



## **SAFETY DATA SHEET** **Aluminium Sulphate (Solid)**

According to Regulation (EU) No 2015/830

### **SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

#### **1.1. Product identifier**

**Product name** Aluminium Sulphate (Solid)

#### **1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Identified uses** Industrial use.

#### **1.3. Details of the supplier of the safety data sheet**

**Supplier** May Asit Kimyevi Mad. Tic. Ve San. Ltd. Şti.  
Demirkapı Keresteciler Sitesi  
İşgören sk. No: 1 34140 Rami/İSTANBUL  
Tel: +90212 612 57 51  
Faks: +90212 567 23 80

#### **1.4. Emergency telephone number**

Tel: +90212 612 57 51

### **SECTION 2: HAZARDS IDENTIFICATION**

#### **2.1. Classification of the substance or mixture**

##### **Classification (EC 1272/2008)**

Physical and Chemical Hazards	Not classified.
Human health	Eye dam. 1 - H318.
Environment	Not classified.

The Full Text for all Hazard Statements are Displayed in Section 16.

#### **2.2. Label elements**

**Label In Accordance With (EC) No. 1272/2008**



**Signal Word** Danger

##### **Hazard Statements**

H318 Causes serious eye damage.

##### **Precautionary Statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



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### **2.3. Other hazards**

No information available.

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

### **3.1. Substances**

Name	EC No.	CAS No.	Content	Classification (EC 1272/2008)
Aluminium sulfate	233-135-0	10043-01-3	> % 99	Eye dam. 1 - H318

The Full Text for all Hazard Statements are Displayed in Section 16.

### **Composition Comments**

- The data shown are in accordance with the latest EC Directives.
- Workplace exposure limits are shown in section 8.

## **SECTION 4: FIRST AID MEASURES**

### **4.1. Description of first aid measures**

#### **Inhalation**

Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

#### **Ingestion**

Never give liquid to an unconscious person. Rinse mouth thoroughly. Get medical attention if any discomfort continues.

#### **Skin contact**

Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if irritation persists after washing.

#### **Eye contact**

Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention immediately. Continue to rinse.

### **4.2. Most important symptoms and effects, both acute and delayed**

#### **Inhalation**

Irritation at the top of the respiratory system

#### **Ingestion**

Irritant. It will damage the stomach and intestines.

#### **Skin contact**

Prolonged skin contact may cause redness and irritation.

#### **Eye contact**

Serious eye damage.

### **4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

## **SECTION 5: FIREFIGHTING MEASURES**

### **5.1. Extinguishing media**

#### **Extinguishing media**

This product is not flammable. Extinguish with foam, carbon dioxide or dry powder.



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### **Unsuitable extinguishing media**

No data available.

### **5.2. Special hazards arising from the substance or mixture**

#### **Unusual Fire & Explosion Hazards**

Form explosive mixtures with air.

#### **Specific hazards**

In case of fire, toxic gases may be formed. Carbon monoxide (CO).

### **5.3. Advice for firefighters**

#### **Special Fire Fighting Procedures**

Move container from fire area if it can be done without risk. Keep run-off water out of sewers and water sources. Dike for water control.

#### **Protective equipment for fire-fighters**

Face mask, protective gloves and safety helmet.

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective clothing as described in Section 8 of this safety data sheet. Use acid-resistant clothing and protective material. Do not smoke, use open fire or other sources of ignition. Avoid breathing dust. Avoid contact with eyes and prolonged skin contact. Provide adequate ventilation.

### **6.2. Environmental precautions**

Avoid discharge into water courses or onto the ground.

### **6.3. Methods and material for containment and cleaning up**

Cover and place the containers elsewhere. Clean the area with water.

### **6.4. Reference to other sections**

For personal protection, see section 8.

See section 11 for additional information on health hazards.

For waste disposal, see section 13.

## **SECTION 7: HANDLING AND STORAGE**

### **7.1. Precautions for safe handling**

Read and follow manufacturer's recommendations. Do not eat, drink or smoke when using the product.

Mechanical ventilation or local exhaust ventilation is required.

### **7.2. Conditions for safe storage, including any incompatibilities**

Keep the container tightly closed in a well-ventilated place. Store on acid-resistant flat surface in a dry, cool and well-ventilated place. Carefully open used boxes.

### **7.3. Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **8.1. Control parameters**

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
Aluminium sulphate	TLV	---	3 mg/m <sup>3</sup>	---	---	---

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### **8.2. Exposure controls**

#### **Protective equipment**



#### **Process conditions**

Provide eyewash station.

#### **Engineering measures**

Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of dust/mist

#### **Respiratory equipment**

In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter (type P2).

#### **Hand protection**

For prolonged or repeated skin contact use suitable protective gloves. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

#### **Eye protection**

If risk of splashing, wear safety goggles or face shield.

#### **Hygiene measures**

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

#### **Skin protection**

Wear apron or protective clothing in case of contact.

#### **Environmental Exposure Controls**

Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

### **9.1. Information on basic physical and chemical properties**

<b>Appearance</b>	Solid
<b>Colour</b>	Colorless
<b>Odour</b>	Odourless.
<b>Odour threshold</b>	No information available
<b>pH</b>	2,8-3,6 (2% aqueous solution)
<b>Melting point</b>	650 C
<b>Initial boiling point and range</b>	No information available
<b>Flash point</b>	No information available
<b>Evaporation rate</b>	No information available
<b>Upper/lower flammability or explosive limits</b>	No information available
<b>Flammability (solid, gas)</b>	No information available
<b>Auto-ignition temperature</b>	No information available
<b>Vapour pressure</b>	No information available
<b>Vapor Density</b>	No information available
<b>Relative density</b>	No information available
<b>Solubility(ies) (water)</b>	1000 g / L @ 20 C - OECD test method - completely soluble.



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Density	1,7 g/ml
Coefficient of dispersion: n-octanol / water	-2
Decomposition Temperature	>400 C
Viscosity	No information available
Oxidising properties	No information available
Explosive properties	No information available

### **9.2. Other information**

No data available.

## **SECTION 10: STABILITY AND REACTIVITY**

### **10.1. Reactivity**

There are no known reactivity hazards associated with this product.

### **10.2. Chemical stability**

Stable under normal temperature conditions and recommended use. Stable under the prescribed storage conditions.

### **10.3. Possibility of hazardous reactions**

Will not polymerise.

### **10.4. Conditions to avoid**

Protect from frost, heat and sunlight.

### **10.5. Incompatible materials**

#### **Materials To Avoid**

Incompatible with strong bases, oxidizing agents, chlorite, hypochlorite, sulfides and other coagulants.

### **10.6. Hazardous decomposition products**

Fire creates: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

## **SECTION 11: TOXICOLOGICAL INFORMATION**

### **11.1. Information on toxicological effects**

#### **Acute Toxic**

LD50 6207 mg/kg (rat)

#### **Skin corrosion/irritation**

Based on available data the classification criteria are not met.

#### **Serious eye damage/irritation**

Causes serious eye damage.

#### **Respiratory or skin sensitisation:**

Based on available data the classification criteria are not met.

#### **Germ cell mutagenicity**

#### **Genotoxicity - In Vitro/ In Vivo**

Based on available data the classification criteria are not met.

#### **Carcinogenicity**

Based on available data the classification criteria are not met.

#### **Reproductive Toxicity**

Based on available data the classification criteria are not met.



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### **STOT - Single exposure**

Based on available data the classification criteria are not met.

### **STOT - Repeated exposure**

Based on available data the classification criteria are not met.

### **Aspiration hazard**

Based on available data the classification criteria are not met.

## **SECTION 12: ECOLOGICAL INFORMATION**

### **12.1. Toxicity**

LC50; 96 hour; Gambus affinis: 37 mg/l

### **12.2. Persistence and degradability**

There are no data on the degradability of this product.

### **12.3. Bioaccumulative potential**

No data available on bioaccumulation.

### **12.4. Mobility in soil**

#### **Mobility**

No data available.

### **12.5. Results of PBT and vPvB assessment**

This product does not contain any PBT or vPvB substances.

### **12.6. Other adverse effects**

No information required.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

### **General information**

When handling waste, consideration should be made to the safety precautions applying to handling of the product.

### **13.1. Waste treatment methods**

Dispose of waste and residues in accordance with local authority requirements. Dispose of on site landfill area.

## **SECTION 14: TRANSPORT INFORMATION**

### **14.1. UN number**

Not applicable.

### **14.2. UN proper shipping name**

Not applicable.

### **14.3. Transport hazard class(es)**

Not applicable.

### **14.4. Packing group**

Not applicable.

### **14.5. Environmental hazards**

Environmentally Hazardous Substance/Marine Pollutant

No.

### **14.6. Special precautions for user**

Not applicable.



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### **14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

## **SECTION 15: REGULATORY INFORMATION**

### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

#### **Guidance Notes**

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108).

#### **EU Legislation**

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures.

### **15.2. Chemical Safety Assessment**

No chemical safety assessment has been implemented.

## **SECTION 16: OTHER INFORMATION**

#### **Abbreviations and acronyms used in the safety data sheet**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.

IATA: International Air Transport Association.

ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air.

IMDG: International Maritime Dangerous Goods.

CAS: Chemical Abstracts Service.

ATE: Acute Toxicity Estimate.

LC<sub>50</sub>: Lethal Concentration to 50 % of a test population.

LD<sub>50</sub>: Lethal Dose to 50% of a test population (Median Lethal Dose).

EC<sub>50</sub>: 50% of maximal Effective Concentration.

PBT: Persistent, Bioaccumulative and Toxic substance.

vPvB: Very Persistent and Very Bioaccumulative.

#### **Revision Comments**

This is first issue.

#### **Hazard Statements In Full**

H318 Causes serious eye damage.

#### **Classification reason**

Eye dam. 1 - H318 :Calculated method

#### **Information Sources**

This SDS is prepared based on the information received from the product owner.

Provided information from manufacturer MAY ASİT.

ECHA – [www.echa.europa.eu](http://www.echa.europa.eu)

#### **Revision Comments**

This is first issue.

#### **Issued By**

Büşra TARAKCI / CRAD

gbf@crad.com.tr



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### **Issued Note**

This SDS is prepared based on the information and documents received from product owner. CRAD or/and SDS author shall not be responsible for incorrect prepared of SDS and pecuniary loss or intangible damages because of deficient or wrong information and documents which comes from product owner.

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