

Material Safety Data Sheet**Product: Aluminum Sulfate 17 %****Section one: Identification of the substance and the company****1.1 Product identifier****Trade Name: Aluminum sulfate, solid****Article No.:** n.av.**Preparation No.:** n.av.**Registration No.:** 01-2119531538-36-xxxx**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Identified uses: Potable water treatment, wastewater treatment

1.3 Details of the supplier of the safety data sheet**1.3.1 Address of the Company / Supplier:****Arax Chemistry Company. Ata Building, Mother Square, Tehran, Iran.**

Telephone: +9835000015, +982138921, Fax: +982136442714, Mobile: +989120850450

E-Mail: info@AexChemi.com Website: www.AraxChemi.com**Section Two: Hazards identification****2.1 Classification of the substance or mixture****Classification and labelling according to Directive 1272/2008/EC:**

Eye Dam. 1; H318

2.2 Label elements

Classification according to 1272/2008/EC: Yes.

Applicable Exemptions: No.

Signal word(s): Danger Hazard pictogram(s):

Component(s): 16828-12-9 Aluminiumsulphate

H - Phrases:

H318: Causes serious eye damage.

Hazardous Pictogram



**Material Safety Data Sheet****Product: Aluminum Sulfate 17 %****P - Phrases:**

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER/doctor.

Additional Markings:

None.

The above mentioned labelling is valid for distribution to industrial user.

2.3 Other hazards

According to the results of the evaluation this substance is not PBT or vPvB

Section Three: Composition/information on ingredients**3.1 Substances****Dangerous Ingredients:****Material**

CAS - No. Index - No. EC - No. REACH - No.

Hazard Code(s) / H - phrases

m% -

range

Aluminiumsulphate Decaohydrate (17 Hydrate)

16828-12-9 n.av. n.av. 01-2119531538-36-xxxx

Eye Dam. 1; H318

> 99%

3.2 Mixtures

n.ap.

**Material Safety Data Sheet****Product: Aluminum Sulfate 17 %****Section Four: First aid measures****4.1 Description of first aid measures****4.1.1 Inhalation:**

Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If

symptoms persist, call a physician.

4.1.2 Skin Contact:

Wash off with soap and water. In the case of skin irritation or allergic reactions see a physician.

4.1.3 Eye Contact:

Call a physician immediately. Rinse immediately with plenty of water, also under the eyelids.

4.1.4 Ingestion:

Do not induce vomiting. Clean mouth with water and afterwards drink plenty of water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

n.av.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Section Five: Firefighting measures**5.1 Extinguishing media****5.1.1 Suitable Extinguishing Media:**

The product itself does not burn.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.1.2 Extinguishing Media to Avoid:

high volume water jet.

5.2 Special hazards arising from the substance or mixture

In the event of fire the following can be released: Inorganic substances in powdered form, Sulphur oxides.

**Material Safety Data Sheet****Product: Aluminum Sulfate 17 %****5.3 Advice for firefighters****5.3.1 Special Protective Equipment:**

Wear positive pressure self-contained breathing apparatus. Wear full protective clothing.

5.3.2 Additional Information:

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Section Six: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation, especially in confined areas.

6.2 Environmental precautions

Local authorities should be advised if significant spillages cannot be contained.

Use mechanical handling equipment. Avoid dust formation.

6.3 Methods and material for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal.

6.4 Reference to other sections

None.

Section Seven: Handling and storage**7.1 Precautions for safe handling****7.1.1 Precautions for Safe Handling:**

Keep container tightly closed in a dry and well-ventilated place. Re-open used containers with caution.

7.1.2 Precautions in Case of Fire and Explosion:

The product itself does not burn. No special precautions required.



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Product: Aluminum Sulfate 17 %

7.2 Conditions for safe storage, including any incompatibilities

7.2.1 Storage Instructions:

Keep in a dry, cool and well-ventilated place. Jointless smooth floor: acid resisting floor.

7.2.2 Store away from:

Incompatible with strong bases and oxidizing agents.

7.2.3 Further Information on Storage Conditions:

Keep containers dry and tightly closed to avoid moisture absorption and contamination.

7.3 Specific end use(s)

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Section Eight: Exposure controls/personal protection

8.1 Control parameters

Material Limit Value

Aluminiumsulfat Decaoctohydrate (17 Hydrate)

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Do not breathe dust. Avoid contact with skin and eyes. When using, do not eat, drink or smoke. Take off all contaminated clothing immediately. Wash hands before breaks and at the end of workday.

8.2.2 Individual protection measures

8.2.2a Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Short term only: Recommended Filter type: B-P2

8.2.2b Hand Protection: impervious butyl rubber gloves, Break through time > 480 min.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

8.2.2c Eye Protection: safety glasses with side-shields conforming to EN166

8.2.2d Skin Protection: protective suit

8.2.2e Further Information: Observe wearing time limits:

8.2.3 Environmental exposure controls:

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**Material Safety Data Sheet****Product: Aluminum Sulfate 17 %****Section Nine: Physical and chemical properties****9.1 Information on basic physical and chemical properties**9.1.1 **Form:** solid**Colour:** white**Odour:** odourless**Odour threshold:** n.av.

9.1.2 pH-value, undiluted: n.ap.

pH-value, 1% aqueous solution: ~ 3; 10%

9.1.3 Boiling point / Boiling - range (° C): n.av., Melting point / Melting range (° C): 650

9.1.4 Flash point (° C): n.ap., closed cup

9.1.5 Flammability (EEC A10/A13): n.ap.

9.1.6 Ignition temperature (° C): n.ap.

9.1.7 Autoflammability (EEC A16): n.ap.

9.1.8 Oxidising properties: None.

9.1.9 Explosion hazard: No.

9.1.10 Explosion limits (Vol.%) lower: n.ap., upper: n.ap.

9.1.11 Vapour pressure: n.ap.

Vapour density (Air = 1): n.av.

9.1.12 Density (g/ml): 1,7

9.1.13 Solubility (in Water): 880 g/l

9.1.14 Partition coefficient, n-Octanol / Water: -2

9.1.15 Viscosity: n.av.

9.1.16 Solvent content (m %): n.ap.

9.1.17 Thermal decomposition (° C): > 400

9.1.18 Evaporation rate: n.av.

9.2 Other information

n.av.

**Material Safety Data Sheet****Product: Aluminum Sulfate 17 %****Section Ten: Stability and reactivity****10.1 Reactivity**

Stable under recommended storage conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Protect from frost, heat and sunlight.

10.5 Incompatible materials

Incompatible with strong bases and oxidizing agents.

10.6 Hazardous decomposition products

Sulphur oxides

