

Material Safety Data Sheet**ALHYDROGEL 2 %**

Edition number 2

Status Active**1. Identification of the substance and the supplier**

Trade name Alhydrogel 2%

Formula Al(OH)₃

Supplier Brenntag Biosector,
Elsenbakken 23
DK- 3600 Frederikssund -
Phone: (+45) 47 38 47 00

2. Information on the contents

Contents	Acceptable range
Aluminium hydroxide gel EINECS-nr. 244-492-7 (White gelatinous precipitate) CAS no. 21645-51-2	
Al	Min. 9.0 mg/ml Max. 11.0 mg/ml
N	Max. 0.005 % w/w
SO ₄ (free)	Max. 0.05 % w/w
SO ₄ (total)	Max. 0.1 % w/w
Fe (total)	Max. 15 ppm
pH (at the time of production)	Min. 6.0 Max 7.0
Sterility	No growth in test samples
Pyrogenicity	Passes test
Protein adsorption capacity	23 +/- 5 mg HSA per ml.

3. Danger identification**People** Harmless

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.
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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. Do not expose to freezing.

8. Exposure control/personal protection equipment

Technical precautions.

Contents	GV (ppm)	GV (mg/m ³)	Anm.
Aluminium hydroxide as white gelatinous precipitate	-	10	-
	-	5	-

Reference At-instruction C.0.1 October 2002 threshold limiting value for substances and materials.

Protective equipment Clothing: Appropriate protective clothing is recommended.
 Cloves: 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

Mass density

PH 6 – 7

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

Molecular weight 78.0 g/mol

10. Stability and reactivity

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

Circumstances/ Materials that should be avoided: None established

11. Toxical information on (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
A specific set of guidelines for transporters available upon request.

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.