SAFETY DATA SHEET

Safety Data Sheet according to (EC) No. 1907/2006

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

1.1. Product identifier:
Alhydrogel® 1.3%

1.2. Relevant identified uses of the substance or mixture and uses advised against:
Chemical solution for production. Only for professional use.

1.3. Details of the supplier of the safety data sheet:
BRENNTAG BIOSECTOR
Elsenbakken 23          Phone: +45 - 47 38 47 00
DK-3600 Frederikssund   H: http://www.brenntag.com/biosector
Responsible person for the safety data sheet (e-mail): Sales-SBS@brenntag-nordic.com

1.4. Emergency telephone number:
NHS (England or Wales): Dial 111 or 0845 4647 NHS 24 (Scotland): 08454 24 24 24

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture:
Not to be classified according to CLP (1272/2008).

2.2. Label elements:
None.

2.3. Other hazards:
None known.

PBT/vPvB: No ingredients are PBT/vPvB, according to the criteria in REACH Annex XIII.

SECTION 3: Composition/information on ingredients

3.2. Mixtures:

<table>
<thead>
<tr>
<th>% w/w</th>
<th>Substance name</th>
<th>CAS-no.</th>
<th>EC-no.</th>
<th>Index-no.</th>
<th>REACH reg.no.</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Aluminium hydroxide*</td>
<td>21645-51-2*</td>
<td>244-492-7</td>
<td>No</td>
<td>01-2119529246-39-0063</td>
<td>None</td>
</tr>
</tbody>
</table>

* CAS-no. is for the molecule formula: Al(OH)₃ · x H₂O

SECTION 4: First-aid measures

4.1. Description of first aid measures:
Inhalation: Move the affected person to fresh air. Keep at rest. If needed: Get medical attention.
Skin contact: Remove contaminated clothing and wash skin with water and mild soap. If irritation persists: Seek medical advice.
Eye contact: Flush with water or physiological salt water for at least 5 minutes, holding eyelids open; remember to remove contact lenses, if any. If irritation persists: Seek medical advice.
Ingestion: Rinse mouth and drink plenty of water. Do not induce vomiting. In case of discomfort: Seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed:
May cause slight irritation of eyes.

4.3. Indication of any immediate medical attention and special treatment needed:
Show this safety data sheet to a physician or emergency ward.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media:
Use water spray (never water jet), dry chemical, foam or carbon dioxide.

5.2. Special hazards arising from the substance or mixture:
Do not inhale smoke fumes. In case of fire, the product may form hazardous decomposition products.

5.3. Advice for firefighters:
When extinguishing surrounding fires use breathing apparatus with an independent source of air.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:
Use personal protective equipment - see section 8.

6.2. Environmental precautions:
Do not empty into drains – see section 12.

6.3. Methods and material for containment and cleaning up:
Absorb spilled liquid with inert material and place in a suitable container for disposal. Flush area of spill with plenty of water. Further handling of spillage - see section 13.

6.4. Reference to other sections:
See references above.
SECTION 7: Handling and storage

7.1. Precautions for safe handling:
Avoid contact with eyes. Change contaminated clothing. Wash with plenty of water and soap after end use.

7.2. Conditions for safe storage, including any incompatibilities:
Store cool in a well-closed original container at room temperature.

7.3. Specific end use(s):
See section 1.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters:
Occupational exposure limits (EH40/2007):

<table>
<thead>
<tr>
<th>Substance</th>
<th>8-hour TWA</th>
<th>15-min STEL</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminium salts, soluble</td>
<td>2 mg/m³</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

DNEL/PNEC: No CSR.

8.2. Exposure controls:
Appropriate engineering controls: None particular.

Personal protective equipment:
Inhalation: Normally not necessary.
Skin: In case of long-term skin contact: Wear protective gloves of nitrile rubber (> 0.3 mm) (EN 374).
Break-through time: App. 3 hours.
Eyes: Wear safety goggles (EN166) when risk of eye contact.

Environmental exposure controls: None particular.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties:
Appearance: White gel in aqueous suspension
Odour: Neutral
Odour threshold: No available data
pH: 5.5 – 8.5
Melting point / freezing point (°C): No available data
Initial boiling point and boiling range (°C): No available data
Decomposition temperature (°C): > 200
Flash point (°C): No available data
Evaporation rate: No available data
Flammability (solid, gas): No available data
Upper/lower flammability or explosive limits (vol.-%): No available data
Vapour pressure (mbar, 25°C): No available data
Vapour density (air=1): No available data
Relative density (g/ml): No available data
Solubility: Insoluble in water
Partition coefficient: n-octanol/water, Log Kow: No available data
Auto-ignition temperature (°C): No available data
Viscosity: No available data
Explosive properties: Not relevant
Oxidising properties: Not relevant

9.2. Other information:
None relevant

SECTION 10: Stability and reactivity

10.1. Reactivity:
No available data.

10.2. Chemical stability:
Stable under the recommended storage conditions - see section 7.

10.3. Possibility of hazardous reactions:
None known.

10.4. Conditions to avoid:
None known.

10.5. Incompatible materials:
Strong acids and bases.

10.6. Hazardous decomposition products:
When heated to high temperatures (decomposition) it emits toxic fumes.
SECTION 11: Toxicological information

11.1. Information on toxicological effects:
No substances with classified toxicological properties.
Information on likely routes of exposure: Skin, lungs and gastrointestinal tract.
Symptoms:
Inhalation: Vapours may cause slight irritation to the airways.
Skin: May cause slight irritation with redness.
Eyes: May cause slight irritation with redness and pain.
Ingestion: May cause irritation of the gastrointestinal tract.
Chronic effects: None known.

SECTION 12: Ecological information

12.1. Toxicity:
No substances with classified ecotoxicological properties.
12.2. Persistence and degradability:
No available information.
12.3. Bioaccumulative potential:
No available information.
12.4. Mobility in soil:
No available information.
12.5. Results of PBT and vPvB assessment:
No ingredients are PBT/vPvB, according to the criteria in REACH Annex XIII.
12.6. Other adverse effects:
No available information.

SECTION 13: Disposal considerations

13.1. Waste treatment methods:
Disposal should be according to local, state or national legislation. Dispose of through authority facilities or pass to chemical disposal company.
EWC-code:
15 05 09 (mixture itself); 15 02 03 (Paper towel, inert material etc. contaminated with the mixture)

SECTION 14: Transport information

Not dangerous goods (ADR/RID/IMDG/IATA)
14.1. UN-no.: None
14.2. UN proper shipping name: None
14.3. Transport hazard class(es): None
14.4. Packing group: None
14.6. Special precautions for user: None.
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not relevant

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:
None.
15.2. Chemical Safety Assessment:
No CSR.

SECTION 16: Other information

Abbreviations:
CMR = Carcinogenicity, mutagenicity and reproductive toxicity.
CSR = Chemical Safety Report
DNEL = Derived No-Effect Level
PBT = Persistent, Bioaccumulative, Toxic
PNEC = Predicted No-Effect Concentration
vPvB = very Persistent, very Bioaccumulative

Training advice:
No special training is required. However, the user should be well instructed in the execution of his/her task, be familiar with this Safety Data Sheet and have normal training in the use of personal protective equipment.

Changes since the previous edition:
REACH reg. no. added, adjustment of product name and substance concentration.