



SOZAL CHEMICAL INDUSTRY AND TRADE INC.

SOLID ALUMINUM-MAGNESIUM POLYCHLORIDE

Which Revision Number Is It?
New Revision Date: 03/07/2026
Preparation Date: 03/07/2026
Publication date: 03/07/2026
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TR

Safety Data Sheet

This document has been prepared in accordance with the provisions of Annex II Regulation of the Turkish R&D Authority, numbered 30105 and dated 23.06.2017.

SECTION 1. Identification of the substance/mixture and of the company/distributor.

1.1. Substance/Mixture Identity

Product name (10%)

SOLID ALUMINUM-MAGNESIUM POLYCHLORIDE Polychloride (Solid Powder - Al2O3 > 30%, MgO)

1.2. Identified uses and uses advised against for the substance or mixture.

Specified uses: Industrial	Industrial	Professional	Consumer
coagulant, water and wastewater treatment, sedimentation, flocculation and turbidity removal.		-	-

1.3. Information of the safety data sheet supplier.

Company Name

Address

Country

SOZAL CHEMICAL INDUSTRY AND TRADE INC.

Kosab Güvenli Street No:7 Kestel 16450

Bursa Türkiye

+0902243315153

+090224-3315159

(TR)

1.4. Emergency telephone number

Please consult for urgent information.

Tel: +0902243315153

National Poison Control Center (UZEM): 114

SECTION 2. Hazard identification.

2.1. Classification of the substance or mixture

The product is classified as a hazard under the provisions of Regulation 28848/2013 (TC) SEA.

Classification and identification of hazards:

Skin Irritation, Category 2	H315
Severe Eye Damage, Category 2A	H319
Specific Target Organ Toxicity, (Single Exposure - Respiratory Irritation), Category 3	H335
Abrasive for Metals, Category 1	H290

2.2. Label elements

Hazard labels according to Regulation 28848/2013 (TC) SEA and subsequent amendments and adaptations.

Hazard Signs: GHS07 (Exclamation Mark), HHS05 (Corrosive)



Warning Word:

Attention

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	SOLID ALUMINUM-MAGNESIUM POLYCHLORIDE																								
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SECTION 2. Hazard identification ... / >>																									
Hazard Statements: <table><tr><td>H290</td><td>It can corrode metals.</td></tr><tr><td>H315</td><td>It causes skin irritation.</td></tr><tr><td>H319</td><td>It causes serious eye irritation.</td></tr><tr><td>H335</td><td>It can cause respiratory tract irritation.</td></tr></table> Precautionary statements: <table><tr><td>P261</td><td>Avoid inhaling its dust/vapor/gas/mist.</td></tr><tr><td>P264</td><td>Wash hands and skin thoroughly with water after handling.</td></tr><tr><td>P280</td><td>Use protective gloves, protective clothing, eye protection, and face protection.</td></tr><tr><td>P302-352</td><td>IF IN CONTACT WITH SKIN: Wash with plenty of soap and water.</td></tr><tr><td>P304+P340</td><td>IF INHALED: Remove the affected person to fresh air and position them comfortably to allow them to breathe easily.</td></tr><tr><td>Continue with P305+P351+P338.</td><td>IF IN CONTACT WITH EYES: Rinse carefully with water for several minutes. Remove contact lenses, if any, and rinse afterwards.</td></tr><tr><td>P312</td><td>If you feel unwell, call UZEM (114) or a doctor.</td></tr></table>				H290	It can corrode metals.	H315	It causes skin irritation.	H319	It causes serious eye irritation.	H335	It can cause respiratory tract irritation.	P261	Avoid inhaling its dust/vapor/gas/mist.	P264	Wash hands and skin thoroughly with water after handling.	P280	Use protective gloves, protective clothing, eye protection, and face protection.	P302-352	IF IN CONTACT WITH SKIN: Wash with plenty of soap and water.	P304+P340	IF INHALED: Remove the affected person to fresh air and position them comfortably to allow them to breathe easily.	Continue with P305+P351+P338.	IF IN CONTACT WITH EYES: Rinse carefully with water for several minutes. Remove contact lenses, if any, and rinse afterwards.	P312	If you feel unwell, call UZEM (114) or a doctor.
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2.3. Other damages Based on currently available information, the product does not contain $\geq 0.1\%$ PBT or vPvB substances. The product does not contain substances with endocrine-disrupting properties at concentrations $\geq 0.1\%$.																									
SECTION 3. Composition/Information about ingredients.																									
3.1. Articles Irrelevant information																									
3.2. Mixtures Contents: Introduction to Polyaluminum Chloride (PAC) Conc. %: $85 \leq x < 90$ CAS No: 1327-41-9 EC No: 215-477-2 Classification 28848/2013 (TC) SEA Regulation: Metal Corrosion. 1 H290, Skin Irritation 2 H315, Eye Irritation 2 H319 Introduction: Magnesium Oxide (MgO) Concentration %: 10 (Fixed) CAS No: 1309-48-4 EC No: 215-171-9 Classification 28848/2013 (TC) SEA Regulation: Not classified Residual Moisture and Impurity Concentration %: $0 \leq x < 5$ CAS No: 7732-18-5 Classification 28848/2013 (TC) SEA Regulation: Not classified. *Note: Active Aluminum Oxide (Al2O3) content on dry solid basis is $> 30.0\%$. The formulation has been modified using the spray drying method.																									

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This Safety Data Sheet has been prepared in accordance with the provisions of the Regulation No. 30105, Annex II of the KKDyK (Turkish Regulation on the Protection of Natural Resources and Chemical Products).			
CHAPTER 4. First aid measures.			
4.1. Description of first aid measures			
RESPIRATORY: Move the person to fresh air. Seek medical advice/assistance if coughing or respiratory irritation persists. INGESTION: Seek medical advice/assistance. Rinse mouth with water. Only attempt to induce vomiting on the advice of a doctor. Do not give anything by mouth if the person is unconscious. SKIN CONTACT: Shake the powder off your skin. Wash with plenty of water and soap. If irritation or redness persists, consult a doctor. EYE CONTACT: Do not rub to avoid scratching the eyes with powder particles. Keep eyelids open and rinse immediately with plenty of water for at least 15 minutes. If irritation persists, consult a doctor. .			
4.2. Acute and delayed significant symptoms and effects: Temporary mechanical and chemical irritation of the eyes and respiratory tract due to exposure to fine dust, mild skin redness.			
4.3. First signs that require medical intervention and specialized treatment. Apply symptomatic treatment.			
CHAPTER 5. Firefighting measures.			
5.1. Fire extinguishers			
SUITABLE EXTINGUISHING AGENTS: Commonly used types of fire extinguishing equipment include: carbon dioxide, foam, powder, and water vapor. UNSUITABLE EXTINGUISHING AGENTS: There is no particularly unsuitable equipment.			
5.2. Specific hazards arising from the substance or mixture			
HARMFUL EFFECTS OF EXPOSURE IN CASE OF FIRE: If thermal decomposition occurs under excessive heat, hydrogen chloride (HCl) gas may be released. Avoid inhaling combustion products.			
5.3. Recommendations for firefighting teams			
GENERAL INFORMATION: Cool containers with water jets to prevent product deterioration. Always use full fire protective equipment. Prevent extinguishing water from mixing with sewage. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING TEAMS: Self-contained open-circuit compressed air breathing apparatus (EN 137), protective clothing for firefighting (EN 469), protective gloves (EN 659) and fire fighting boots.			

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	SOLID ALUMINUM-MAGNESIUM POLYCHLORIDE	
This Safety Data Sheet has been prepared in accordance with the provisions of the Regulation No. 30105, Annex II of the KKDyK (Turkish Regulation on the Protection of Natural Resources and Chemical Products).		
CHAPTER 6. Measures against accidental release.		
6.1. Personal precautions, protective equipment and emergency procedures		
Stop the leak if there is no danger. Avoid dust generation. Use appropriate protective equipment (including P2/P3 dust mask and goggles as specified in section 8) to prevent contamination of skin, eyes and personal clothing.		
6.2. Environmental measures		
The product should not enter the sewage system or come into contact with surface or groundwater.		
6.3. Methods and materials for containment and cleaning.		
Sweep up any leaking/dripping dry dust without raising it into the air (preferably using an industrial vacuum cleaner or by slightly moistening it) and collect it in sealed waste containers. Collect the debris with an inert material. Ventilate the area. It may become excessively slippery due to moisture absorption in a wet environment; please be careful.		
6.4. References to other sections		
Information regarding personal protection and disposal is provided in sections 8 and 13.		
SECTION 7. Handling and storage		
7.1. Precautions for safe handling		
7.1. Precautions for safe handling: Use mechanical systems to prevent dust from rising. Prevent the product from spreading into the environment. Do not eat, drink, or smoke during use. Wash your hands after use.		
7.2. Conditions for secure storage, including disputes.		
Due to its highly hygroscopic (moisture-absorbing) nature, absolutely protect the product from moisture. It will clump together if it absorbs moisture. Containers Store in its original packaging in a tightly closed, cool, well-ventilated, dry place, protected from direct sunlight. Keep away from strong bases and reactive metals.		
7.3. Specific end-use(s)		
No information available.		
SECTION 8. Exposure controls/personal protection		
8.1. Control parameters		
Regulatory references: Turkish Regulation on Health and Safety Measures in Working with Chemical Substances, dated 12.08.2013 / 28733.		
General dust threshold limit value for aluminum compounds: TWA: 2 mg/m3.		
8.2. Exposure controls HAND		
PROTECTION: It is recommended to use nitrile, PVC or rubber protective gloves (EN 374).		
SKIN PROTECTION:		
Wear appropriate work attire and long-sleeved work clothing.		
EYE PROTECTION: Use safety glasses with dustproof side shields (EN 166).		
RESPIRATORY PROTECTION:		
In case of dust generation, it is mandatory to wear a dust mask with a P2 or P3 particle filter conforming to EN 149 standard.		

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CHAPTER 9. Physical and chemical properties																																									
9.1. Information about basic physical and chemical properties																																									
<table><tr><th>Features</th><th>Value</th></tr><tr><td>Physical Condition</td><td>Solid (Fine Powder or Granule)</td></tr><tr><td>Colour</td><td>Yellow / Light Yellow</td></tr><tr><td>Smell</td><td>Odorless or very slight chlorine odor</td></tr><tr><td>Melting point/freezing point</td><td>not present</td></tr><tr><td>Initial boiling point</td><td>not present</td></tr><tr><td>Flammability</td><td>not present</td></tr><tr><td>Lower explosive limits</td><td>not present</td></tr><tr><td>Upper explosive limits</td><td>not present</td></tr><tr><td>Flash point</td><td>not present</td></tr><tr><td>Flash point</td><td>not present</td></tr><tr><td>Decomposition</td><td>not present</td></tr><tr><td>temperature pH (in 1% aqueous solution):</td><td>3.5-5.0</td></tr><tr><td>Kinematic viscosity,</td><td>not present</td></tr><tr><td>solubility.</td><td>Completely soluble in</td></tr><tr><td>Coefficient of distribution: n-octanol/water</td><td>water not</td></tr><tr><td>Vapor pressure</td><td>present not</td></tr><tr><td>Density and/or Relative Density</td><td>present ~ 0.80 - 0.95</td></tr><tr><td>Relative vapor density</td><td>g/cm³ not</td></tr><tr><td>Particle properties</td><td>present applicable (in powder form)</td></tr></table>				Features	Value	Physical Condition	Solid (Fine Powder or Granule)	Colour	Yellow / Light Yellow	Smell	Odorless or very slight chlorine odor	Melting point/freezing point	not present	Initial boiling point	not present	Flammability	not present	Lower explosive limits	not present	Upper explosive limits	not present	Flash point	not present	Flash point	not present	Decomposition	not present	temperature pH (in 1% aqueous solution):	3.5-5.0	Kinematic viscosity,	not present	solubility.	Completely soluble in	Coefficient of distribution: n-octanol/water	water not	Vapor pressure	present not	Density and/or Relative Density	present ~ 0.80 - 0.95	Relative vapor density	g/cm³ not
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9.2. Other information																																									
9.2.1. Information on physical hazard classes: No information available.																																									
9.2.2. Other safety features: The percentage of water-insoluble matter is < 0.5%, and the percentage of active magnesium oxide (MgO) is 10.0%.																																									
CHAPTER 10. Stability and Reactivity																																									
10.1. Reaction																																									
It reacts exothermically with strong alkaline substances.																																									
10.2. Chemical stability																																									
It is stable in dry environments and under normal storage conditions.																																									
10.3. Possibility of harmful reactions																																									
In the presence of moisture and due to its acidic nature, it can cause corrosion when in contact with metals (carbon steel, aluminum, zinc).																																									
10.4. Situations to avoid																																									
Moisture and wet environments (cause clumping and hydrolysis of the product), high temperatures above 40°C.																																									
10.5. Substances to avoid																																									
Strong alkaline substances (NaOH, KOH, etc.) and reactive metals.																																									
10.6. Hazardous decomposition products:																																									
It releases hydrogen chloride (HCl) gas during thermal decomposition.																																									
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EPY 11.5.2 - SDS 1004.14																																									

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This Safety Data Sheet has been prepared in accordance with the provisions of the Regulation No. 30105, Annex II of the KKDyK (Turkish Regulation on the Protection of Natural Resources and Chemical Products).		
CHAPTER 11. Toxicological information		
11.1. Information about toxic effects		
<u>ACUTE TOXICITY:</u>		
It has a low toxicity level (Oral LD50, rat: >2000 mg/kg).		
<u>SKIN ABRUPTION / SKIN IRRITATION:</u>		
It causes skin irritation (H315).		
<u>SERIOUS EYE DAMAGE / EYE IRRITATION:</u>		
It causes serious eye irritation (H319).		
<u>RESPIRATORY TRACT OR SKIN SENSITIZATION:</u>		
It does not meet the classification criteria.		
<u>SEX CELL MUTAGENICITY:</u>		
It does not meet the classification criteria. Use the code carefully.		
<u>CARCINOGENICITY:</u>		
It does not meet the classification criteria.		
<u>REPRODUCTIVE TOXICITY:</u>		
It does not meet the classification criteria.		
<u>SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE:</u>		
May cause respiratory irritation (H335).		
<u>SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE:</u>		
It does not meet the classification criteria.		
<u>HARMFUL ASPIRATION:</u>		
It does not meet the classification criteria.		
11.2. Information about other hazards.		
The product does not contain substances with endocrine-disrupting properties.		

EPY 11.5.2 - SDS 1004.14

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This Safety Data Sheet has been prepared in accordance with the provisions of the Regulation No. 30105, Annex II of the KKDyK (Turkish Regulation on the Protection of Natural Resources and Chemical Products).			
CHAPTER 12. Ecological Information			
12.1. Toxicity			
Untreated spills can lower the pH balance in aquatic environments, negatively impacting local organisms.			
12.2. Persistence and degradability			
It is an inorganic compound and is not biodegradable. Aluminum and magnesium ions precipitate as natural hydroxide flocs.			
12.3. Bioaccumulation potential			
There is no bioaccumulation potential.			
12.4. Mobility in soil			
It is readily soluble and dispersed in water, but binds to the soil/sediment mineral structure through natural cation exchange.			
12.5. Results of PBT and vPvB evaluation			
It does not contain more than 0.1% PBT or vPvB substances.			
12.6. Endocrine disrupting properties			
Endocrine disrupting properties: Does not contain substances with endocrine disrupting properties.			
12.7. Other adverse effects.			
No information available.			
SECTION 13. Disposal Information			
13.1. Waste processing methods			
If possible, reuse it. Disposal should be carried out by a licensed hazardous waste disposal company in accordance with waste management regulations. Do not mix with household waste.			
CONTAMINATED PACKAGING: Contaminated packaging (PE/PP bags) must be sent to licensed facilities for recycling or disposal.			

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	SOLID ALUMINUM-MAGNESIUM POLYCHLORIDE				
This Safety Data Sheet has been prepared in accordance with the provisions of the Regulation No. 30105, Annex II of the KKDyK (Turkish Regulation on the Protection of Natural Resources and Chemical Products).					
CHAPTER 14. Transportation Information					
It does not fall into the dangerous goods category according to international transport regulations (ADR, RID, IMDG, IATA). It does not have a UN number. It can be transported safely.					
UN number					
UN 3260					
14.1. Appropriate UN shipping name					
ABRASIVE SOLID, ACIDIC, INORGANIC, BBB (Contains a mixture of Aluminum Chloride Hydroxide and Magnesium Oxide)					
14.3. Transportation hazard class(es): Class 8 (Corrosive)					
14.4. Packaging group: III					
14.5. Environmental hazards: Not a marine pollutant.					
14.6. Special precautions for the user					
Protect from moisture. Transport in an upright position in the original sealed bags.					
CHAPTER 15. Regulatory information					
15.1. Safety, health and environmental regulations specific to the substance or mixture.					
<u>Classified and labeled in accordance with the provisions of the KKDyK Regulation No. 30105 dated 23/06/2017 and the SEA Regulation No. 28848 dated 11/12/2013:</u>					
15.2. Chemical safety assessment					
No chemical safety assessment has been carried out for the mixtures.					
EPY 11.5.2 - SDS 1004.14					

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This Safety Data Sheet has been prepared in accordance with the provisions of the Regulation No. 30105, Annex II of the KKDyK (Turkish Regulation on the Protection of Natural Resources and Chemical Products).			
CHAPTER 16. Other Information			
The full text of the (H) hazard codes specified in sections 2 and 3 of the Form is as follows: H290 can corrode metals. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 may cause respiratory irritation. Prepared by: Name and Surname: Sena Nur İFAK Contact Information: 0224-3315153 Document Validity Date: 26.03.2029 Certificate Number: NBC/04.69.06			