



ALUMINIUM SULPHATE, SOLUTION

Version 1.0

Revision Date 04.08.2009

Print Date 04.08.2009

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

Product information

Trade name : ALUMINIUM SULPHATE, SOLUTION
Use of the Substance/Preparation : Flocculating agent, Agent for water treatment, Pulp chemicals and paper auxiliaries
Company : OKER-CHEMIE GMBH
 Im Schleeke 77
 38642 Goslar
 Germany
Telephone : +49 (0)53 21 - 7 51-34 15
E-mail address : infoSDS@hcstarck.com
Responsible Department : Corporate HSEQ & SIS - Product Safety
Emergency telephone : +49(0)551/19240

2. HAZARDS IDENTIFICATION

Classification

Irritating to skin.
Risk of serious damage to eyes.

Additional risk advice to man and the environment

May be corrosive to metals.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

solution

Hazardous components

Chemical Name	CAS-No.	EC-No.	Symbol(s)	R-phrase(s)	Concentration [%]
Aluminium sulphate	10043-01-3	233-135-0	Xi	R41	47,5 - 48,5

For the full text of the R-phrases mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

If inhaled : Remove to fresh air.
 If symptoms persist, call a physician.
In case of skin contact : Wash off with soap and water.
 If skin irritation occurs, seek medical advice/attention.
In case of eye contact : Flush affected eyes with plenty of water immediately and call a physician.



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If swallowed : Clean mouth with water and drink afterwards plenty of water.
Do NOT induce vomiting.
Obtain medical attention.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Extinguishing methods depends upon fire in vicinity poses.
The product itself does not burn.

Extinguishing media which shall not be used for safety reasons : None known.

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases : sulfuric oxides (SO_x) - Toxic, Corrosive

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus and protective suit.

Additional advice : Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Ventilate the area.
Avoid contact with skin, eyes and clothing.
Use personal protective equipment.

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Use mechanical handling equipment.
Fill into labelled, sealable containers.

7. HANDLING AND STORAGE

Handling

Advice on safe handling : Do not breathe vapours, aerosols.
Ensure adequate ventilation and, if necessary, exhaust ventilation when handling or transferring the product.
Avoid contact with the skin and the eyes.
Ensure that the occupational exposure limit value/s (OEL) and/or other limit values are complied with.

Advice on protection against fire and explosion : No special precautions required.

Storage



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Requirements for storage areas and containers : Comply with the directives governing water law

Further information on storage conditions : Store in original container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limit Values

Aluminium salts, soluble; CAS-No.: 10043-01-3

Basis : EH40 (UK)

Threshold limits

TWA : 2 mg/m³

Aluminium sulphate; CAS-No.: 10043-01-3

Basis : OEL (EU)

Note : No limit value established.

Personal protective equipment

Respiratory protection : Respiratory protective device with combination filter EN 14387 B - P2

Hand protection : Glove material: Natural Rubber
Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

: Glove material: Viton (R)
Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Eye protection : Safety glasses

Body Protection : Protective suit

General protective measures : Handle in accordance with good industrial hygiene and safety practice. Keep working clothes separately.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : liquid

Color : colourless

Odor : odorless

Safety data

pH : 2 - 2,7

Change in physical state

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- **Boiling point/boiling range** : 100 - 120 °C
- Flash point** : not applicable
- Flammability (solid, gas)** : not auto-flammable
Method: Pyrophoric properties of solids and liquids
- Explosion limits**
- **Lower explosion limit** : not applicable
- Density** : ca. 1,33 g/cm³
at 20 °C
- Solubility**
- **Water solubility** : completely miscible

10. STABILITY AND REACTIVITY

- Conditions to avoid** : None known.
- Materials to avoid** : Bases
Metals
- Hazardous decomposition products** : Sulphur oxides

11. TOXICOLOGICAL INFORMATION

- Skin irritation** : Irritating to skin.
- Eye irritation** : Risk of serious damage to eyes.

12. ECOLOGICAL INFORMATION

No information on ecology is available.

13. DISPOSAL CONSIDERATIONS

- Product** : The Federal, regional and local rules and regulations governing disposal must be complied with.
- : This product cannot be classified with disposal identification key acc. to the EU disposal directives as a classification results from the intended utilisation purpose of the consumer
- Packaging** : Packaging that is not contaminated and has been cleaned can be recycled.

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14. TRANSPORT INFORMATION**Land transport ADR/RID**

UN Number : 3264
Proper Shipping Name : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
(ALUMINIUM SULPHATE, SOLUTION)
Class : 8
Packaging group : III
Classification Code : C1
Hazard identification No : 80
ADR/RID-Labels : 8

Air transport ICAO-TI/IATA-DGR

UN Number : 3264
Proper Shipping Name : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
(ALUMINIUM SULPHATE, SOLUTION)
Class : 8
Packing group : III
ICAO-Labels : 8
Packing instruction (Cargo Aircraft Only) : 820
Packing instruction (Passenger and Cargo Aircraft) : 818

Sea transport IMDG

UN Number : 3264
Proper Shipping Name : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
(ALUMINIUM SULPHATE, SOLUTION)
Class : 8
Packing group : III
IMDG-Labels : 8
EmS Number : F-A, S-B
Marine pollutant : no

15. REGULATORY INFORMATION**Labelling according to EC Directives****Directive 1999/45/EC**

Labelling required

Symbol(s)

Xi Irritant

Hazardous components which must be listed on the label:

contains :
Aluminium sulphate

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R-phrase(s)

R38 Irritating to skin.
R41 Risk of serious damage to eyes.

S-phrase(s)

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 After contact with skin, wash immediately with plenty of water.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

National legislation

Major Accident Hazard Legislation : 96/82/EC
Annex I
Number: Is not subject to the Seveso II Directive.

Other regulations : Comply with the directives acc to the EU Maternity Protection Act (92/85/EEC) with regard to occupational restrictions.
Take note of Dir 94/33/EC on the protection of young people at work.

16. OTHER INFORMATION**Full text of R-phrases referred to under sections 2 and 3**

R38 Irritating to skin.
R41 Risk of serious damage to eyes.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The above details do not imply any guarantee concerning composition, properties or performance.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.