

Rainbow Gel Beads

1. Identification of the product and the company

Supplier:

Crystals
WaterGelCrystals.com
10317 Vigilante Trail
Converse, TX 78109-1701
(210)659-2710
E-mail: info@watergelcrystals.com

2. Composition/Information on Ingredients

CAS #	Component	Percent	OSHA HAZARD
31212-13-2	2-Propenoic acid, potassium salt, polymer with 2-propenaqamide		
Not Available	Post Treated – Trade Secret		

3. Hazards Identification

Emergency Overview

These products are granular, odorless polymers that yield a gel-like material with the addition of water. They are insoluble in water and cause extremely slippery conditions when wet. Recent scientific information has determined that respirable particles of these materials, any nuisance dust may be a potential respiratory tract irritant. Use an approved respirator if necessary when conditions merit. See Section 8 for Exposure Controls and Personal Protection.

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 a in manufacturing, may aggravate existing skin conditions due to drying effect.

Potential Health Effects: Ingestion

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.

HMIS Ratings: Health: 1 Fire: 0 Reactivity: 0

Hazard Scale: 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe
*=Chronic Hazard

4. First Aid Measures

First Aid: Eyes

Immediately flush with plenty of water. Remove particles remaining under the eyelids. Get medical attention if irritation persists.

First Aid: Skin

Remove polyacrylate/polyacrylamide 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

Dusts may form an explosive mixture with air.

Fire and Explosive Properties

Flammability Classification:	None	
Flash Point	NA	Flash Point Method
Flammable Limits - Upper	NE	
Lower	NE	

Hazardous Combustion Products

On thermal decomposition, oxides of carbon and nitrogen.

Extinguishing Media

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

Fire Fighting Instructions

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

NFPA Ratings: Health: 1 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic Hazard

6. Accidental Release Measures

Containment Procedures

Keep traffic in the area of the spill to a minimum. Use caution after contact of product with water, as extremely slippery conditions will result. This is a non-hazardous waste suitable for disposal in an approved solid waste landfill. .

Clean up procedures

Sweep or vacuum material when possible and shovel into a waste container. Residuals maybe flushed with water into the drain for normal wastewater treatment.

Evacuation Procedures

None required.

Special Procedures

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

7. Handling and Storage

Handling

Handle as an eye and respiratory tract irritant.

Storage

Store in a dry, closed container.

8. Exposure Controls / Personal Protection

Exposure Guidelines

A: General Product Information

These products are not regulated as hazardous. They are insoluble in water and cause extremely slippery conditions when wet. Recent scientific information has determined that respirable particles of these materials are defined as inert or nuisance dusts by OSHA, under 29 CFR 1900.1000, Table Z-3. Although these products are not regulated as a hazardous material, any nuisance dust may be a potential respiratory tract irritant. Use an approved respirator if necessary when conditions merit.

B: Component Exposure Limits

No information available.

Engineering Controls

Provide local exhaust ventilation to maintain worker exposure to less than 5 mg/m³ over an eight-hour period.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipments: Eyes/Face

Wear safety glasses with side shields or goggles.

Personal Protective Equipments: Skin

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

Personal Protective Equipments: Respiratory

Use a NIOSH approved HEPA filter, or supplied air respirators when exposures reach the OSHA established PEL's.

Personal Protective Equipments: General

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

9. Physical and Chemical Properties

Appearance/Odor	White granular powder, no odor
pH	6.5 - 8.5 ~7 (1% in water)
Specific gravity (Bulk density)	0.6 – 0.9 g/ml
Vapor Pressure	< 15 mm Hg @ 20 °C (68 °F)
Vapor density	NE
Melting Point	> 390 °F
Freezing point	NA
Boiling point	NA
Solubility in water	Insoluble
Evaporation rate (%)	< 1.0

10. Stability and Reactivity

Chemical Stability

This material is chemically stable under normal and anticipated storage and handling conditions.

Chemical Stability: Conditions to Avoid

None

Incompatibility

None

Hazardous Decomposition Products

See combustion products.

Hazardous Polymerization

Will not occur.

11. Toxicological Information

Acute and Chronic Toxicity

General Product Information:

Acute oral toxicity:	LD ₅₀ rat Dose: > 5000 mg/kg (3% solution)
Vagina Mucous Membrane Irritation:	Rat No irritation
Skin irritation:	New Zealand Rabbit No irritation

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

Carcinogenicity:

A: General Product Information

This product is not listed as a carcinogen by IARC, NTP, or OSHA.

B: Component Carcinogenicity

No information is available.

12. Ecological Information

A: General Product Information

Composted product is non-toxic to aquatic organisms at predicted exposure levels.

B: Environmental Fate

Product is relatively inert in aerobic and anaerobic conditions. It is immobile in landfills and soil systems (>90% retention), with the mobile fraction showing biodegradability. It is also compatible with incineration, and will not affect the performance of wastewater treatment systems.

13. Disposal Considerations

US EPA Waste Number & Descriptions

A: General Product Information

These products are non-hazardous waste materials suitable for approved solid waste landfills.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for these products' components.

Disposal Instructions

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

14. Transport Information

International Transportation Regulations

This product is not transport regulated.

15. Regulatory Information

US Federal Regulations

A: General Product Information

This product is not federally regulated as a hazardous material. All components are listed on the TSCA inventory 940 CFR 700).

B: Clean Air Act

No information is available.

C: Component Analysis

No information available.

State Regulations

A: General Product Information

No information available.

B: Component Analysis – State

This product contains up to 50 ppm of residual acrylamide (CAS# 79-06-1), and following states recognize acrylamide as a carcinogen: CA (Prop 65), MA, MN, NJ, and PA.

Component Analysis – WHMIS IDL

No components are listed in the WHMIS IDL.

Component Analysis – Inventory

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

16. Other Information

Revision Information:

Revision Date: 2/9/2022

Supersedes Revision Dated 9/24/2009

Reason for Revision: Update MSDS to reflect name change from experimental product XP.08,008 to Rainbow Gel Beads. Revised and updated all sections

Key: N/A – Not Applicable

NE – Not Established

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SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT:

Product is not a transport hazard. Avoid extremes of temperature, wet, damp or humid conditions.

SPILLS AND DISPOSAL:

Granules can be swept up and used or disposed of. If material has been wet and a gel has formed it should be contained with sand or earth. Dispose at a landfill site.

FIRE/EXPLOSION HAZARD:

Although product is non-flammable as with many organic powders, flammable dust clouds may be formed. Avoid creating dust and keep away from sources of ignition. If involved in a fire use carbon dioxide, dry powder or foam in preference to water spray.

OTHER INFORMATION:

Spilled product can be very slippery if it becomes wet.

NOTICE: Information for this product is believed to be reliable, however buyer and user assume all risk of use, handling and storage whether in accordance with directions or not. Crystals, (WaterGelCrystals.com) and its agents give no guarantee or warranty of any kind express or implied concerning the use of this product and will not accept any responsibility whatsoever whether in contract or tort for any loss including consequential loss arising out of the use of this product or caused by this product.