



SOZAL CHEMICAL INDUSTRY AND TRADE INC.

SULFONATE COPOLYMER BASED
COMPOUND SCALE PREVENTER
(ANTISCALYANT)

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

HEDP, Acrylic Copolymer and Sulfonate Copolymer Based Compound Antiscalant

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

Designated Uses	Industrial	Professional	Consumer
Scale and corrosion inhibitor for industrial water treatment, cooling towers, and boilers.		-	-

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
telephone fax +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 Abrasion/Irritation, Category 1B	H314
Serious Eye Damage, Category 1	H318
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: GHS05 (Corrosive)



Warning Word:

Dangerous

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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).																			
SECTION 2. Hazard identification ... / >>																			
Hazard Statements: <table><tr><td>H290</td><td>It can corrode metals.</td></tr><tr><td>H314</td><td>It causes severe skin burns and eye damage.</td></tr></table> Precautionary statements: <table><tr><td>P280</td><td>Use protective gloves, protective clothing, eye protection, and face protection.</td></tr><tr><td>P301-P330-P331</td><td>IF SWALLOWED: Rinse your mouth. DO NOT attempt to vomit.</td></tr><tr><td>Continue with</td><td>IF IN CONTACT WITH SKIN: Immediately remove all contaminated clothing. Rinse skin with water/shower.</td></tr><tr><td>P303+P361-P353</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>P305+P351+P338.</td><td></td></tr><tr><td>P310</td><td>Call UZEM (114) or your doctor immediately.</td></tr></table>				H290	It can corrode metals.	H314	It causes severe skin burns and eye damage.	P280	Use protective gloves, protective clothing, eye protection, and face protection.	P301-P330-P331	IF SWALLOWED: Rinse your mouth. DO NOT attempt to vomit.	Continue with	IF IN CONTACT WITH SKIN: Immediately remove all contaminated clothing. Rinse skin with water/shower.	P303+P361-P353	IF IN CONTACT WITH EYES: Rinse carefully with water for several minutes. Remove contact lenses, if any, and rinse afterwards.	P305+P351+P338.		P310	Call UZEM (114) or your doctor immediately.
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P310	Call UZEM (114) or your doctor immediately.																		
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: Introducing Hydroxyethylidene Diphosphonic Acid (HEDP) Conc. %: $20 \leq x < 30$ CAS No: 2809-21-4 EC No: 220-552-8 Classification 28848/2013 (TC) SEA Regulation: Metal Corrosion 1 H290, Acute Toxic 4 H302, Eye Damage 1 H318, Skin Corrosion 1B H314 Description: Acrylic Copolymer Concentration %: $10 \leq x < 20$ < 20 Classification 28848/2013 (TC) SEA Regulation: Not classified Introduction: Sulfonate Copolymer (AMPS-based) Cons. %: $5 \leq x < 15$ Classification 28848/2013 (TC) SEA Regulation: Not classified. Water (H2O) Concentration %: $40 \leq x < 55$ CAS No: 7732-18-5 *Note: The pH value of the finished product (in 100% pure chemical) is between 1.5 and 2.5. Its density is $1.18 \pm 0.03 \text{ g/cm}^3$.																			

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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. DO NOT induce vomiting. If the person is unconscious, do not give anything by mouth. SKIN CONTACT: Immediately remove all contaminated clothing. Wash skin with plenty of water/shower. Consult a doctor immediately due to the risk of burns. EYE CONTACT: Immediately rinse with plenty of running water for at least 15 minutes, keeping eyelids open. Remove contact lenses if wearing them. Seek immediate medical attention.		
4.2. Acute and delayed significant symptoms and effects: Severe chemical burns and tissue damage in contact areas (skin and eyes) due to the highly acidic nature of the substance.		
4.3. First signs requiring medical intervention and specialized treatment: Apply symptomatic and anti-acidic tissue therapy.		
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: In case of combustion or overheating, toxic phosphorus oxides and carbon oxides may be released. Avoid inhaling combustion products.		
5.3. Recommendations for firefighting teams		
GENERAL INFORMATION: Cool the containers with water jets. Collect the extinguishing water to prevent it from being discharged into the sewer system. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING TEAMS: Self-contained open-circuit compressed air breathing apparatus (EN 137), protective clothing (EN 469) and gloves (EN 659).		

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CHAPTER 6. Measures against accidental release.

6.1. Personal precautions, protective equipment and emergency procedures
Use appropriate protective equipment (including acid-resistant gloves and goggles as specified in section 8) to prevent contamination of skin, eyes, and clothing. Do not enter the area without a mask.
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.
Contain the leaked product by creating a barrier and absorb it with an inert absorbent material (sand, silica gel, acid binder). Transfer the collected material to appropriate plastic waste containers. Waste disposal should be carried out according to section 13.
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
Avoid contact with eyes and skin. Do not eat, drink, or smoke while using the product. Wash your hands thoroughly with plenty of water after use.
7.2. Conditions for secure storage, including disputes.
Store the product only in its original plastic packaging. Keep containers closed, in a cool, well-ventilated place, away from direct sunlight. Store away from light and strong alkaline/basic substances.
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. No specific national limit value has been defined for the product components.
8.2. Exposure controls HAND
PROTECTION: Acid-resistant nitrile or PVC protective gloves are mandatory (EN 374). SKIN PROTECTION: Chemical-resistant protective apron or protective clothing. Full protective safety glasses or face shields must be used (EN 166 RESPIRATORY PROTECTION: In case of insufficient ventilation or evaporation, combination masks with acid gas filters must be worn (EN 14387)).

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CHAPTER 9. Physical and chemical properties			
9.1. Information about basic physical and chemical properties			
Features	Value		
Physical Condition			
Colour	Liquid Light yellow - Amber (amber) transparent liquid		
Smell	Characteristic, slightly		
Melting point/freezing point	acidic <=		
Initial boiling point	-10°C >		
Flammability	100°C Not available (non-		
Lower explosive limits	flammable)		
Upper explosive limits	Not available		
Flash point	Not available		
Flash point	Not available		
Decomposition	Not available		
temperature pH (in 1% aqueous solution):	Not		
Kinematic viscosity,	available		
solubility.	1.5-2.5 Not available Completely soluble in water in		
Coefficient of distribution: n-octanol/water	any proportion		
Vapor pressure	Not available		
Density and/or Relative Density	Not available (20°C): 1.18 ±		
Relative vapor density	0.03 g/cm³ Not		
Particle properties	available Applicable (in liquid form)		
9.2. Other information			
9.2.1. Information on physical hazard classes: Corrosive for metals, Category 1.			
9.2.2. Other safety features:			
Inhibition efficiency >= 85%, Chelation rate >= 90%.			
CHAPTER 10. Stability and Reactivity			
10.1. Reaction			
It reacts violently exothermically with strong bases and alkalis.			
10.2. Chemical stability			
Chemical stability: Stable under normal use and storage conditions.			
10.3. Possibility of harmful reactions			
Potential for harmful reactions: It can have a corrosive effect upon contact with metals, releasing hydrogen gas.			
10.4. Situations to avoid			
Extremely high temperatures and direct contact with incompatible substances.			
10.5. Substances to avoid			
Strong bases (NaOH, KOH, etc.), alkaline chemicals, and reactive metals.			
10.6. Hazardous decomposition products:			
In thermal decomposition, phosphorus oxides, carbon monoxide, and carbon dioxide are produced.			

EPY 11.5.2 - SDS 1004.14

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CHAPTER 11. Toxicological information

11.1. Information about toxic effects

ACUTE TOXICITY: _____

The mixture itself has low oral toxicity, but its acidic nature can irritate the digestive tract.

SKIN ABRUPTION / SKIN IRRITATION: _____

It causes severe skin burns (H314).

SERIOUS EYE DAMAGE / EYE IRRITATION: _____

Risk of permanent eye damage, corneal loss, and blindness (H318).

RESPIRATORY TRACT OR SKIN SENSITIZATION: _____

It does not meet the classification criteria.

SEX CELL MUTAGENICITY: _____

It does not meet the classification criteria. Use the code carefully.

CARCINOGENICITY: _____

It does not meet the classification criteria. -

REPRODUCTIVE TOXICITY: _____

It does not meet the classification criteria. -

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE: _____

May cause respiratory irritation (H335).

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE: _____

It does not meet the classification criteria.

HARMFUL ASPIRATION: _____

It does not meet the classification criteria. -

11.2. Information about other hazards.

The product does not contain substances with endocrine-disrupting properties.

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CHAPTER 12. Ecological Information

12.1. Toxicity
When discharged directly into water sources, it can cause a local pH drop, harming aquatic organisms.
12.2. Persistence and degradability
The polymers and organic phosphonates it contains are slowly biodegradable.
12.3. Bioaccumulation potential
Bioaccumulation potential is low.
12.4. Mobility in soil
Because it dissolves completely in water, it is mobile in water systems.
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
Product residues should be treated as hazardous waste. Disposal must be carried out by a licensed company in accordance with local hazardous waste management regulations. Do not mix with household waste.
CONTAMINATED PACKAGING: Empty plastic packaging must be sent to licensed hazardous waste facilities for recycling or disposal.

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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 3265					
14.1. Appropriate UN shipping name					
: Corrosive acidic organic liquid, BBB (contains a mixture of HEDP and copolymer)					
14.3. Transportation hazard class(es): Class 8 (Corrosive)					
14.4. Packaging group: II					
14.5. Environmental hazards: Not a marine pollutant.					
14.6. Special precautions for the user					
Keep away from alkaline substances, and transport upright in an airtight container.					
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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CHAPTER 16. Other Information

The full text of the (H) hazard codes specified in sections 2 and 3 of the Form is:

- H290 May corrode metals.
- H302 is harmful if swallowed.
- H314 Causes serious eye irritation.
- H318 Causes serious eye damage.

Prepared by:

Name and Surname: Sena Nur

 AF K Contact Information:

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