



ALUMINIUM SULPHATE, SOLUTION

Version 1.1

Revision Date 23.01.2012

Print Date 23.01.2012

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

Product information

Trade name : ALUMINIUM SULPHATE, SOLUTION
Use of the Substance/Mixture : 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
Emergency telephone : +49(0)551/19240

2. HAZARDS IDENTIFICATION

Classification (67/548/EEC, 1999/45/EC)

Irritant R38: Irritating to skin.
R41: Risk of serious damage to eyes.
May be corrosive to metals.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : solution

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification	R-phrase(s)	GHS Classification	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

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



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

5. FIREFIGHTING MEASURES

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

Unsuitable extinguishing media : None known.

Specific hazards during firefighting : sulfuric oxides (SO_x)

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

Further information : 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

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



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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 : Avoid breathing dust.
In case of insufficient ventilation, wear suitable respiratory equipment.
Respiratory protective device with combination filter EN 14387 B - P2

Hand protection : 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).
: 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

Skin and body protection : Protective suit

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

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : liquid

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006



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Colour : colourless

Odour : odourless

Safety data

Flash point : Note: not applicable

Lower explosion limit : not applicable

Flammability (solid, gas) : not auto-flammable
Method: Pyrophoric properties of solids and liquids

pH : 2 - 2,7

Boiling point/boiling range : 100 - 120 °C

Density : ca. 1,33 g/cm³
at 20 °C

Water solubility : Note: 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 : Remarks: Irritating to skin.

Eye irritation : Remarks: Risk of serious damage to eyes.

12. ECOLOGICAL INFORMATION

Further information on ecology

Additional ecological information : No information on ecology is available.



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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

14. TRANSPORT INFORMATION

ADR

- UN number : 3264
Description of the goods : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
(ALUMINIUM SULPHATE, SOLUTION)
Class : 8
Packing group : III
Classification Code : C1
Hazard identification No : 80
Labels : 8
Tunnel restriction code : (E)
Environmentally hazardous : no

IATA

- UN number : 3264
Description of the goods : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
(ALUMINIUM SULPHATE, SOLUTION)
Class : 8
Packing group : III
Labels : 8
Packing instruction (cargo aircraft) : 856
Environmentally hazardous : no
Packing instruction (passenger aircraft) : 852

IMDG

- UN number : 3264
Description of the goods : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
(ALUMINIUM SULPHATE, SOLUTION)
Class : 8
Packing group : III
Labels : 8
EmS Number 1 : F-A
EmS Number 2 : S-B
Marine pollutant : no

15. REGULATORY INFORMATION

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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

R-phrases(s)

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

S-phrases(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.

Full text of H-Statements referred to under sections 2 and 3.

SAFETY DATA SHEET

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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.