SAFETY DATA SHEET according to EC Directive 2001/58/EC
Südflock P 294

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product information

Commercial Product Name : Südflock P 294

Company :

Telephone :

Telefax :

Contact Point :

Emergency telephone number :

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Flocculant on bentonite basis

Usage :
Application in, and as an aid for,
- Water, waste water and mud treatment

<table>
<thead>
<tr>
<th>Components</th>
<th>EINECS</th>
<th>Symbol(s)</th>
<th>R-phrase(s)</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALVEOLAR CONTENT OF CRYSTALLINE SILICA *) IN WHOLE PRODUCT</td>
<td></td>
<td></td>
<td></td>
<td>&lt; 0,50 %</td>
</tr>
<tr>
<td>ALVEOLAR DUST</td>
<td></td>
<td></td>
<td></td>
<td>&lt; 5,00 %</td>
</tr>
<tr>
<td>&lt; 7.1 µm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FREE CRYSTALLINE SILICA* IN ALVEOLAR DUST</td>
<td>238-878-4</td>
<td></td>
<td></td>
<td>&lt; 5,00 %</td>
</tr>
<tr>
<td>POLYMER</td>
<td></td>
<td>Xi</td>
<td>R41</td>
<td>&gt; 0,20 - &lt; 5,00 %</td>
</tr>
<tr>
<td>ALUMININIUM SULFATE</td>
<td>233-135-0</td>
<td>Xi</td>
<td>R41</td>
<td>&gt; 10,00 %</td>
</tr>
<tr>
<td>CALCIUM HYDROXIDE</td>
<td>215-137-3</td>
<td>Xi</td>
<td>R41</td>
<td>&gt; 10,00 %</td>
</tr>
</tbody>
</table>

(* including quartz, cristobalite, tridymite)

3. HAZARDS IDENTIFICATION

R41 - Risk of serious damage to eyes.
Avoid inhalation and/or exceeding of occupational limit value.

4. FIRST AID MEASURES

General advice : none
Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Skin contact : Wash off immediately with soap and plenty of water.
Inhalation : Move to fresh air.
Ingestion : Rinse mouth.
5. FIRE-FIGHTING MEASURES

Specific hazards during fire fighting: In case of fire can be formed: sulphur dioxide (SO2), sulphur trioxide (SO3)
Special protective equipment for fire-fighters: none
Suitable extinguishing media: The product itself does not burn. Use extinguishing measures appropriate to the environment.
Extinguishing media which must not be used for safety reasons: none

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid formation of dust and aerosols.
Environmental precautions: Do not flush into surface water or sanitary sewer system.
Methods for cleaning up: Take up uncontaminated material and pass on for further processing.
Additional advice: Avoid dust formation.

7. HANDLING AND STORAGE

Handling
Safe handling advice: Avoid formation of dust and aerosols.
Advice on protection against fire and explosion: No special precautions required.

Storage
Requirements for storage areas and containers: Keep container tightly closed and dry.
Advice on common storage: no restrictions
German storage class: 13 Non Combustible Solids

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Additional technical information on the plant: Local exhaust

Components with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value</th>
<th>Basis / Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>limiting value of inert dust</td>
<td>3 mg/m³</td>
<td>TRGS900</td>
<td>Jan. 2006</td>
</tr>
<tr>
<td>(alveolar content)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>limiting value of inert dust</td>
<td>10 mg/m³</td>
<td>TRGS900</td>
<td>Jan. 2006</td>
</tr>
<tr>
<td>(breathable content)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(* including cristobalit and tridymit)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Personal protective equipment
Respiratory protection: In case of formation of dust: Dust-mask/filter P2
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<table>
<thead>
<tr>
<th>Update</th>
<th>Print Date</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>03.11.2006</td>
<td>10/05/2011</td>
<td>1</td>
</tr>
</tbody>
</table>

- **Hand protection**: Chemical-resistant protective gloves according to EN 374, EN 388, EN 420
- **Eye protection**: safety glasses
- **Skin and body protection**: none
- **Hygiene measures**: Wash off with warm water and soap.
- **Protective measures**: Prophylactic use of protective ointment (barrier cream) is recommended.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance
- **Form**: powder
- **Colour**: yellow green
- **Odour**: none

**Other data**
- **Melting point**: n.a.
- **Boiling point**: n.a.
- **Flash point**: n.a.
- **Ignition temperature**: n.a.
- **Autoignition temperature**: none
- **Vapour pressure**: n.a.
- **Density**: n.a.
- **Bulk density**: 735 Kg/m³
- **Solubility**: low solubility

**Solubility/qualitative pH**: 6.5
- at 100 g/l (20 °C)
- Method: Aqueous suspension

- **Oxidizing properties**: Other data: none
- **Explosive properties**: Other data: none

### 10. STABILITY AND REACTIVITY

- **Hazardous reactions (Conditions to avoid)**: Thermal decomposition can take place above 400 °C.
- **Hazardous reactions (Materials to avoid)**: None known.
11. TOXICOLOGICAL INFORMATION

Acute toxicity

Acute oral toxicity : no data available

Irritation, Sensitization, Other data Toxicology

Eye irritation : Result: Severe eye irritation
Sensitization : no data available
Repeated dose toxicity : no data available
Human experience : In the event of long-term excess of the TLV value and extended inhalation effect, fine dust containing quartz may cause silicosis.

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Decomposition : Result: not biodegradable
Product is of mineral origin. In sewage water treatment plants, the product can be eliminated vastly from the water by means of adsorption to the activated sludge.

Distribution to environmental compartments : no data available
Ecotoxicity effects
Other data Ecotoxicity : no data available

Additional information about ecology : Under hitherto existing experiences in case of suitable use, the product doesn't cause impairments.
Water contaminating class : (Self classification acc. to German "VwWwS-concept") WGK 1 slightly water endangering

13. DISPOSAL CONSIDERATIONS

Product : Can be landfilled or incinerated, when in compliance with the Environmental Protection (Duty of Care) Regulations 1991. Contact manufacturer.
Contaminated packaging : Can be re-used after emptying and cleaning.
14. TRANSPORT INFORMATION

**Land transport**
ADR: Not classified as dangerous in the meaning of transport regulations.
RID: Not classified as dangerous in the meaning of transport regulations.

**Sea transport**
IMDG-CODE: Not classified as dangerous in the meaning of transport regulations.

**Air transport**
IATA_C: Not classified as dangerous in the meaning of transport regulations.
IATA_P: Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

**General advice**
The product is classified and labelled in accordance with the CHIPS Regulations 1994.

**Hazardous components which must be listed on the label:**
- ALUMINIUM SULFATE
- CALCIUM HYDROXIDE

**Symbol(s):** Xi Irritant

**R-phrase(s):** R41 Risk of serious damage to eyes.

**S-phrase(s):**
- S22 Do not breathe dust.
- S24/25 Avoid contact with skin and eyes.
- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S37/39 Wear suitable gloves and eye/face protection.
- S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**Notification status:** Preparation

<table>
<thead>
<tr>
<th>Components / CAS-No.</th>
<th>Registered in / No.</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>all components</td>
<td>EINECS</td>
<td>listed</td>
</tr>
</tbody>
</table>

16. OTHER INFORMATION

**Relevant R-Phrases acc. Chapter 2 and 3**
- R41 - Risk of serious damage to eyes.

Responsible for SDS:
The information presented herein is believed to be accurate, but is not warranted. It does not represent any assurance of properties of the product. The specifications are to be drawn from the corresponding leaflet.

A vertical bar (|) in the left margin indicates an amendment from the previous version.

Legend
n.a.: not applicable
n.av.: not available
n.r.: not relevant