

P. O. Box: 23941 Jeddah - 21436, Saudi Arabia
Ph: 00966 50 6342946, (02) 6445388 - Fax: 00966 (02) 6445722
Email: info@mncp.com.sa Website: www.mncp.com.sa
Project Location: Phase 2, Industrial Estate, Rabigh – Saudi Arabia

MATERIAL SAFETY DATA SHEET ALUMINIUM SULPHATE

1.Product and Company Identification

Trade / Commercial Name ALUMINIUM SULPHATE

<u>Chemical Name</u> Aluminum Sulphate – solid CAS NO.10043-01-3

Formula Al2O12S3

Chemical Family

Synonyms Sulfuric Acid, Aluminum Salt (3:2); Dialuminum

Sulfate

<u>Un No</u> 8207 <u>Hazchem Code</u>

ERG No 171 EAC

2. Composition

<u>Hazardous Components</u> Aluminium Sulphate

Al2(SO4)3 = 48 - 58 %Water = 42 - 52%

3. Hazards Identification

Fire could produce irritating or poisonous gases.

Runoff from fire-control water or dilution water could cause pollution. Occupational Exposure Limit (OEL) TLV=2mg (Al)/m3 as TWA

4. First Aid Measures

<u>First Aid Skin</u> Immediately remove contaminated clothing, including

shoes.

Wash affected area with plenty of soap and water for

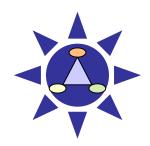
at least 20 minutes.

<u>First Aid Eyes</u> Flush eyes with water for 15 minutes.

Hold eyelids open while washing.

<u>First Aid Ingested</u> Provide patient in conscious wash out mouth with

water and give 5% sodium Bicarbonate solution followed by a demulcent such as milk. Seek medical



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advise immediately.

First Aid Inhalation

Remove to fresh air, loosen clothing and seek medical

advise

5. Fire Fighting Measures

SMALL FIRES: Dry chemical, CO2, Halon, water spray or standard foam.

LARGE FIRES: Water spray, fog or standard foam is recommended. Move container from without fire area if you do Cool containers that are exposed to flames with water from the side until well after the fire is out. Stay away from ends of tanks. For massive fire in cargo area, use unmanned hose or monitor nozzles; impossible, withdraw this is from area and let fire burn. Keep unnecessary people away; isolate hazard and denv area entry. Stay upwind; keep out of low areas. Self-contained breathing apparatus (SCBA) and structural firefighter's protective clothing will provide limited protection.

6. Accidental Release Measures

Breathing apparatus for fire only Dilute (substance may be washed to drain with a lot of water)

PRECAUTIONS:

Restrict access to area.

Provide adequate protective equipment and ventilation.

Remove sources of heat and flame.

Notify occupational and environmental authorities.

SPILL OR LEAK:

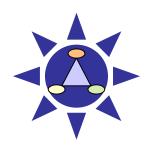
Shut off ignition sources; no flares, smoking or flames in hazard area. Keep combustibles (wood, paper, oil, etc) away from hazard area. Do not touch spilled material.

SMALL SPILLS:

Take-up with sand or other noncombustible absorbent material and place into containers for later disposal.

LARGE SPILLS:

Dike far ahead of liquid spill for later disposal.



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7. Handling And Storage

Storage in the same room or space is prohibited with the following classes: The rooms or spaces should be at least 10M apart Explosives.

8. Exposure Controls/Personal Protection

Occupational Exposure Limits No Exposure Limits Established – No spontaneous

combustion

<u>Controls</u> The control measures appropriate for a particular

worksite depend

on how this material is used and on the extent of

exposure.

The best protection is to enclose operations and/or

provide

local exhaust ventilation at the site of chemical

release.

Use a non-sparking, grounded ventilation system

separate from other

exhaust ventilation systems. Exhaust directly to the

outside.

Supply sufficient replacement air to make up for air

removed.

Have a safety shower/eye wash fountain readily

available in the immediate work area

<u>Personal Protection</u> If engineering controls and work practices are not

effective in

controlling this material, then wear suitable personal

protection

equipment, including chemical safety goggles & face

shield, boots,

imperious gloves, coveralls, & respiratory protection.

Have appropriate equipment available for use in

emergencies.

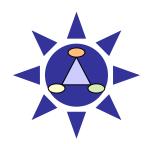
9. Physical & Chemical Properties

Appearance & Color = White crystalline / powder

pH (10% Solution) = 2.5 - 3.5

Concentration = 72-91 g/Kg Al (16-17 % as Al2O3)

Specific Gravity = 1.34 @ 15 c



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Solubility in water = Sparingly Soluble

Flammability Limit (% by vol. in air) = NON FLAMMABLE

Auto ignition = NONE Flash Point = NONE

10. Stability And Reactivity

Stability = stable

Conditions to Avoid

Incompatible Materials

Other

Some Oxidizing Agent .eg Chlorites & Hypochlorite

Attack most metals Liberating Hydrogen

Could emit Toxic Oxides of Sulphur when heated to

decomposition.

11. Toxicological Information

SKIN & EYES:- Irritant to skin – after prolonged contact with skin produces sores and possible dermatitis. In eyes it could cause severe damage which could lead to permanent visual defects or even total loss of vision

INHALED: May cause irritation to the mucous, membrane of the respiratory tract

INGESTED: Very astringent to mouth, nose and throat normally followed by rapid expectoration.

LONG TERM EXPOSURE:- Aluminum accumulates in the brain tissue, resulting in seizure and brain dysfunction

TOTICITY DATA:- LD 50 6207 mgkg-1 (oral-mouse)

12. Ecological Information

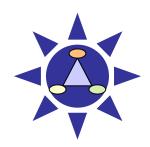
No ecological problems are expected when the product is handled and used with due care.

13. Disposal Considerations

<u>Disposal Method Product</u> There are no uniform EC regulations for the disposal

of chemicals or residues.

Chemical residues generally count as special waste.



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The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations.

We recommend that you contact the authorities in

charge or approved

waste disposal companies which will advise you on

how to dispose of special waste.

<u>Disposal Method Packaging</u> Disposal in accordance with local legal provisions.

14. Transport Information

 UN No
 8207
 Hazchem Code
 1[T]

 ERG No
 171
 EAC
 11

IMDG Code 9

Marine Pollutant True

<u>Class</u> Class: 9 Miscellaneous

<u>Subsidiary Risks</u> None Tremcard Number CEFIC

15. Regulatory Information

EEC Hazard Classification 9 Hazard Symbol : Xi

Risk Phases Danger of cumulative effects. Damage to Eyes (R 41)

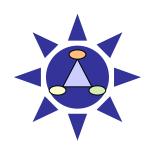
<u>Safety Phases</u> This material and its container must be disposed of in

a safe way

National Legislation

16. General Use of the Product & other Information

Aluminum Sulphate is generally used as flocculating & coagulating Agent in the drinking Water & Waste Water Treatment process. Sizing of paper, Water proofing, Leather tanning, Fire Proofing, Manufacture of Medicines, As a mordant in Textile & dying, Photographic Process, As a Cattle Feed and Soil Conditioner in Agriculture.



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For further details: Contact Safety Department:-

Mohammad Nazir Chaudhry Chemical Products Co Ltd.,

Rabigh-Saudi Arabia Email: <u>info@mncp.com.sa</u> Cell: +966506342946