

# Safety Data Sheet

## Superabsorbent Polymer Spheres



### Section 1

### Product Description

**Product Name:** Superabsorbent Polymer Spheres  
**Recommended Use:** Science education applications  
**Synonyms:** Polyacrylate, Polyacrylamide Salt  
**Distributor:** Carolina Biological Supply Company  
2700 York Road, Burlington, NC 27215  
1-800-227-1150  
**Chemical Information:** 800-227-1150 (8am-5pm (ET) M-F)  
**Chemtrec:** 800-424-9300 (Transportation Spill Response 24 hours)

### Section 2

### Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

#### GHS Classification:

**Other Safety Precautions:** No known OSHA hazards.  
Not a dangerous substance according to GHS classification criteria.

**Acute Toxicity Oral Contains** 100 % of the mixture consists of ingredient(s) of unknown toxicity  
**Acute Toxicity Dermal Contains** 100 % of the mixture consists of ingredient(s) of unknown toxicity  
**Acute Toxicity Inhalation Gas Contains** 100 % of the mixture consists of ingredient(s) of unknown toxicity  
**Acute Toxicity Inhalation Vapor Contains** 100 % of the mixture consists of ingredient(s) of unknown toxicity  
**Acute Toxicity Inhalation Dust/Mist Contains** 100 % of the mixture consists of ingredient(s) of unknown toxicity

### Section 3

### Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Acrylamide/Potassium Acrylate Copolymer, Crosslinked	31212-13-2	100

### Section 4

### First Aid Measures

#### Emergency and First Aid Procedures

**Inhalation:** In case of accident by inhalation: remove casualty to fresh air and keep at rest.  
**Eyes:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
**Skin Contact:** After contact with skin, wash immediately with plenty of water.  
**Ingestion:** If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

### Section 5

### Firefighting Procedures

**Extinguishing Media:** Use dry chemical, CO<sub>2</sub> or appropriate foam.  
**Fire Fighting Methods and Protection:** Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.  
**Fire and/or Explosion Hazards:** Causes extremely slippery conditions when wet.  
**Hazardous Combustion Products:** Carbon dioxide, Carbon monoxide, Potassium Oxide

### Section 6

### Spill or Leak Procedures

**Steps to Take in Case Material Is Released or Spilled:** No adverse health affects expected from the clean-up of spilled material. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS.

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Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Do not flush spill to drain. Contaminated surfaces will be extremely slippery.

## Section 7 Handling and Storage

**Handling:** Avoid creating and inhaling dust.  
**Storage:** Suitable for any general chemical storage.  
Store in a dry area  
Store in a tightly closed container  
**Storage Code:** Green - general chemical storage

## Section 8 Protection Information

Chemical Name	ACGIH		OSHA PEL	
	(TWA)	(STEL)	(TWA)	(STEL)
No data available	N/A	N/A	N/A	N/A

### Control Parameters

**Engineering Measures:** No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.

**Personal Protective Equipment (PPE):** Lab coat, apron, eye wash, safety shower.

**Respiratory Protection:** No respiratory protection required under normal conditions of use.

**Eye Protection:** Wear chemical splash goggles when handling this product. Have an eye wash station available.

**Skin Protection:** Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

**Gloves:** No information available

## Section 9 Physical Data

<b>Formula:</b> C6H8KNO3	<b>Vapor Pressure:</b> <15 mm Hg @ 20°C (68°F)
<b>Molecular Weight:</b> N/A	<b>Evaporation Rate (BuAc=1):</b> <1.0
<b>Appearance:</b> Colorless to White Crystals	<b>Vapor Density (Air=1):</b> N/A
<b>Odor:</b> None	<b>Specific Gravity:</b> 0.6 - 0.7 g/ml
<b>Odor Threshold:</b> No data available	<b>Solubility in Water:</b> Practically Insoluble
<b>pH:</b> 7.0 (1% in water)	<b>Log Pow (calculated):</b> No data available
<b>Melting Point:</b> > 199 C	<b>Autoignition Temperature:</b> No data available
<b>Boiling Point:</b> No data available	<b>Decomposition Temperature:</b> No data available
<b>Flash Point:</b> No data available	<b>Viscosity:</b> No data available
<b>Flammable Limits in Air:</b> N/A N/A	<b>Percent Volatile by Volume:</b> N/A

## Section 10 Reactivity Data

**Reactivity:** Not generally reactive under normal conditions.  
**Chemical Stability:** Stable under normal conditions.  
**Conditions to Avoid:** None known.  
**Hazardous Decomposition Products:** Potassium Oxide, Carbon dioxide, Carbon monoxide  
**Hazardous Polymerization:** Will not occur

## Section 11 Toxicity Data

**Symptoms (Acute):** No data available  
**Delayed Effects:** No data available

**Acute Toxicity:**  
**Chemical Name**

**CAS Number**

**Oral LD50**

**Dermal LD50**

**Inhalation LC50**

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Acrylamide/Potassium Acrylate Copolymer,  
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Dermal LD50 Rat  
> 5000 mg/kg

Oral LD50 Rat >  
2000 mg/kg

Not determined

## Carcinogenicity:

### Chemical Name

No data available

### CAS Number

31212-13-2

### IARC

Not listed

### NTP

Not listed

### OSHA

Not listed

## Chronic Effects:

### Mutagenicity:

No evidence of a mutagenic effect.

### Teratogenicity:

No evidence of a teratogenic effect (birth defect).

### Sensitization:

No evidence of a sensitization effect.

### Reproductive:

No evidence of negative reproductive effects.

### Target Organ Effects:

#### Acute:

No data available

#### Chronic:

No data available

## Section 12

## Ecological Data

### Overview:

This material is not expected to be harmful to the ecology.

### Mobility:

No data

### Persistence:

No data

### Bioaccumulation:

No data

### Degradability:

Does not biodegrade readily.

### Other Adverse Effects:

No data

### Chemical Name

N/A

### CAS Number

31212-13-2

### Eco Toxicity

## Section 13

## Disposal Information

### Disposal Methods:

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

### Waste Disposal Code(s):

This material is not considered to be a RCRA hazardous waste.

## Section 14

## Transport Information

### Ground - DOT Proper Shipping Name:

Not regulated for transport by DOT.

### Air - IATA Proper Shipping Name:

Not regulated for air transport by IATA.

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## Section 15

## Regulatory Information

**TSCA Status:** All components in this product are on the TSCA Inventory.

<b>Chemical Name</b>	<b>CAS Number</b>	<b>§ 313 Name</b>	<b>§ 304 RQ</b>	<b>CERCLA RQ</b>	<b>§ 302 TPQ</b>	<b>CAA 112(2) TQ</b>
No data available	31212-13-2	No	No	No	No	No

## Section 16

## Additional Information

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The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

### Glossary

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health