



5800 Park Vista Circle
Keller, TX 76244
Ph#1 (800) 929-9425
F#1 (817) 741-0879
Web: www.lonestarcandlesupply.com

Product: **Water Crystals**
(Polyacrylamide - HydroPam)

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1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade Name: Water Crystals (Polyacrylamide - HydroPam)

Supplier: Lone Star Candle Supply, Inc.
5800 Park Vista Circle
Keller, TX 76244
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1.2 Emergency telephone numbers are to be used only in the event of chemical emergencies involving a spill, leak, fire exposure, or accident involving the product. All non-emergency questions should be directed to the customer service number.

1 (817) 741-0876 Domestic USA, Canada, Puerto Rico, and US Virgin Islands
International

2. Hazards Identification

Emergency Overview

This product is a white, granular, odorless polymer that yields a gel-like material with the addition of water. It is insoluble in water and causes extremely slippery conditions when wet. Although not regulated as a hazardous material, the respirable dust is a potential respiratory tract irritant. The manufacturer recommends an eight-hour exposure limit of 0.05 mg/m³.

Potential Health Effects: Eyes

Dust may cause burning, drying, itching and other discomfort, resulting in reddening of the eyes.

Potential Health Effects: Skin

Exposure to the dust, such as in manufacturing, may aggravate existing skin conditions due to drying effect.

Potential Health Effects: Ingestion

Although not a likely route of entry, test results have shown that polyacrylate absorbents are non-toxic if ingested. However, as in any instance of non-food consumption, seek medical attention in the event of any adverse symptoms.

Potential Health Effects: Inhalation

Exposure to respirable dust may cause respiratory tract and lung irritation and may aggravate existing respiratory conditions. The statement in Section 6 is important when cleaning up spilled product: "Avoid respirable dust. Do not sweep product. Vacuum up the product (using a HEPA filter is mandatory) when possible. If no vacuum is available, moisten down the product and scoop up and place into an approved disposable container."

HMIS Ratings:

Health: 1**Fire: 0****Reactivity: 0**

Hazard Scale: 0 = Minimal

1 = Slight

2 = Moderate

3 = Serious

4 = Severe

* = Chronic hazard

3. Composition / Information on Ingredients***

CAS

Component 31212-13-2

2-Propenoic acid, potassium salt, polymer with 2-propenamide



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Component Information/Information on Non-Hazardous Components

The components of this product are not regulated as hazardous under 29CFR and 49CFR. However, the manufacturer recognizes the potential for respiratory tract irritation as a result of inhalation of this material as a respirable dust. See Sections 8, 11, 14 and 15 for further regulatory information.

4. First Aid Measures

First Aid: Eyes

Immediately flush eyes with plenty of water for at least 15 minutes.

First Aid: Skin

Remove absorbent dust from skin using soap and water.

First Aid: Ingestion

Non-toxic by ingestion. However, if adverse symptoms appear, seek medical attention.

First Aid: Inhalation

If inhaled, move to source of fresh air. Seek medical attention if symptoms persist.

5. Fire Fighting Measures

General Fire Hazards

Fine dust can form explosive mixtures with air. Take measures against electrostatic charge.

Upper Flammable Limit (UFL):

Not Established

Lower Flammable Limit (LFL):

Not Established

Method Used: None

Flash Point: None

Flammability Classification: None

Hazardous Combustion Products

On thermal decomposition, oxides of carbon and nitrogen.

Extinguishing Media

Dry chemical foam, carbon dioxide, water fog. Extremely slippery conditions are created if spilled product comes in contact with water.

Fire Fighting Equipment/Instructions

Firefighters should wear full protective clothing including self-contained breathing apparatus.

NFPA Ratings:

Health: 1

Fire: 1

Reactivity: 0

Hazard Scale: 0 = Minimal

1 = Slight

2 = Moderate

3 = Serious

4 = Severe

6. Accidental Release Measures

Containment Procedures

Avoid respirable dust. Do not sweep product. Vacuum up the product (using a HEPA filter is mandatory) when possible. If no vacuum is available, moisten down the product and scoop up and place into an approved disposable container.



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Clean-Up Procedures

Use caution after contact of product with water, as extremely slippery conditions will result. Residuals may be flushed with water into the drain for normal wastewater treatment. This is a non-hazardous waste suitable for disposal in an approved solid waste landfill.

Evacuation Procedures

None required

Special Procedures

Avoid respirable dust inhalation during clean up. Wear appropriate respirator.

7. Handling & Storage

Handling Procedures

Handle as an eye and respiratory tract irritant.

Storage Procedures

Store in a dry, closed container.

8. Exposure Controls/Personal Protection

Exposure Guidelines**A: General Product Information**

This product is not regulated as a hazardous material. However, the manufacturer recognizes the potential for respiratory tract irritation and recommends an eight-hour exposure limit of 0.05 mg/m³.

B: Component Exposure Limits

Respirable dust: Stewart TLV is 3mg/m³, inhalable dust 10 mg/m³.

Engineering Control

Provide local exhaust ventilation to maintain exposure to less than 0.05 mg/m³ over an eight-hour period.

PERSONAL PROTECTIVE EQUIPMENT**Personal Protective Equipment: Eyes/Face**

Wear safety glasses with side shields or goggles.

Personal Protective Equipment: Skin

Use impervious gloves when handling the product in the manufacturing environment.

Personal Protective Equipment: Respiratory

Wear respirator with a high efficiency filter if particulate concentrations in the work area exceed 0.05 mg/m³ over an eight-hour period.

Personal Protective Equipment: General

Obey reasonable safety precautions and practice good housekeeping. Wash thoroughly after handling.



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9. Physical & Chemical Properties

Appearance: White granular powder

Odor: None

Physical State: Solid

pH: 6.75 (1% in water)

Vapor Pressure: <15 mm Hg

Vapor Density: Not established

Boiling Point: Not applicable

Melting Point: >390°F (>200°C)

Solubility (H₂O): Not soluble

Specific Gravity: 0.7 g/ml

Evaporation Rate: <1.0

Flash Point: Not applicable

10. Chemical Stability & Reactivity Information

Chemical Stability

The product is stable.

Chemical Stability: Conditions to Avoid

None

Incompatibility

None

Hazardous Decomposition

None known

Hazardous Polymerization

Will not occur

11. Toxicological Information

Acute and Chronic Toxicity

A: General Product Information

Acute inhalation of respirable dust may cause irritation of the upper respiratory tract and lungs.

B: Acute Toxicity-LD₅₀/LC₅₀

Acute oral toxicity: LD 50 rat

Dose: 5000 mg/kg

Method: Limit test

Acute dermal toxicity: LD 50 rat

Dose: 2000 mg/kg

Method: Limit test

Skin Irritation: Rabbit

Method: OECD Nr.404 Not irritant



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Eye Irritation: Rabbit:

Method: OECD Nr.405 Very slight irritant

Sensitization: Guinea Pig

Method: OECD Nr.406

Result: 0/20 No sensitization

Carcinogenicity**Component Carcinogenicity**

No information is available.

Chronic Toxicity

Chronic inhalation exposure to rats for a lifetime (two years) using sodium polyacrylate that had been micronized to a respirable particle size (less than 10 microns) produced non-specific inflammation and chronic lung injury at 0.2 mg/m³ and 0.8 mg/m³. Also, at 0.8 mg/m³, tumors were seen in some test animals. In the absence of chronic inflammation, tumors are not expected. There were no adverse effects detected at 0.05 mg/m³.

Mutagenicity

A similar polyacrylate absorbent had no effect in mutagenicity tests.

12. Ecological Information**Ecotoxicity A: General Product Information**

Similar composted polyacrylate absorbents are non-toxic to aquatic or terrestrial organisms at predicted exposure levels from current application rates.

Ecotoxicity B: Ecotoxicity:**Biodegradability:**

Method: OECD Nr. 302B

Practically no degradation

Physico-chemical removability:

The product is easy to eliminate in water-treatment plants due to its insolubility.

Ciliate toxicity:Tetrahymena pyriformis EC₅₀>6,000 mg/l

Method: Erlanger Ciliate tests (Prof Graf).

Bacterial toxicity:Ps. Putida EC₅₀>6,000 mg/l

Exposure time: 24 hours

Fish toxicity:Leuciscus idus LC₅₀.5,500 mg/l

Exposure time: 24 hours

Fish toxicity:Brachydanio rerio LC₅₀>4,000 mg/l

Exposure time: 96 hours



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Environmental Fate

Similar polyacrylate absorbents are relatively inert in aerobic and anaerobic conditions. They are immobile in landfills and soil systems (>90% retention), with the mobile fraction showing biodegradability. They are also compatible with incineration of municipal solid waste. Incidental down-the-drain disposal of small quantities of polyacrylic absorbents will not affect the performance of wastewater treatment systems.

13. Disposal Considerations**US EPA Waste Number & Descriptions****A: General Product Information**

This product is a non-hazardous waster material suitable for approved solid waste landfills.

B: Component Waste Numbers

Dispose of in accordance with Local, State and Federal regulations.

14. Transportation Information**Internal Transportation Regulations**

This product is not regulated as a hazardous material by the United States (DOT) or Canadian (TDG) transportation regulations.

15. Regulatory Information**US Federal Regulations A: General Product Information**

This product is not federally regulated as a hazardous material.

B: Clean Air Act

No information is available.

C: Component Analysis

No information is available.

State Regulations A: General Product Information

This product is not regulated by any state as a hazardous material.

B: Component Analysis - State

This product contains 50 ppm residual acrylamide (CAS #79-06-1), and the following recognize acrylamide as a carcinogen or suspected carcinogen: CA (Prop 65), MA, MN, NJ & PA. **Component Analysis - WHMIS IDL.**

This product complies with the requirements of the European Union's RoHS2 Directive, formally known as "Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment." **REACH SVHC**

This product contains no Substances of Very High Concern (SVHC) as identified by the European Chemicals Agency (ECHA) under the European Union's REACH regulation 1907/2006/EC.

Component Analysis - Inventory

Component CAS# TSCA CAN EEC 2-Propenoic acid, potassium salt, polymer with 2-propenamide
31212-13-2 Yes DSL No



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16. Other Information

The information provided in this Safety Data Sheet is correct to the best of our knowledge information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.