

MATERIAL SAFETY DATA SHEET

WATER RETENTION CRYSTALS

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Issue Date: 07/09

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Chemical Product

WATER RETENTION CRYSTALS

Common Name: Soil conditioner.

Chemical Description: Potassium polyacrylate, Cross-linked.

TSCA/CAS No.: This primary CAS No. is 25608-12-2.

Manufactured For

Lawn & Garden Products, Inc.

P. O. Box 35000

Fresno, CA 93745-5000

Emergency Phone Numbers

Emergency Telephone: DAYS: (559) 499-2100 EVES.: (559) 994-9144

CHEMTREC (24-Hour Emergency Number): (800) 424-9300

EPA National Response Center: (800) 424-8802

SECTION 2. HAZARDOUS INGREDIENTS

CHEMICAL	CAS NO.	%	TLV OR PEL	RQ (lbs)
None.				

* N.A. - Not Available.

* N.P. - Not Pertinent.

SECTION 3. EMERGENCY/HAZARDS OVERVIEW

White granular, odorless powder that yields a gel-like material with the addition of water. May cause eye and skin irritation. Inhalation of dusts may cause respiratory irritation. May cause irritation of swallowed. Not D.O.T. regulated.

HEALTH: 1 REACTIVITY: 0 FLAMMABILITY: 0 ENVIRONMENT: 0
(0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)

SECTION 4. FIRST AID

Eyes: Flush eyes immediately with plenty of water for at least 15 minutes. Seek medical attention if irritation.

Skin: Remove polyacrylate absorbent dust from skin using soap and water.

Ingestion: If ingestion of a large amount occurs, seek medical attention.

Inhalation: Move person to fresh air. Seek medical attention if symptoms persist.

SECTION 5. FIRE AND EXPLOSION HAZARDS

Flash Point:	Not applicable.
Test Method:	Not applicable.
LEL Flammable Limits:	Not applicable.
UEL Flammable Limits:	Not applicable.
Autoignition Temperature:	Not available.
Flammability Classification:	Not available.
Known Hazardous Products of Combustion:	Not available.
Properties that Initiate/Contribute to Intensity of Fire:	Not available.
Potential For Dust Explosion:	Dusts may form an explosive mixture.
Reactions that Release Flammable Gases or Vapors:	None.
Potential For Release of Flammable Vapors:	None.
Unusual Fire & Explosion Hazards:	Burning may produce oxides of carbon and nitrogen.
Extinguishing Media:	Dry chemical, foam, carbon dioxide, water fog.
Special Firefighting Procedures:	Wear self-contained breathing apparatus and chemical-protective clothing.

SECTION 6. SPILLS AND LEAKS

Containment:	Prevent product spillage from entering drinking water supplies or streams.
Clean Up:	Sweep up and package for disposal. Avoid respirable dust inhalation during clean-up.
Evacuation:	Not necessary.

SECTION 7. STORAGE AND HANDLING

Storage:	Store in a location away from children and pets. Keep containers tightly closed in a dry, cool and well ventilated place.
Transfer Equipment:	Transfer product using chemical-resistant plastic or stainless steel tanks, pumps, valves, etc.
Work/Hygienic Practices:	Keep out of reach of children. Always wash hands with soap and water before handling food or smoking. Use good chemical hygiene practices when working with any chemical.

SECTION 8. PERSONAL PROTECTIVE EQUIPMENT

Eyes:	Wear safety goggles (chemical goggles) if there is potential for airborne dust particles.
Skin:	Wear chemical resistant gloves and protective clothing when handling the product in a manufacturing environment.
Respiratory:	None required for normal use.
Ventilation:	Under normal use conditions, normal ventilation is okay. Respirable dust TLV is 3 mg/m ³ , inhalable dust 10 mg/m ³ .

SECTION 9. PHYSICAL AND CHEMICAL DATA

Appearance:	White granular powder.
Odor:	None.
Particle Size:	800 – 2,000 microns.
pH:	~ 7.7 (1 g/l in water).
Vapor Pressure:	< 15 mm Hg @ 20°C (68°F).
Vapor Density (Air = 1):	Not established.
Boiling Point:	Not applicable.
Freezing Point:	Not applicable.
Water Solubility:	Essentially insoluble.
Density:	0.7 g/cm ³
Bulk Density:	~ 650 kg/m
Evaporation Rate:	Not applicable.
Viscosity:	Not available.
% Volatile:	Not available.
Octanol/Water Partition Coefficient:	Not available.
Saturated Vapor Concentration:	Not available.

SECTION 10. STABILITY AND REACTIVITY

Stability:	Stable.
Conditions To Avoid:	None.
Incompatibility:	None.
Hazardous Decomposition Products:	On thermal decomposition, oxides of carbon and nitrogen.
Hazardous Polymerization:	Will not occur.

SECTION 11. POTENTIAL HEALTH EFFECTSAcute Effects:

Eyes:	May cause eye irritation. Rabbit: Very slight eye irritation – Particle effect. Method OECD No. 405.
Skin:	Rabbit: No irritation. Method OECD No. 404. Sensitization: Guinea pig: No sensitization. Method OECD 406.
Ingestion:	May cause slight irritation. LD ₅₀ rat: > 5,000 mg/kg.
Inhalation:	Inhalation of respirable dust may cause irritation of the upper respiratory tract and lungs.

Subchronic Effects: Not known.

Chronic Effects: A chronic (two-year) lifetime inhalation study on rats, carried out with micronized dust of a superabsorbent polymer (in order to produce fully respirable particles) resulted in an unspecified inflammatory reaction in the lungs which caused the formation of tumors in some animals receiving the highest chronically administered concentration (see exposure controls/protective equipment in section 8). Without chronic inflammation, tumors are not to be expected. The study produced a NOEL definition of 0.05 mg/m³ for micronized dust of superabsorbent polymer.

SECTION 12. ECOLOGICAL INFORMATION

Algal/Lemna Growth Inhibition: Not known.
Toxicity to Fish and Invertebrates: *Leuciscus idus*: LC₅₀ > 5500 mg/L. 96 hr exposure-OECD No. 203.
Danio rerio: LC₅₀ > 4000 mg/l. 96 hr exposure – OECD No. 203.
Toxicity to Plants: Not known.
Toxicity in Birds: Not known.

SECTION 13. DISPOSAL

Do not contaminate lakes, streams, ponds, estuaries, oceans or other waters by discharge of waste effluents or equipment washwaters. Dispose of waste effluents according to state and local regulations. Also, chemical additions or other alterations of this product may invalidate any disposal information in this MSDS. Therefore, consult local waste regulators for proper disposal. Do not discharge.

SECTION 14. TRANSPORTATION

D.O.T.: Not D.O.T. Regulated.
Other Shipping Description: Fertilizing Compounds (Manufactured), Dry, Pkgd.
NMFC Item 68140 Sub 4, LTL Class 60

SECTION 15. REGULATORY INFORMATION

CERCLA: None.
SARA TITLE III, Section 313 Toxic Chemicals: None.
Proposition 65: None.

SECTION 16. OTHER

All information appearing in this document was based on data provided by third party sources and was compiled to comply with the Federal Hazard Communication Standard and the California Hazardous Substances Information and Training Act. The information is believed to be accurate as of the preparation date, but is not warranted as being the final authority in the use of this product. This information does not purport to be legal or medical advice.