

Material Safety Data Sheet

According to 91/155 EEC

Printing date 06.05.2005

Reviewed on 06.05.2005

1 Identification of substance:

· **Product details:**

· **Trade name:** Solufloc

· **Application of the substance / the preparation** Chemicals for various applications

· **Manufacturer/Supplier:**

Melspring International BV
Jansbuitensingel 20, P.O. Box 143
NL-6800 AC Arnhem

Phone: +31-(0)26-44 51 251
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· **Informing department:** Sales/ Technics

· **Emergency information:**

National (Dutch) Toxic Information Center
Phone: ++31-302748888

2 Composition/Data on components:

· **Chemical characterization:**

· **CAS No. Designation:**

16828-11-8 Aluminiumsulfat-16-hydrat

· **Identification number(s):**

· **EINECS Number:** 233-135-0

3 Hazards identification

· **Hazard designation:** void

· **Information pertaining to particular dangers for man and environment** void

4 First aid measures

· **General information** No special measures required.

· **After inhalation** Supply fresh air; consult doctor in case of symptoms.

· **After skin contact** The product is not skin irritating.

· **After eye contact**

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

· **After swallowing**

Rinse out mouth and then drink plenty of water.

In case of persistent symptoms consult doctor.

5 Fire fighting measures

· **Suitable extinguishing agents**

CO₂, extinguishing powder or water spray/fog. Fight larger fires with water spray/fog or alcohol-resistant foam.

· **For safety reasons unsuitable extinguishing agents** none

· **Special hazards caused by the material, its products of combustion or flue gases:**

Sulphur oxides (SO_x)

· **Protective equipment:** Wear self-contained breathing apparatus.

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· **Additional information** Collect contaminated fire fighting water separately. It must not enter drains.

6 Accidental release measures

- **Person-related safety precautions:** Ensure adequate ventilation.
- **Measures for environmental protection:**
Do not allow to enter drainage system, surface or ground water.
- **Measures for cleaning/collecting:**
Ensure adequate ventilation.
Collect mechanically.
Dispose of the material collected according to regulations.

7 Handling and storage

- **Handling**
- **Information for safe handling:**
Do not breathe dust.
Make sure that all applicable workplace limits are observed.
Avoid long or repeated skin contact.
No special measures required.
Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:** The product is not flammable.
- **Storage**
- **Requirements to be met by storerooms and containers:**
Observe all local and national regulations for storage of water polluting products.
- **Information about storage in one common storage facility:** Not required
- **Further information about storage conditions:**
Store under dry conditions.
Store in cool, dry conditions in well sealed containers.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with critical values that require monitoring at the workplace:**
Observe all workplace limits for dust:
OEL total dust: 10 mg/m³
OEL respirable dust: 3 mg/m³
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**
Avoid close or long term contact with the skin.
Keep away from foodstuffs, beverages and food.
Use skin protection cream for preventive skin protection.
Wash hands during breaks and at the end of the work.
- **Breathing equipment:**
If all workplace limits are observed and good ventilation is ensured,
no special precautions necessary.
Use breathing protection in case of dust formation.

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· **Protection of hands:**

Protective gloves

Check the permeability prior to each renewed use of the glove.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Not required.

9 Physical and chemical properties:

· **General Information**

Form:	powder
Colour:	white
Smell:	odourless

· **Change in condition**

Melting point/Melting range: 86 (Zers.)°C

Boiling point/Boiling range: not determined

· **Flash point:** not applicable

· **Inflammability (solid, gaseous)** Product is not inflammable.

· **Danger of explosion:** Product is not explosive.

· **Density at 20°C** 1.69 g/cm³

· **Solubility in / Miscibility with**

Water at 20°C: 300 g/l

· **pH-value (100 g/l) at 20°C:** ~4

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

· **Materials to be avoided:** Strong acids

· **Dangerous reactions** No dangerous reactions known.

· **Dangerous products of decomposition:** Sulphur oxides (SO_x)

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11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Longer lasting and/or repeated skin contact may cause irritation.
- **on the eye:** Weak irritating effect
- **Sensitization:** No sensitizing effect known.
- **Additional toxicological information:**
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information:

- **General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

13 Disposal considerations

- **Product:**
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Disposal must be made according to official regulations.
- **European waste catalogue**
Waste disposal key numbers from EWC have to be assigned depending on origin and processing.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID (cross-border)**

· **ADR/RID Class:** -

- **Maritime transport IMDG/GGVSea:**

· **IMDG/GGVSea Class:** -

- **Air transport ICAO-TI and IATA-DGR:**

· **ICAO/IATA Class:** -

- **Transport/Additional information:** Not dangerous according to the above specifications.

15 Regulatory information

- **Designation according to EC guidelines:**
The product has not to be classified and labelled in accordance with EC Directives / relevant national laws.
- **National regulations**
- **Decree to be applied in case of technical fault:** -

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· **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

16 Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing MSDS:**

C.S.B. GmbH

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· **Contact:**

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