Material Safety Data Sheet

Alhydrogel® “85” 2.0%, EP

1. Identification of the substance and the supplier

Trade name  Alhydrogel® “85” 2.0%, EP
Formula  Al(OH)_3, aluminium hydroxide, aluminium oxyhydroxide
Supplier  Brenntag Biosector,
Elsenbakken 23
DK- 3600 Frederikssund

Phone: (+45) 47 38 47 00
Sales-SBS@brenntag-nordic.com

2. Hazards identification

People  Harmless

The product is not classified as dangerous according to Regulation (EC) no.1272/2008.

3. Information on the contents

<table>
<thead>
<tr>
<th>Contents</th>
<th>Acceptable range</th>
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<tbody>
<tr>
<td>Aluminium hydroxide gel</td>
<td></td>
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<tr>
<td>EINECS-nr. 244-492-7</td>
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<tr>
<td>(White gelatinous precipitate)</td>
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<tr>
<td>CAS no. 21645-51-2</td>
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</table>
4. First aid precautions

**Inhalation**
Inhalation unlikely.

**First aid:**
Remove person from exposure area to fresh air.

**Skin contact**
May cause irritation, dryness and dermatitis.

**First aid:**
Wash affected areas with soap and large amounts of water for a minimum of 15-20 minutes. Seek medical attention if skin symptoms persist.

**Eye contact**
May cause redness, irritation and conjunctivitis.

**First aid:**
Wash eyes immediately with large amounts of water for a minimum of 15-20 minutes. Remove contact lenses if relevant before rinsing. Seek medical attention.

**Ingestion**
Ingestion of large amounts of aluminium hydroxide may cause gastrointestinal irritation with nausea, vomiting and constipation.

**First aid:**
Seek medical attention.
5. Fire and explosion data

Fire fighting media
Non-combustible. Remove material from area if possible. Extinguish using media appropriate for fire source.

6. Precautions in case of accidental leakage

Spill procedures
Spills should be collected, stored and disposed of in accordance with the environmental regulations of the local authorities. Reference to section 13: Disposal

People
Reference to section 8: Exposure control/personal protection equipment.

7. Handling and storage

Handling
According to good industrial hygiene.

Storage
Store in sealed packing. Store at room temperature. Do not expose to freezing temperatures. Shake well before use.

8. Exposure control/personal protection equipment

Protective equipment
Clothing: Appropriate protective clothing is recommended. Gloves: Appropriate protective gloves are recommended. Eye protection: Appropriate eye protection is recommended.

9. Physical-chemical properties

Description/smell
White gelatinous precipitate in aqueous suspension/smell: neutral

PH
5.5 – 8.5

Solubility
Insoluble in water. Soluble in strong alkalines and acids.

Molecular weight
78 g/mol (for Al(OH)_3)
10. Stability and reactivity

Generally: Stable by normal use. Decomposes at high temperatures (>200°C).

Circumstances/Materials that should be avoided: Strong acids and bases.

11. Toxicological information (health damaging characteristics)

Inhalation: Not likely

Skin contact: frequent or long-term skin contact may cause dryness and irritation.

Eye contact: May cause irritation of the eye and conjunctivitis.

Ingestion: Ingestion of larger quantities may cause uneasiness.

Long-term effects: None established

Reference: EU directive 67/548/EEC : R66

12. Environmental information

Generally: insoluble in water

Degradability: Not biodegradable (inorganic)

13. Disposal

Waste/ leftovers/spill Must be disposed of in accordance with the environmental regulations of the local authorities.

14. Transport information

Status: Not classified as dangerous goods at transport.
Must be protected from freezing during transport.

15. Information on adjustment

Status: Brenntag Biosector has concluded that the material is not affected by the rules for labelling issued by the Miljø- og Energiministeriet in Denmark.
16. Further information

**Scope of application:** The product is used as an Immunological adjuvant and for purification of certain serum components.