acetone CAS No.: 67-64-1 EC No.: 200-662-2	① 500 ppm (1,200 mg/m <sup>3</sup> ) ② 1,000 ppm (2,400 mg/m <sup>3</sup> )

##### 8.1.2. Biological limit values

Limit value type (country of origin)	Substance name	Limit value	① parameter ② Test material ③ Time of sampling ④ Remark
TRGS 903 (DE)	acetone CAS No.: 67-64-1 EC No.: 200-662-2	80 mg/L	① Aceton ② Urin ③ Expositionsende bzw. Schichtende
BAT (DE)	acetone CAS No.: 67-64-1 EC No.: 200-662-2	50 mg/L	① Aceton ② Urin ③ Expositionsende bzw. Schichtende

##### 8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane CAS No.: 92128-66-0 EC No.: 921-024-6	2,035 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane CAS No.: 92128-66-0 EC No.: 921-024-6	608 mg/m <sup>3</sup>	① DNEL Consumer ② Long-term - inhalation, systemic effects
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane CAS No.: 92128-66-0 EC No.: 921-024-6	773 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects

# SAFETY DATA SHEET

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

**Revision date:** 21 Oct 2021

**Print date:** 21 Oct 2021

**Version:** 2



Page 6/15

## Mabanol Drahtseifett

Substance name	DNEL value	① DNEL type ② Exposure route
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cycl ics, <5% n-hexane CAS No.: 92128-66-0 EC No.: 921-024-6	699 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
calcium bis(dinonylnaphthalenesulphonate) CAS No.: 57855-77-3 EC No.: 260-991-2	5 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
calcium bis(dinonylnaphthalenesulphonate) CAS No.: 57855-77-3 EC No.: 260-991-2	10 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects

Substance name	PNEC Value	① PNEC type
calcium bis(dinonylnaphthalenesulphonate) CAS No.: 57855-77-3 EC No.: 260-991-2	0.004 mg/l	① PNEC aquatic, freshwater
calcium bis(dinonylnaphthalenesulphonate) CAS No.: 57855-77-3 EC No.: 260-991-2	0.0004 mg/l	① PNEC aquatic, marine water
calcium bis(dinonylnaphthalenesulphonate) CAS No.: 57855-77-3 EC No.: 260-991-2	10 mg/kg	① PNEC sewage treatment plant
calcium bis(dinonylnaphthalenesulphonate) CAS No.: 57855-77-3 EC No.: 260-991-2	69 mg/kg	① PNEC sediment, freshwater
calcium bis(dinonylnaphthalenesulphonate) CAS No.: 57855-77-3 EC No.: 260-991-2	6.9 mg/kg	① PNEC sediment, marine water
calcium bis(dinonylnaphthalenesulphonate) CAS No.: 57855-77-3 EC No.: 260-991-2	22.2 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/vapour/aerosol.

#### 8.2.2. Personal protection equipment

##### Eye/face protection:

Eye glasses with side protection (EN 166).

##### Skin protection:

Use protective skin cream before handling the product.

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

Suitable material: NBR (Nitrile rubber). PVC (polyvinyl chloride). CR (polychloroprene, chloroprene rubber).

Thickness of the glove material:  $\geq 0,4$  mm. Breakthrough 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.

Suitable protective clothing: flame-resistant.

Flame-retardant protective clothing. Wear anti-static footwear and clothing

# SAFETY DATA SHEET

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

Revision date: 21 Oct 2021

Print date: 21 Oct 2021

Version: 2

Page 7/15



## Mabanol Drahtseifett

### Respiratory protection:

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

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

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

Physical state: Aerosol

Colour: dark brown

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	<i>not determined</i>			
Upper/lower flammability or explosive limits	0.6 - 15 Vol-%			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	0.793 g/cm <sup>3</sup>	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>			

### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

# SAFETY DATA SHEET

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

Revision date: 21 Oct 2021

Print date: 21 Oct 2021

Version: 2

Page 8/15



## Mabanol Drahtseif fett

### 10.3. Possibility of hazardous reactions

Do not expose to temperatures above 50 °C. Heating causes rise in pressure with risk of bursting.

### 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.

### 10.5. Incompatible materials

Oxidizing agent. Pyrophoric or self-heating substances.

### 10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). aldehydes. carbon black. Gases/vapours, toxic.

### 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
isobutane CAS No.: 75-28-5 EC No.: 200-857-2	<b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> 1,237 mg/l (Mouse)
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane CAS No.: 92128-66-0 EC No.: 921-024-6	<b>LD<sub>50</sub> oral:</b> >5,000 mg/kg (Rat) <b>LD<sub>50</sub> dermal:</b> >2,800 mg/kg (Rat) <b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> >25.2 mg/l (Rat)
Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclics CAS No.: 64742-49-0 EC No.: 927-510-4	<b>LD<sub>50</sub> oral:</b> 5,500 mg/kg (Rat) <b>LD<sub>50</sub> dermal:</b> 2,770 mg/kg (Rat) <b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> 23.3 mg/l 4 h (Rat)
calcium bis(dinonylnaphthalenesulphonate) CAS No.: 57855-77-3 EC No.: 260-991-2	<b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> >18 mg/l 1 h (Rat)
butane CAS No.: 106-97-8 EC No.: 203-448-7	<b>LC<sub>50</sub> Acute inhalation toxicity (gas):</b> 658 ppmV 4 h (Rat)
acetone CAS No.: 67-64-1 EC No.: 200-662-2	<b>LD<sub>50</sub> oral:</b> 5,800 mg/kg (Rat) <b>LD<sub>50</sub> dermal:</b> 20,000 mg/kg (Rabbit) <b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> 76 mg/l 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:

Causes skin irritation.

#### Serious eye damage/irritation:

Causes serious eye irritation.



# SAFETY DATA SHEET

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

Revision date: 21 Oct 2021

Print date: 21 Oct 2021

Version: 2

Page 9/15



## Mabanol Drahtseif fett

### Respiratory or skin sensitisation:

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

### 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:

May cause drowsiness or dizziness.

### 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.

### 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
isobutane CAS No.: 75-28-5 EC No.: 200-857-2	<b>LC<sub>50</sub></b> : 91.42 mg/l 4 d (fish) <b>ErC<sub>50</sub></b> : 19.37 mg/l 4 d (Algae/water plant) <b>EC<sub>50</sub></b> : 69.43 mg/l 2 d (crustaceans)
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane CAS No.: 92128-66-0 EC No.: 921-024-6	<b>LC<sub>50</sub></b> : 1 - <10 mg/l 4 d (fish, Pimephales promelas (fath ead minnow)) <b>ErC<sub>50</sub></b> : 10 - <30 mg/l 3 d (Algae/water plant, Pseudokir chneriella subcapitata) <b>EC<sub>50</sub></b> : 1 - <10 mg/l 2 d (crustaceans, Daphnia magna (Big water flea)) <b>NOEC</b> : 2,045 mg/l 28 d (fish, Oncorhynchus mykiss (Rainbow trout)) <b>NOEC</b> : 1 mg/l 21 d (crustaceans, Daphnia magna (Big water flea))
Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclics CAS No.: 64742-49-0 EC No.: 927-510-4	<b>LC<sub>50</sub></b> : >1 - 10 mg/l 4 d (fish, Oncorhynchus mykiss (Rainbow trout)) <b>ErC<sub>50</sub></b> : >10 - 100 mg/l 3 d (Algae/water plant) <b>EC<sub>50</sub></b> : >1 - 10 mg/l 2 d (crustaceans, Daphnia magna (Big water flea))
propane CAS No.: 74-98-6 EC No.: 200-827-9	<b>LC<sub>50</sub></b> : 49.9 mg/l 4 d (fish) <b>ErC<sub>50</sub></b> : 19.4 mg/l 4 d (Algae/water plant) <b>EC<sub>50</sub></b> : 69.4 mg/l 2 d (crustaceans)
calcium bis(dinonylnaphthalenesulphonate) CAS No.: 57855-77-3 EC No.: 260-991-2	<b>EC<sub>50</sub></b> : >0.27 mg/l 2 d (crustaceans, Daphnia magna (Big water flea)) <b>NOEC</b> : 4.5 mg/l 21 d (crustaceans, Daphnia magna (Big water flea))
butane CAS No.: 106-97-8 EC No.: 203-448-7	<b>LC<sub>50</sub></b> : 49.9 mg/l 4 d (fish) <b>ErC<sub>50</sub></b> : 19.37 mg/l 4 d (Algae/water plant) <b>EC<sub>50</sub></b> : 69.43 mg/l 2 d (crustaceans)

# SAFETY DATA SHEET

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

Revision date: 21 Oct 2021

Print date: 21 Oct 2021

Version: 2

Page 10/15



## Mabanol Drahtseif Fett

Substance name	Toxicological information
acetone CAS No.: 67-64-1 EC No.: 200-662-2	<b>LC<sub>50</sub></b> : 5,540 mg/l 4 d (fish, Oncorhynchus mykiss (Rainbow trout)) <b>EC<sub>50</sub></b> : 6,100 mg/l 2 d (crustaceans, Daphnia magna (Big water flea))

### \* 12.2. Persistence and degradability

#### Additional information:

The product has not been tested.

### \* 12.3. Bioaccumulative potential

Substance name	Log K <sub>ow</sub>	Bioconcentration factor (BCF)
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	
calcium bis(dinonylnaphthalenesulphonate) CAS No.: 57855-77-3 EC No.: 260-991-2	6.6	3.16 Species: fish
butane CAS No.: 106-97-8 EC No.: 203-448-7	2.89	
acetone CAS No.: 67-64-1 EC No.: 200-662-2	-0.24	

#### 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

Substance name	Results of PBT and vPvB assessment
isobutane CAS No.: 75-28-5 EC No.: 200-857-2	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane CAS No.: 92128-66-0 EC No.: 921-024-6	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclics CAS No.: 64742-49-0 EC No.: 927-510-4	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.
calcium bis(dinonylnaphthalenesulphonate) CAS No.: 57855-77-3 EC No.: 260-991-2	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.
acetone CAS No.: 67-64-1 EC No.: 200-662-2	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

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

# SAFETY DATA SHEET

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

Revision date: 21 Oct 2021

Print date: 21 Oct 2021

Version: 2

Page 11/15



## Mabanol Drahtseifett

\* **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**

Dispose of waste according to applicable legislation. 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 product:**

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

**Waste code packaging:**

15 01 04	metallic packaging
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**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)
<b>14.1. UN number or ID number</b>			
UN 1950	UN 1950	UN 1950	UN 1950
<b>14.2. UN proper shipping name</b>			
AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS, flammable
<b>14.3. Transport hazard class(es)</b>			
 2.1	 2.1	 2.1	 2.1
<b>14.4. Packing group</b>			
		-	
<b>14.5. Environmental hazards</b>			
No	No	No	No

# SAFETY DATA SHEET

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

Revision date: 21 Oct 2021

Print date: 21 Oct 2021

Version: 2

Page 12/15



## Mabanol Drahtseifett

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.6. Special precautions for user</b>			
<b>Special provisions:</b> 190, 327, 344, 625 <b>Limited quantity (LQ):</b> 1L <b>Excepted Quantities (EQ):</b> E0 <b>Hazard identification number (Kemler No.):</b> <b>Classification code:</b> 5F <b>tunnel restriction code:</b> (D) <b>Remark:</b> Transport category: 2 Warning: Flammable gases.	<b>Special provisions:</b> 190, 327, 344, 625 <b>Limited quantity (LQ):</b> 1L <b>Excepted Quantities (EQ):</b> E0 <b>Classification code:</b> 5F <b>Remark:</b> Warning: Flammable gases.	<b>Special provisions:</b> 63, 190, 277, 327, 344, 381, 959 <b>Limited quantity (LQ):</b> 1000 mL <b>Excepted Quantities (EQ):</b> E0 <b>EmS-No.:</b> F-D, , S-U <b>Remark:</b> Warning: Flammable gases.	<b>Special provisions:</b> A145, A167, A802 <b>Limited quantity (LQ):</b> 30 kg G <b>Excepted Quantities (EQ):</b> E0 <b>Remark:</b> Passenger LQ: Y203 Warning: Flammable gases.

**14.7. Maritime transport in bulk according to IMO instruments**  
not applicable.

## 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: isobutane; butane

29: Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane; Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclics

#### Other regulations (EU):

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive], Hazard categories:

• P3a 'Flammable' aerosols Category 1 or 2, containing flammable gases Category 1 or 2 or flammable liquids

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

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

Observe in addition any national regulations!

### 15.1.2. National regulations

#### [DE] National regulations

#### Restrictions of occupation

To follow: § 22 ArbSchG.

# SAFETY DATA SHEET

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

**Revision date:** 21 Oct 2021

**Print date:** 21 Oct 2021

**Version:** 2

Page 13/15



## Mabanol Drahtseifett

### Störfallverordnung

#### for substances possibly developing during an incident:

Hazard categories:

- P3a 'Flammable' aerosols Category 1 or 2, containing flammable gases Category 1 or 2 or flammable liquids

Named dangerous substances:

- Liquefied flammable gases, Category 1 or 2 (including liquefied petroleum gas) and natural gas

### Technische Anleitung Luft (TA-Luft)

#### Klasse 1:

5.2.5: organic substances, to be indicated as total carbon at  $m \geq 0.50$  kg/h: conc.  $50 \text{ mg/m}^3$

#### Anteil 1:

46.52 %

### Water hazard class

#### WGK:

2 - deutlich wassergefährdend

#### Remark:

Self-classification (mixture; calculation rule).

### 15.2. Chemical Safety Assessment

No data available

## SECTION 16: Other information

### \* 16.1. Indication of changes

1.1.	Product identifier
2.2.	Label elements
4.2.	Most important symptoms and effects, both acute and delayed
7.1.	Precautions for safe handling
7.2.	Conditions for safe storage, including any incompatibilities
8.1.	Control parameters
8.2.	Exposure controls
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

# SAFETY DATA SHEET

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

**Revision date:** 21 Oct 2021

**Print date:** 21 Oct 2021

**Version:** 2

Page 14/15



## Mabanol Drahtseifett

### 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.; Pressurised container: May burst if heated.	
STOT-single exposure ( <i>STOT SE 3</i> )	H336: May cause drowsiness or dizziness.	
Skin corrosion/irritation ( <i>Skin Irrit. 2</i> )	H315: Causes skin irritation.	
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:** 21 Oct 2021

**Version:** 2

Page 15/15



## Mabanol Drahtseilfett

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

Hazard statements	
H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

Supplemental hazard information	
EUH066	Repeated exposure may cause skin dryness or cracking.

### 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