

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

1.1. Product identifier

| | |
|--------------------|---------------------|
| Trade name | Marisol SR |
| Article No. | 24-4636 |
| UFI code | 6TP3-10RC-R002-1KU0 |

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

| | |
|---------------------------------|-----------------------------------|
| Product type | Soot Remover |
| Relevant identified uses | Restricted to professional users. |

1.3. Details of the supplier of the safety data sheet

| | |
|-----------------|-------------------------------------------------------|
| Supplier | AB DFS |
| Street address | Fiskebäcks Hamn 7 426 58 Västra Frölunda Sweden |
| Telephone | 031-29 14 35 |
| Email | order@dfs-ab.se |
| Web site | www.dfs-ab.se |

1.4. Emergency telephone number

| | |
|---------------------------------------|-----|
| Emergency phone number | 112 |
| Available outside office hours | Yes |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

| | |
|-----------------------|------------------------------------------------------------------------------|
| Classification | Eye irritation, hazard category 2 Acute toxicity, oral, hazard category 4 |
|-----------------------|------------------------------------------------------------------------------|

| | |
|--------------------------|------------|
| Hazard statements | H302, H319 |
|--------------------------|------------|

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



| | |
|--------------------|---------|
| Signal word | Warning |
|--------------------|---------|

| | |
|--------------------------|-------------------------------------------------------------------|
| Hazard statements | H302 Harmful if swallowed. H319 Causes serious eye irritation. |
|--------------------------|-------------------------------------------------------------------|

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Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P264 Wash hands thoroughly after handling.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

More information

Contains: Ammonium chloride

2.3. Other hazards

Other hazards

This mixture does not contain any REACH registered substances that are assessed to be a PBT or a vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

| Chemical name | CAS No. EC No. REACH No. Index No. | Concentration | Classification | H-phrase M factor acute M factor chronic | Note |
|-------------------|---------------------------------------------|---------------|--------------------------------------|------------------------------------------------|------|
| Ammonium chloride | 12125-02-9 235-186-4 - - | 30 - <100% | Acute Tox. 4 - oral, Eye Irrit. 2 | H302, H319 - - | - |

Substance additional information

Section 16 for the full text of H-phrases mentioned in this section.

SECTION 4: First aid measures

4.1. Description of first aid measures

Description of first aid measures

In uncertainty or when symptoms persist, seek medical attention.

Inhalation

Fresh air and rest. Keep an eye on the injured person. Consult a physician.

Skin contact

Immediately remove contaminated clothing and wash skin with soap and water. Call a physician if symptoms occur.

Eye contact

In case of eye contact, remove contact lenses and rinse immediately with plenty of water, even under the eyelids, for several minutes. If symptoms persist, call a physician.

Ingestion

Visit a doctor or hospital immediately. Clean mouth with water and drink afterwards plenty of water.

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

Eye contact

Causes serious eye irritation.

Ingestion

Harmful if swallowed.

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

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with powder carbon dioxide, alcohol-resistant foam or water spray.

Unsuitable extinguishing media Do not use a direct jet of water.

5.2. Special hazards arising from the substance or mixture

Special hazards arising from the substance or mixture Toxic/irritating smoke.

5.3. Advice for firefighters

Special protective equipment for fire-fighters Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face mask. Firefighter equipment (eg helmet, safety boots and gloves) that complies with the European standard EN 469, provides basic protection in the event of chemical accidents.

Measures in case of fire Prevent firefighting water to reach water or sewers. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions, protective equipment and emergency procedures Ensure good ventilation. Avoid inhalation of dust and contact with skin and eyes. Wear suitable protective equipment.

6.2. Environmental precautions

Environmental precautions Prevent entry to sewers and public waters. Inform the responsible authorities in case of gas leakage, or of entry into waterways, soil or drains.

6.3. Methods and material for containment and cleaning up

Methods and material for containment and cleaning up Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

6.4. Reference to other sections

Reference to other sections Personal protection see section 8 and for disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions Mechanical ventilation or local extraction may be required. Avoid inhalation of dust and contact with skin and eyes.

General hygiene Emergency shower and eyewash shall be available at the work site. Wash hands after handling. Do not eat, drink or smoke when using the product. Take of contaminated clothing and wash before re-use.

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7.2. Conditions for safe storage, including any incompatibilities

Conditions for safe storage, including any incompatibilities

Store at room temperature in the original container. Keep in properly labelled containers. Keep away from food and animal feed. Keep in a frost-free place.

7.3. Specific end use(s)

Specific end use(s)

Identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits

Contains no substances with occupational exposure limit values.

8.2. Exposure controls

Appropriate engineering controls

Ensure good ventilation/extraction at the workplace.

Eye / face protection

Use goggles or face shield (EN 166).

Hand protection

For prolonged or repeated contact use protective gloves.
Protective gloves complying with EN 374.

Other skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. EN 136/140/145/143/149

Environmental exposure controls

Do not discharge into drains, drinking water supply or ground.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Dry powder

Colour

White.

Odour

Slight odour.

Melting point / freezing point

No information available

Boiling point or initial boiling point and boiling range

No information available

Flammability

No information available

Lower and upper explosion limit

No information available

Flash point

No data available

Auto-ignition temperature

No information available

Decomposition temperature

No information available

pH

7 (concentrate).

Kinematic viscosity

No information available

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Solubility Water-soluble

Partition coefficient n-octanol/water No information available

Vapour pressure No information available

Density and/or relative density No information available

Relative vapour density No information available

Particle characteristics Not relevant.

9.2. Other information

Other information No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Stable under recommended storage conditions.

10.2. Chemical stability

Chemical stability Stable under normal usage and storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Violent reaction under influence of oxidizing agents. Incompatible with bases. Reacts with nitrites.

10.4. Conditions to avoid

Conditions to avoid Incompatible with bases.

10.5. Incompatible materials

Incompatible materials Nitrites, nitrates, oxidizing agents. Bases.

10.6. Hazardous decomposition products

Hazardous decomposition products Hydrogen chloride, ammonia.

SECTION 11: Toxicological information

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

Acute toxicity Harmful if swallowed.

Skin corrosion/irritation Based on the available data, the classification criteria are not met.

Serious eye damage/irritation Causes serious eye irritation.

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

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

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

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STOT-single exposure Based on the available data, the classification criteria are not met.

STOT-repeated exposure Based on the available data, the classification criteria are not met.

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

LD50 Oral LD50 = 1410 mg/kg bw. OECD 401 (Rat).

LD50 Dermal LD50 > 2000 mg/kg bw. EU method B.3. (Rat).

11.2. Information on other hazards

Endocrine disrupting properties Contains no substances with endocrine disrupting properties.

Other information No information available

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity The product is not classified as environmentally harmful.

Acute fish toxicity

| Product / Substance name CAS / EC no. | Measurement type | Value / Result | Duration of exposure | Species |
|---------------------------------------------|------------------|----------------|----------------------|---------------------|
| Ammonium chloride 12125-02-9 / 235-186-4 | LC50 | 42,91 mg/l | 96h | Oncorhynchus mykiss |

Acute crustacean toxicity

| Product / Substance name CAS / EC no. | Measurement type | Value / Result | Species |
|---------------------------------------------|------------------|----------------|-----------------|
| Ammonium chloride 12125-02-9 / 235-186-4 | EC10 | 2.52 mg/l | Hyalella azteca |

12.2. Persistence and degradability

Persistence and degradability No information available

12.3. Bioaccumulative potential

Bioaccumulative potential Bioaccumulation is unlikely.

12.4. Mobility in soil

Mobility No information available

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This mixture does not contain any REACH registered substances that are assessed to be a PBT or a vPvB.

12.6. Endocrine disrupting properties

Endocrine disrupting properties Contains no substances with endocrine disrupting properties.

12.7. Other adverse effects

Other adverse effects No information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations

The product is hazardous waste. Dispose of any product, residue or packing material according to national and local regulations. Empty containers retain product residue and can be hazardous. Do not dispose of waste into sewer.

Packaging

Contaminated packaging must be disposed of as product. Emptied and cleaned packaging can be recycled.

| Waste code | Description |
|------------|----------------------------------------|
| 06 10 02* | wastes containing hazardous substances |

Please note - an asterisk (*) next to a code denotes that it is HAZARDOUS WASTE.

Other

Waste code

The waste code is a recommendation. Depends on business area and use. Appropriate classification of waste is the user's responsibility.

SECTION 14: Transport information

14.1. UN number

UN number

Not classified as dangerous in the meaning of transport regulations.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Label

Not applicable.

14.4. Packing group

Packing group

Not applicable.

14.5. Environmental hazards

Environmental hazards

Not applicable.

14.6. Special precautions for user

Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

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

EU regulations

Regulation (EC) No 1907/2006 of the European Parliament and of the Council, (REACH).
European Parliament and Council Regulation (EU) No 1272/2008 (CLP).
EUROPEAN PARLIAMENT AND COUNCIL REGULATION (EC) No 648/2004 on detergents.

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National regulations Local laws and regulations should be carefully observed.

15.2. Chemical safety assessment

Chemical safety assessment A chemical safety assessment has been performed for:
Ammonium chloride

SECTION 16: Other information

Changes to previous revision 1

Abbreviations

PBT: Persistent, Bioaccumulative and Toxic.
vPvB: very Persistent and very Bioaccumulative.
LD50: Lethal dose, the dose that kills 50% of a population.
LC50: Lethal concentration for 50% of a test population.
DNEL: Derived level without observed effects.
PNEC: Presumed concentration without observed effects.
EC10: is the effect concentration at which 10% effect (mortality, inhibition of growth, reproduction) is observed compared to the control group.

References to key literature and data sources

<http://echa.europa.eu>
<http://eur-lex.europa.eu>

Evaluation methods for classification

The classification is based on the addition method according to Regulation (EC) No 1272/2008 (CLP).

Phrase meaning

Acute Tox. 4 - oral - Acute toxicity, oral, hazard category 4
Eye Irrit. 2 - Eye irritation, hazard category 2
H302 Harmful if swallowed.
H319 Causes serious eye irritation.