

Section 1. Product and Company Identification

Product Name Polyacrylic Acid
CAS Number 9003-01-4

Parchem - fine & specialty chemicals
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Section 2. Hazards Identification

Classification of the substance or mixture

Acute Toxicity: Oral (Category 5)
Acute Toxicity: Inhalation (Category 5)
Acute Toxicity: Dermal (Category 5)
Eye Damage/Irritation: (Category 2B)

GHS Label Elements

Pictograms:



Signal word: WARNING

Hazard and precautionary statements

Hazard Statements

H303: May be harmful if swallowed
H333: May be harmful if inhaled
H313: May be harmful in contact with skin
H320: Causes eye irritation

Precautionary Statements

P264: Wash contact area thoroughly after handling
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P303 + P361 + P353: IF ON SKIN or hair: Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower
P305 + P351 + P338: IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



P337 + P313: If eye irritation persists: Get medical advice/attention
P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P304 + P340 + P310: IF INHALED: Remove person to fresh air and keep in position comfortable for breathing
P312: Call a POISON CENTER or doctor/physician if feeling unwell
P403 + P235: Store in a well-ventilated place. Keep cool. P273 + P405 : Avoid release to the environment. Store Locked Up.
P501: Dispose of contents/container in accordance with local/state/federal regulations.

Section 3. Composition / Information on Ingredients

Common Name	Polyacrylic Acid
Synonym(s)	Polyacrylic Acid Homopolymer
CAS Number	9003-01-4

Section 4. First Aid Measures

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Eyes: Flush skin with running water for at least fifteen minutes. Remove any contact lenses. Get medical aid/attention immediately. Continue to rinse eyes during transport to the hospital.

Skin: Remove contaminated clothing. Wash skin with plenty of running water and soap. Take victim immediately to the hospital. Consult a physician.

Ingestion: If the product is swallowed, first rinse mouth. Give small amount of water to drink. Call doctor/physician/poison center immediately. Do not induce vomiting. Never give anything by mouth to an unconscious person. If a person vomits, place him/her in recovery position so the vomit does not enter lungs.

Inhalation: If safe to do so, remove individual from further exposure. Keep warm and at rest. If breathing has ceased, give artificial respiration. Do not give mouth to mouth resuscitation. Get medical attention/consult a physician immediately.

Note to Physician: Treat symptomatically.

PPE for first responders: Gloves and safety goggles are highly recommended.

Section 5. Firefighting Measures

Flash Point (°C): No data available.

Flammable Limits: Not applicable.

Auto ignition Temp.: Not applicable.

Decomposition Temp.: No data available.

General Hazard: Evacuate personnel downwind in-order to avoid inhalation of irritating and/or harmful fumes and smoke.

Extinguishing Media: Water spray, chemical-type foam, dry powder. Appropriate for the surrounding area. Do not use water jet.

Hazardous Decomposition Products: Oxides of carbon may be evolved during fires.



Fire Fighting Procedures: This product is a non-flammable substance. However, hazardous decomposition and combustion products such as carbon and sulfur oxides can be formed if product is burning. Material can splatter above 100C/212F. Cool exposed containers with water Spray to prevent overheating. Dry residue of the product may also burn.

Fire Fighting Equipment: Respiratory and eye protection are required for firefighting personnel. Full protective equipment (bunker gear) and self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires. Evacuate area and fight fire from safe distance or a protected location. Move fire-exposed containers, if allowable without sacrificing the safety of others and firefighters. If possible without risk, firefighters should control run-off water to prevent environmental contamination.

Sensitivity to Static Discharge: Not sensitive.

Sensitivity to Mechanical Impact: Not sensitive.

Section 6. Accidental Release Measures

Protective Gear for Personnel

For Small Spill: Safety glasses or chemical splash goggles, chemically resistant gloves (rubber/latex), chemically resistant boots, and any appropriate body protection to minimize direct contact to the skin.

For Large Spill: Triple gloves (rubber and nitrile over latex), chemical resistant suit, boots, hard hat, full face mask/an air purifying respirator (NIOSH approved). Self-contained breathing apparatus must be worn in situations where fumigant gas generation and low oxygen levels are a consequence of contamination from the leak.

Spill Clean-up Procedures

For Small Spill: In the event of a small spill, the leak should be contained with an absorbent pad and placed in a properly labeled waste disposal container immediately. Clean the spill area with water. Do not let chemical/waste enter the environment.

For Large Spill: In the event of a large spill, contain the spill immediately and dispose according to state, federal, and local hazardous waste regulation. Do not let chemical/waste enter the environment.

Environmental Precaution

Water spill: use appropriate containment to avoid run off or release to sewer or other waterways.

Land spill: use appropriate containment to avoid run off or release to ground.

General precaution: remove containers of strong acid and alkali from the release area.

Release Notes: If spill could potentially enter any waterway, including intermittent dry creeks, contact local authorities.

Section 7. Handling and Storage

Handling: Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Do not inhale vapor or mist. Use with adequate ventilation. For industrial use only! Keep away from sources of ignition. Handle in a manner consistent with good industrial/manufacturing techniques and practices. Wash hands thoroughly with soap and water after use. Remove contaminated clothing and protective



equipment before entering eating areas.

Storage: Store in a cool, dry well-ventilated area. Keep containers closed when not in use. Keep product isolated from incompatible materials/conditions such as freezing temperatures. Empty containers retain vapor and material residue. Observe all recommended safety precautions until container is cleaned, reconditioned or destroyed. Do not store with alkalis and oxidizing agents. Keep away from food, drink and animal feeding.

Section 8. Exposure Controls / Personal Protection

Engineering Controls: Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Personal Protective Equipment

Eyes and face: Wear safety glasses with side shields or goggles when handling this material. OSHA Standard - 29 CFR 1910.133 or ANSI Z87.1- 2010

Skin: Avoid direct contact with skin. Wear chemically resistant gloves, apron, boots or whole bodysuit when handling this product. OSHA Standard - 29 CFR 1910.138
Respiratory: Avoid breathing vapor or mist. Use NIOSH approved respiratory protection equipment when air borne exposure is excessive. If used, full face-piece replaces the need for face shield and/or chemical goggles. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. OSHA Standard CFR 1910.134

Work Hygienic Practices: Facilities storing or using this material should be equipped with emergency eyewash, and a safety shower. Good personal hygiene practices should always be followed.

Exposure Limits

Polyacrylic Acid

OHSA STEL: N/A

OHSA PEL: N/A

ACGIH TLV: N/A

ACGIH STEL: N/A

Section 9. Physical and Chemical Properties

Appearance: Clear Liquid

Odor: Characteristic

Odor threshold: Not available

Color: Colorless to Pale Yellow Liquid

pH (1% Soln.): 3.0 - 4.5

Melting Point: Not available

Freezing Point: < -5 °C

Boiling Range: >100 °C

Flash Point: Not applicable.
Viscosity (mPa.s): No data available
Decomposition Temp.: No data available
Evaporation Rate: Not available
Flammability: Not flammable
Upper Explosive Limit: Not available
Vapor Pressure: 3.2 kPa @ 25 °C (Water)
Vapor Density: No data available
Specific Gravity: 1.20 Min
Solubility: Soluble in water

Section 10. Stability and Reactivity

Stability: The product is stable under normal ambient conditions of temperature and pressure.
Polymerization: Polymerization may occur at higher temperatures.
Hazardous Decomposition Products: Thermal decomposition may yield acrylic monomers and hydrocarbons. Fire/burning of the product may yield toxic fumes of carbon oxides and sulfur oxides.
Incompatible Materials: Strong alkalis, amines, nitrites, sulfites, reducing agents, oxidizing agents.
Conditions to Avoid: Avoid exposure to extreme temperatures, contact with incompatible chemicals, uncontrolled contact with accelerants. Protect from freezing. Keep away from direct sunlight.

Section 11. Toxicological Information

Acute Toxicity

Oral LD50: > 2500 mg/kg (Rat); 4600 mg/kg (Mouse)

Dermal LD50: ATE Value > 5000 mg/kg (Statements on toxicity have been derived from similar products)

Inhalation LD50: No data available

Corrosion/Irritation

Skin: Rat 2000 mg/kg

Eyes: Rabbit 2mg - moderate

Sensitization

Respiratory: No data available.

Skin: No data available.

Carcinogenicity: IARC CARCINOGEN LIST: GROUP 3

Mutagenicity: No data available.

Reproductive Effects: No data available.

Teratogenic Effects: No data available.

Routes of Exposure: Eyes, Skin, Inhalation.



Long Term Exposure Health Effects

Eyes: Can cause severe irritation to the eyes if exposure is prolonged.

Skin: Can cause significant irritation if exposure is prolonged.

Inhalation: Can lead to coughing, nasal congestion, tightness of chest and /or shortness of breath.

Ingestion: Can lead to possible nausea or vomiting.

Section 12. Ecological Information

All work practices must be aimed at eliminating environmental contamination.

Biodegradability: No data available.

Bioaccumulative Potential: No data available.

Terrestrial Ecotoxicity: This material may be harmful or fatal to contaminated plants or animals, especially if large volumes are released into the environments.

Aquatic Ecotoxicity: This material may be harmful or fatal to the aquatic environments if large volumes are released.

Aquatic Invertebrates: No data available.

Mobility in Soil: No data available.

Other Adverse Effects: No data available.

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

US DOT: None

IMDG: None

IATA: None

Section 15. Regulatory Information

U.S. Federal Regulations

TSCA Status: All components of this product are in compliance with TSCA

CERCLA Section 103 (40 CFR 302.4): No components of this products are listed.

Section 311/312 Categorizations (40 CFR 370): Not hazardous

SARA Section 313: No components of this products are listed.

HMIS Rating

Health: 1



Flammability: 0
Physical Hazard: 0
Personal Protection: B

NFPA Rating:
Health: 1
Fire Hazard: 0
Reactivity: 0

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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