

SAFETY DATA SHEET

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

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Mabanol Sigma Food EP 2-95

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

1.1. Product identifier

Trade name/designation:

Mabanol Sigma Food EP 2-95

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

Use of the substance/mixture:

Fat

1.3. Details of the supplier of the safety data sheet

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

Mabanol GmbH & Co. KG

Am Strandkai 1

20457 Hamburg

Germany

Telephone: 0049 (0) 40 36809988

E-mail: info@mabanol.com

Website: www.mabanol.com

E-mail (competent person): giznord@giz-nord.de

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]

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2. Label elements

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

Supplemental hazard information

| | |
|--------|---|
| EUH208 | Contains Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts; Sulfonic acids, petroleum, calcium salts. May produce an allergic reaction. |
| EUH210 | Safety data sheet available on request. |

Additional information:

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

2.3. Other hazards

No data available

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

| Product identifiers | Substance name Classification according to Regulation (EC) No 1272/2008 [CLP] | Concentration |
|--|--|--------------------|
| CAS No.: 8042-47-5 EC No.: 232-455-8 REACH No.: 01-2119487078-27 | White mineral oil (petroleum) The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP]. Acute Toxicity Estimate ATE (oral) > 5,000 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, vapour) > 5 mg/L | 50 - < 70 weight-% |
| CAS No.: 68584-23-6 EC No.: 271-529-4 REACH No.: 01-2119492627-25 | Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts Skin Sens. 1B (H317) ⚠ Warning Specific concentration limit (SCL) Skin Sens. 1B; H317: C ≥ 10% Acute Toxicity Estimate ATE (oral) < 5,000 mg/kg ATE (dermal) < 5,000 mg/kg ATE (inhalation, gases) < 1.9 ppmV | 1 - < 10 weight-% |
| CAS No.: 61789-86-4 EC No.: 263-093-9 REACH No.: 01-2119488992-18 | Sulfonic acids, petroleum, calcium salts Skin Sens. 1B (H317) ⚠ Warning Specific concentration limit (SCL) Skin Sens. 1B; H317: C ≥ 10% Acute Toxicity Estimate ATE (oral) > 5,000 mg/kg ATE (dermal) > 5,000 mg/kg ATE (inhalation, gases) > 1.9 ppmV | 1 - < 10 weight-% |
| CAS No.: 64742-65-0 EC No.: 265-169-7 REACH No.: 01-2119471299-27 | Distillates (petroleum), solvent-dewaxed heavy paraffinic The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP]. Acute Toxicity Estimate ATE (oral) > 5,000 mg/kg ATE (dermal) > 2,000 mg/kg | 1 - < 10 weight-% |
| CAS No.: 68411-46-1 EC No.: 270-128-1 REACH No.: 01-2119491299-23 | Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene Repr. 2 (H361f) ⚠ Warning Acute Toxicity Estimate ATE (oral) > 5,000 mg/kg ATE (dermal) > 2,000 mg/kg | 1 - < 3 weight-% |
| CAS No.: 26264-06-2 EC No.: 247-557-8 REACH No.: 01-2120122335-68 | calcium dodecylbenzenesulphonate Acute Tox. 4 (H302), Aquatic Chronic 4 (H413), Eye Dam. 1 (H318), Skin Irrit. 2 (H315) ⚠ Danger Acute Toxicity Estimate ATE (oral) 500 mg/kg | 1 - < 2.5 weight-% |
| CAS No.: 70024-69-0 EC No.: 274-263-7 REACH No.: 01-2119492616-28 | Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts Skin Sens. 1B (H317) ⚠ Warning Specific concentration limit (SCL) Skin Sens. 1B; H317: 10% ≤ C < 100% Acute Toxicity Estimate ATE (oral) > 5,000 mg/kg ATE (dermal) > 2,000 mg/kg | 0.1 - < 1 weight-% |

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

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SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

When in doubt or if symptoms are observed, get medical advice. If unconscious but breathing normally, place in recovery position and seek medical advice.

Following inhalation:

Remove casualty to fresh air and keep warm and at rest. Where appropriate artificial ventilation. In case of respiratory tract irritation, consult a physician.

In case of skin contact:

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

After eye contact:

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Following ingestion:

Call a physician immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person or a person with cramps. Call a doctor if you feel unwell.

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

No information available.

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

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Extinguishing powder. Carbon dioxide (CO₂). alcohol resistant foam. Sand. Water spray jet.

Unsuitable extinguishing media:

Full water jet.

5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke.

Hazardous combustion products:

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

5.3. Advice for firefighters

Do not inhale explosion and combustion gases. 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. 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. Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

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6.3. Methods and material for containment and cleaning up

For containment:

Collect spillage.

For cleaning up:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

6.4. Reference to other sections

Personal protection equipment: see section 8

Disposal: see section 13

6.5. Additional information

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). Special danger of slipping by leaking/spilling product.

Fire prevent measures:

Usual measures for fire prevention. Keep away from sources of ignition - No smoking.

Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin. Do not breathe gas/fumes/vapour/spray. Wash hands before breaks and after work. Thorough skin-cleansing after handling the product. 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 sources of heat (e.g. hot surfaces), sparks and open flames. Keep away from sources of ignition - No smoking.

Hints on storage assembly:

Do not store together with: Food and feedingstuffs.

Keep away from: Oxidizing agent.

Storage class (TRGS 510, Germany): 11 - Combustible solids that cannot be assigned to any of the above storage classes

Further information on storage conditions:

Temperature control required. Keep container tightly closed.

Protect against: Air. Light. UV-radiation/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) from 1 Sept 2015 | White mineral oil (petroleum) CAS No.: 8042-47-5 EC No.: 232-455-8 | ① 5 mg/m ³ ② 20 mg/m ³ ⑤ (alveolengängige Fraktion) DFG, Y |
| TRGS 900 (DE) from 1 Sept 2015 | Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9 | ① 5 mg/m ³ ② 20 mg/m ³ ⑤ (alveolengängige Fraktion) DFG |

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 |
|--|--------------------------|---|
| White mineral oil (petroleum) CAS No.: 8042-47-5 EC No.: 232-455-8 | 164.56 mg/m ³ | ① DNEL worker ② Long-term - inhalation, systemic effects |
| White mineral oil (petroleum) CAS No.: 8042-47-5 EC No.: 232-455-8 | 34.78 mg/m ³ | ① DNEL Consumer ② Long-term - inhalation, systemic effects |
| White mineral oil (petroleum) CAS No.: 8042-47-5 EC No.: 232-455-8 | 217.5 mg/kg bw/day | ① DNEL worker ② Long-term - dermal, systemic effects |
| White mineral oil (petroleum) CAS No.: 8042-47-5 EC No.: 232-455-8 | 93.02 mg/kg bw/day | ① DNEL Consumer ② Long-term - dermal, systemic effects |
| White mineral oil (petroleum) CAS No.: 8042-47-5 EC No.: 232-455-8 | 25 mg/kg bw/ day | ① DNEL Consumer ② Long-term - oral, systemic effects |
| Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9 | 11.75 mg/m ³ | ① DNEL worker ② Long-term - inhalation, systemic effects |
| Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9 | 3.33 mg/kg bw/day | ① DNEL worker ② Long-term - dermal, systemic effects |
| Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9 | 1.03 mg/cm ² | ① DNEL worker ② Long-term - dermal, local effects |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic CAS No.: 64742-65-0 EC No.: 265-169-7 | 2.73 mg/m ³ | ① DNEL worker ② Long-term - inhalation, systemic effects |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic CAS No.: 64742-65-0 EC No.: 265-169-7 | 5.58 mg/m ³ | ① DNEL worker ② Long-term - inhalation, local effects |

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| Substance name | DNEL value | ① DNEL type ② Exposure route |
|--|-------------------------|---|
| Distillates (petroleum), solvent-dewaxed heavy paraffinic CAS No.: 64742-65-0 EC No.: 265-169-7 | 1.19 mg/m ³ | ① DNEL Consumer ② Long-term - inhalation, local effects |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic CAS No.: 64742-65-0 EC No.: 265-169-7 | 0.97 mg/kg bw/day | ① DNEL worker ② Long-term - dermal, systemic effects |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic CAS No.: 64742-65-0 EC No.: 265-169-7 | 0.74 mg/kg bw/day | ① DNEL Consumer ② Long-term - oral, systemic effects |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1 EC No.: 270-128-1 | 0.8 mg/m ³ | ① DNEL worker ② Long-term - inhalation, systemic effects |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1 EC No.: 270-128-1 | 0.31 mg/m ³ | ① DNEL Consumer ② Long-term - inhalation, systemic effects |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1 EC No.: 270-128-1 | 0.22 mg/kg bw/day | ① DNEL worker ② Long-term - dermal, systemic effects |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1 EC No.: 270-128-1 | 0.44 mg/kg bw/day | ① DNEL Consumer ② Long-term - dermal, systemic effects |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1 EC No.: 270-128-1 | 0.05 mg/kg bw/day | ① DNEL Consumer ② Long-term - oral, systemic effects |
| Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7 | 11.75 mg/m ³ | ① DNEL worker ② Long-term - inhalation, systemic effects |
| Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7 | 2.9 mg/m ³ | ① DNEL Consumer ② Long-term - inhalation, systemic effects |
| Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7 | 3.33 mg/kg bw/day | ① DNEL worker ② Long-term - dermal, systemic effects |
| Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7 | 1.667 mg/kg bw/day | ① DNEL Consumer ② Long-term - dermal, systemic effects |
| Substance name | PNEC Value | ① PNEC type |
| Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9 | 1 mg/L | ① PNEC aquatic, freshwater |
| Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9 | 1 mg/L | ① PNEC aquatic, marine water |

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| Substance name | PNEC Value | ① PNEC type |
|--|------------------------|--------------------------------------|
| Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9 | 1,000 mg/L | ① PNEC sewage treatment plant |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic CAS No.: 64742-65-0 EC No.: 265-169-7 | 9.33 mg/kg | ① PNEC secondary poisoning |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1 EC No.: 270-128-1 | 0.034 mg/L | ① PNEC aquatic, freshwater |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1 EC No.: 270-128-1 | 0.003 mg/L | ① PNEC aquatic, marine water |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1 EC No.: 270-128-1 | 10 mg/L | ① PNEC sewage treatment plant |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1 EC No.: 270-128-1 | 0.446 mg/kg | ① PNEC sediment, freshwater |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1 EC No.: 270-128-1 | 0.045 mg/kg | ① PNEC sediment, marine water |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1 EC No.: 270-128-1 | 17.6 mg/kg | ① PNEC soil |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1 EC No.: 270-128-1 | 0.8333 mg/kg | ① PNEC secondary poisoning |
| Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7 | 1 mg/L | ① PNEC aquatic, freshwater |
| Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7 | 1 mg/L | ① PNEC aquatic, marine water |
| Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7 | 1,000 mg/L | ① PNEC sewage treatment plant |
| Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7 | 16.667 mg/kg bw/day | ① PNEC secondary poisoning |
| Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7 | 10 mg/L | ① PNEC aquatic, intermittent release |

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Provide adequate ventilation.

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8.2.2. Personal protection equipment



Eye/face protection:

Eye glasses with side protection (EN 166).

Skin protection:

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

Suitable material: NBR (Nitrile rubber). CR (polychloroprene, chloroprene rubber). FKM (fluoro rubber). 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.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Respiratory protection necessary at: exceeding exposure limit values. insufficient ventilation. aerosol or mist formation.

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: Paste

Colour: light brown

Odour: not determined

Safety relevant basis data

| Parameter | Value | at °C | ① Method ② Remark |
|---|-----------------------|-------|----------------------|
| Initial boiling point and boiling range | No data available | | |
| Flash point | > 180 °C | | ① COC |
| Evaporation rate | No data available | | |
| Vapour pressure | No data available | | |
| Relative density | 0.95 - 1.05 | 25 °C | |
| Water solubility | practically insoluble | | |

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 chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Heat.

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10.5. Incompatible materials

Oxidising agent, strong. Acids. Reducing agent.

10.6. Hazardous decomposition products

Hazardous combustion products: Carbon monoxide. Carbon dioxide (CO₂). Sulphur oxides.

SECTION 11: Toxicological information

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

Toxicological information

| Mixture related information |
|--|
| LD₅₀ oral: >2,000 mg/kg Calculation method. |
| Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts CAS No.: 68584-23-6 EC No.: 271-529-4 |
| LD₅₀ oral: <5,000 mg/kg (Rat) OECD 401 |
| LD₅₀ dermal: <5,000 mg/kg (Rat) OECD 402 |
| LC₅₀ Acute inhalation toxicity (gas): <1.9 ppmV 4 h (Rat) OECD 403 |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1 EC No.: 270-128-1 |
| LD₅₀ oral: >5,000 mg/kg (Rat) OECD 401 |
| LD₅₀ dermal: >2,000 mg/kg (Rat) OECD 402 |
| Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9 |
| LD₅₀ oral: >5,000 mg/kg (Rat) |
| LD₅₀ dermal: >5,000 mg/kg (Rat) |
| LC₅₀ Acute inhalation toxicity (gas): >1.9 ppmV 4 h (Rat) |
| Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7 |
| LD₅₀ oral: >5,000 mg/kg (Rat) |
| LD₅₀ dermal: >2,000 mg/kg (Rabbit) |
| White mineral oil (petroleum) CAS No.: 8042-47-5 EC No.: 232-455-8 |
| LD₅₀ oral: >5,000 mg/kg (Rat) |
| LD₅₀ dermal: >2,000 mg/kg (Rabbit) |
| LC₅₀ Acute inhalation toxicity (vapour): >5 mg/L 4 h (Rat) |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic CAS No.: 64742-65-0 EC No.: 265-169-7 |
| LD₅₀ oral: >5,000 mg/kg (Rat) OECD 401 |
| LD₅₀ dermal: >2,000 mg/kg (Rabbit) OECD 402 |

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:

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.

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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.

Additional information:

Frequently or prolonged contact with skin may cause dermal irritation.

11.2. Information on other hazards

Endocrine disrupting properties:

The mixture does not contain substances $\geq 0.1\%$ of substances that have endocrine disrupting properties according to Regulation (EC) No. 1907/2006, Article 59(1) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605.

SECTION 12: Ecological information

12.1. Toxicity

| |
|--|
| Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts CAS No.: 68584-23-6 EC No.: 271-529-4 |
| LC ₅₀ : >1,000 mg/L 4 d (fish) |
| EC ₅₀ : >1,000 mg/L 4 d (crustaceans) |
| NOEC: >1,000 mg/L 21 d (Algae/water plant) |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1 EC No.: 270-128-1 |
| LC ₅₀ : >100 mg/L (fish, Danio rerio (zebrafish)) OECD 203 |
| EC ₅₀ : >100 mg/L (Algae/water plant, Desmodemus subspicatus) OECD 201 |
| EC ₅₀ : 51 mg/L (crustaceans, Daphnia magna (Big water flea)) OECD 202 |
| Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9 |
| LC ₅₀ : 1,000 mg/L 4 d (fish) |
| EC ₅₀ : 1,000 mg/L 2 d (crustaceans) |
| EC ₅₀ : 1,000 mg/L 3 d (Algae/water plant) |
| Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7 |
| LC ₅₀ : >1,000 mg/L 4 d (fish) |
| EC ₅₀ : >1,000 mg/L 2 d (crustaceans, Daphnia magna (Big water flea)) |
| ErC ₅₀ : >1,000 mg/L 3 d (Algae/water plant) |
| White mineral oil (petroleum) CAS No.: 8042-47-5 EC No.: 232-455-8 |
| LC ₅₀ : >10,000 mg/L 4 d (fish, Lepomis macrochirus (Bluegill)) |
| ErC ₅₀ : ≥ 100 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) |
| EC ₅₀ : >100 mg/L 2 d (crustaceans, Daphnia magna (Big water flea)) OECD 202 |
| NOEC: $\geq 1,000$ mg/L 28 d (fish, EpiSuite QSAR tool) |
| NOEC: $\geq 1,000$ mg/L 21 d (crustaceans, Daphnia magna (Big water flea)) |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic CAS No.: 64742-65-0 EC No.: 265-169-7 |
| LC ₅₀ : >100 mg/L 4 d (fish, Pimephales promelas (fathead minnow)) OECD 203 |
| NOEC: $\geq 1,000$ mg/L 12 d (fish, Oncorhynchus mykiss (Rainbow trout)) |

Aquatic toxicity:

Harmful to aquatic life with long lasting effects.

Additional ecotoxicological information:

Do not allow uncontrolled discharge of product into the environment.

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12.2. Persistence and degradability

| |
|---|
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1 EC No.: 270-128-1 |
|---|

| |
|--------------------------|
| Biodegradation: — |
|--------------------------|

| |
|--|
| Remark: Not readily biodegradable (according to OECD criteria). |
|--|

| |
|---|
| White mineral oil (petroleum) CAS No.: 8042-47-5 EC No.: 232-455-8 |
|---|

| |
|--------------------------|
| Biodegradation: — |
|--------------------------|

| |
|---|
| Remark: Not readily biodegradable (according to OECD criteria) |
|---|

Abiotic degradation:

The product is slightly soluble in water. It can be largely eliminated from the water by abiotic processes, e.g. mechanical separation.

12.3. Bioaccumulative potential

| |
|---|
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1 EC No.: 270-128-1 |
|---|

| |
|---------------------------------|
| Log K_{OW}: 6.66 |
|---------------------------------|

| |
|---|
| Bioconcentration factor (BCF): 4,176 |
|---|

| |
|---|
| Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7 |
|---|

| |
|----------------------------------|
| Log K_{OW}: 22.12 |
|----------------------------------|

| |
|---|
| White mineral oil (petroleum) CAS No.: 8042-47-5 EC No.: 232-455-8 |
|---|

| |
|--------------------------------|
| Log K_{OW}: > 4 |
|--------------------------------|

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

| |
|--|
| Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts CAS No.: 68584-23-6 EC No.: 271-529-4 |
|--|

| |
|---|
| Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. |
|---|

| |
|---|
| calcium dodecylbenzenesulphonate CAS No.: 26264-06-2 EC No.: 247-557-8 |
|---|

| |
|---|
| Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. |
|---|

| |
|---|
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1 EC No.: 270-128-1 |
|---|

| |
|---|
| Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. |
|---|

| |
|---|
| Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9 |
|---|

| |
|---|
| Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. |
|---|

| |
|---|
| Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7 |
|---|

| |
|---|
| Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. |
|---|

| |
|---|
| White mineral oil (petroleum) CAS No.: 8042-47-5 EC No.: 232-455-8 |
|---|

| |
|---|
| Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. |
|---|

| |
|--|
| Distillates (petroleum), solvent-dewaxed heavy paraffinic CAS No.: 64742-65-0 EC No.: 265-169-7 |
|--|

| |
|---|
| Results of PBT and vPvB assessment: 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.

The above statement applies to the substances contained in the product from 0.1%.

12.6. Endocrine disrupting properties

The mixture does not contain substances $\geq 0.1\%$ of substances that have endocrine disrupting properties according to Regulation (EC) No. 1907/2006, Article 59(1) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605.

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

Waste treatment options

Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Dispose of waste according to applicable legislation.

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 | | | |
| 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. | No dangerous good in sense of these transport regulations. |
| 14.2. UN proper shipping name | | | |
| No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. |
| 14.3. Transport hazard class(es) | | | |
| not relevant | not relevant | not relevant | not relevant |
| 14.4. Packing group | | | |
| not relevant | not relevant | not relevant | not relevant |
| 14.5. Environmental hazards | | | |
| not relevant | not relevant | not relevant | not relevant |
| 14.6. Special precautions for user | | | |
| not relevant | not relevant | not relevant | not relevant |

14.7. Maritime transport in bulk according to IMO instruments

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

Restrictions on use:

Use restriction according to REACH annex XVII, no.: 75.

Other regulations (EU):

This product is not assigned to a hazard category.

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.

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: Not subject to the SEVESO III directive.

Observe in addition any national regulations!

15.1.2. National regulations

[DE] National regulations

Störfallverordnung (12. BImSchV)

for substances contained in the product:

This product is not assigned to a hazard category.

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Water hazard class

WGK:

2 - obviously hazardous to water

15.2. Chemical Safety Assessment

No information available.

15.3. Additional information

Water hazard class (WGK): 2 (obviously hazardous to water).

SECTION 16: Other information

16.1. Indication of changes

No data available

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

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16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

| Hazard statements | |
|-------------------|---|
| H302 | Harmful if swallowed. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H361f | Suspected of damaging fertility. |
| 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.