

MATERIAL SAFETY DATA SHEET (MSDS)



Product Name: Sodium Polyacrylate CAS Numarası: 9003-04-7 Form:	GBF NO	000136
	ISSUE DATE	10/10/2017
	REVISION NO	003
	REVISION DATE	01/08/2025
Prepared in accordance with the Regulation on Safety Data Sheets for Hazardous Substances and Mixtures (O.G.13.12.2014-29204)		

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Name: Sodium Polyacrylate

Intended Use: Superabsorbent polymer for industrial and consumer products

Identified Uses:

- Superabsorbent agent in baby diapers and hygiene products
- Soil moisture retention agent in agriculture
- Absorbent material in spill control products
- Additive in cement, concrete, and composite materials to regulate water retention

Applications:

- Manufacturing of personal care absorbent products
- Soil conditioning and landscaping
- Industrial cleaning and spill absorption
- Construction chemicals for moisture control

Company Details:

Company Name: Star Kimya San. Ltd. Şti.

Address: İvogsan 1469. Cd. No:5 Yenimahalle, Ankara, TÜRKİYE

Phone: +90 312 395 51 11

Website: www.starkimya.com

E-mail: info@starkimya.com

Emergency Contact Number: 114 (National Poison Information Center – UZEM, Türkiye)

2. HAZARDS IDENTIFICATION

Classification according to Regulation (EC) No. 1272/2008 [CLP]:

Not classified as hazardous.

Label Elements:

- Signal Word: None
- Hazard Statements: None
- Precautionary Statements:
 - P261: Avoid breathing dust.
 - P280: Wear protective gloves and eye protection.

Other Hazards:

- Dust may cause mechanical irritation to eyes and respiratory system.
- Slippery when wet due to gel formation.

3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT NAME	CAS NO	EC NO	% CONCENTRATION	CLP Classification / H Statements
Potasyum Asetat	127-08-2	204-822-2	%45	-

4. FIRST AID MEASURES

Inhalation: Move the person to fresh air. If symptoms persist, seek medical attention.

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Skin Contact: Wash with plenty of water. If irritation occurs, consult a physician.
Eye Contact: Flush with water for at least 15 minutes. Remove contact lenses if present. Seek medical attention if irritation persists.
Ingestion: Rinse mouth with water. If symptoms develop, consult a doctor.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Dry chemical, foam, water spray, CO₂.
Hazardous Decomposition Products: Carbon dioxide (CO₂), carbon monoxide (CO), acrylate vapors
Protective Equipment: Firefighters should wear full protective clothing and self-contained breathing apparatus (SCBA).

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid dust generation. Use suitable PPE including gloves and dust mask.
Environmental Precautions: Prevent entry into drains and soil.
Cleaning Methods: Sweep or vacuum dry material. Collect in labeled containers. Avoid using water as it may create slippery surfaces.

7. HANDLING AND STORAGE

Handling: Avoid dust formation. Use local ventilation in dusty environments.
Storage: Store in a dry, cool, and well-ventilated area. Keep container tightly closed. Protect from moisture.
Incompatible Materials: Strong oxidizers, acids

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:
Ensure adequate ventilation in the working area.
Personal Protective Equipment (PPE):

- Eye Protection: Safety goggles
- Skin Protection: Impermeable gloves
- Respiratory Protection: Dust mask (FFP2 or FFP3 recommended)
- Other: Protective clothing in high exposure areas

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	White powder or granules
Odor	Odorless
pH (in water, 1%)	6–8
Bulk Density	~0.6 g/cm ³
Solubility	Insoluble in water; swells
Hygroscopic Behavior	Highly absorbent

10. STABILITY AND REACTIVITY

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Stability: Stable under normal conditions.
Conditions to Avoid: Excess heat and moisture
Incompatible Materials: Strong acids, bases, and oxidizers
Hazardous Decomposition Products: CO₂, CO, acrylate compounds

11. TOXICOLOGICAL INFORMATION

- Oral LD50 (rat): >5000 mg/kg
- Inhalation: Dust may irritate respiratory tract
- Skin Contact: Not classified as irritating
- Eye Contact: May cause mechanical irritation

12. ECOLOGICAL INFORMATION

- **Biodegradability:** Not readily biodegradable
- **Aquatic Toxicity:** Not classified as toxic
- **Environmental Effects:** May cause mechanical obstruction to aquatic organisms due to swelling in water

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local and national regulations.
Empty packaging may be recycled after thorough cleaning.

14. TRANSPORT INFORMATION

UN Number: Not applicable
ADR / RID / IMDG / IATA Classification: Not classified as hazardous for transport
Packing Group: Not applicable
Environmental Hazards: None

15. REGULATORY INFORMATION

This Safety Data Sheet is prepared in accordance with the following regulations:

- **Regulation (EC) No 1272/2008 (CLP)**
- **Regulation on Safety Data Sheets for Hazardous Substances and Mixtures [Official Gazette: 13/12/2014 – 29204]**
- **Regulation on Transport of Dangerous Goods by Road [Official Gazette: 24/10/2013 – 28801]**

16. OTHER INFORMATION

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This SDS is based on current knowledge and is intended to describe the product in terms of health, safety, and environmental requirements only. It does not represent any warranty of product properties. The information provided is valid only when the product is used for its intended applications. Any other use may involve risks not covered in this document. Consult the manufacturer before using the product for unlisted applications.

Risk Phrases of Components Listed in Section 2:

– Sodium Polyacrylate: Not classified

SDS Prepared by:

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Title: Chemical Engineer – Star Kimya R&D Department

Preparation Date: 01.08.2025

Version: 01

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Note: This document is electronically approved and does not require a signature.