

Material Safety Data Sheet

ADJUPHOS 2 %

Edition number 2

Status Active

1. Identification of the substance and the supplier

Trade name ADJU-PHOS 2%

Formula AlPO_4

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

2. Information on the contents

Contents	Acceptable range
Aluminium phosphate gel EINECS-nr. 232-056-9 (White gelatinous precipitate) CAS no. 7784-30-7	
AlPO ₄ determined as Al ₂ O ₃	Min. 2.10 % Max. 2.40 %
Al (calculated)	Min. 0.45 % Max 0.55 %
AlPO ₄ determined as PO ₄	Min. 1.80 % Max 2.20 %
Al calculated	Min. 0.35 % Max 0.50 %
N	Max. 0.05 % w/w
SO ₄ (free)	Max. 0.05 % w/w
SO ₄ (total)	Max. 0.05 % w/w
NaCl	Min. 0.8% Max 1.0%
pH (at the time of production)	Min. 6.0 Max 7.0
Sterility	No growth in test samples
Pyrogenicity	Passes test (max. + 1.15 C in 3 rabbits)

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.

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.

People Reference to section 13: Disposal
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 phosphate 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 123 g/mol (for AlPO₄)

10. Stability and reactivity

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

Circumstances/ Materials that should be avoided: None established

11. Toxicological 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.
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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.
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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.
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16. Further information

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