

Material Safety Data Sheet

Product Name: Aqua Cents®

Chemical Name: Potassium polyacrylate, Cross-linked

Product Use: Soil Additive for Water Retention

*** Section 1 - Chemical Product and Company Identification ***

Distributor Information

ACLS Management, Inc.
5213 E. Pine Ave.
Fresno, CA 93727

Phone: (24 hr. response) 559.453.0100

*** Section 2 - Hazards Identification ***

Emergency Overview

This product is a white granular, odorless powder that yields a gel-like material with the addition of water. The physical particles range in the 200 – 2000 micron size. The product is essentially insoluble in water and may cause extremely slippery conditions when wet.

Recent scientific information has determined that respirable Aqua Cents® particles are defined as Inert or nuisance dust by OSHA, under 29 CFR 1910.1000, Table Z-3. Although Aqua Cents® is 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. 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 as 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

Aqua Cents® particles are nuisance dust particles. The product particles are in the particle size range of 20 to 2,000 microns. If necessary, use the appropriate NIOSH approved dust mask.

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HMIS Ratings: Health: 1 Fire: 0 Reactivity: 0
Hazard Scale: 0= Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe 5 = Chronic hazard

*** Section 3 - Composition / Information on Ingredients ***

CAS #	Component	Quantity
25608-12-2	2-Propanoic acid, homopolymer, potassium salt	>97%

Component Information/Information on Non-Hazardous Components

The components of this product are not regulated as hazardous under 29 CFR and 49 CFR.

*** Section 4 - First Aid Measures ***

First Aid: Eyes

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

First Aid: Skin

Remove polyacrylate absorbent dust from skin using soap and water.

First Aid: Ingestion

If ingestion of a large amount does occur, seek medical attention.

First Aid: Inhalation

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

*** Section 5 - Fire Fighting Measures ***

General Fire Hazards

Dusts may form an explosive mixture in air.
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: 0 Reactivity: 0

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

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***** Section 6 - Accidental Release Measures *****

Containment Procedures

Keep traffic in the area of a spill to a minimum. Use caution after contact 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

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.

***** Section 7 - Handling and Storage *****

Handling Procedures

Handle as an eye and respiratory tract irritant

Storage Procedures

Store in a dry, closed container.

***** Section 8 - Exposure Controls / Personal Protection *****

Exposure Guidelines

A: General Product Information

These products are not regulated as a hazardous material. Their physical particles range in the 200 - 2,000 micron size. They are insoluble in water and causes extremely slippery conditions when wet. Recent scientific information has determined that respirable Aqua Cents® particles are defined as Inert or nuisance dust by OSHA, under 29 CFR 1910.10000, Table Z-3. Although Aqua Cents® is 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.

Storage Procedures

Store in a dry, closed container.

B: Component Exposure Limits

Respirable dust: Aqua Cents® is 3 mg/m³, inhalable dust 10 mg/m³.

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 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

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

Personal Protective Equipment: General

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

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*** Section 9 - Physical & Chemical Properties ***

Appearance: White, Granular Powder Physical State: Solid Vapor Pressure: <15 mm Hg@20°C (68°F) Boiling Point: Not Established Solubility (H2O): Essentially Insoluble Freezing Point: Not applicable Bulk Density: ~0.50-0.75 g/cc	Odor: None pH: ~6.5-8.5 Vapor Density: Not Established Melting Point: Not Established Particle Size: 800 - 2,000 microns Flash Point: Not Applicable
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*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

The product is stable.

Chemical Stability: Conditions to Avoid

None

Incompatibility

None

Hazardous Decomposition

See combustion products.

Hazardous Polymerization

Will not occur

*** Section 11 - Toxicological information ***

Acute and Chronic Toxicity

General Product information

Oral Toxicity: LD50 rat: >5000 mg/kg. Method: OECD No. 401-Limit test

Dermal Toxicity: LD50 rat: >2000mg/kg. Method: OECD No. 402-Limit test

Skin irritaiton: Rabbit: No irritation. Method OECD No. 404

Eye irritation: Rabbit: Very slight eye irritation - Particle effect. Method OECD No. 405

Sensitization: Guinea pig: No sensitization. Method: OECD No. 406

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

Repeated Dose Toxicity:

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.

Carcinogenicity

A. General Product Information

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

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Product Name: Aqua Cents®

B: Component Carcinogenicity
No information is available.

Mutagenicity
A similar polyacrylate absorbent had no effect in mutagenicity tests.

***** Section 12 - Ecological Information *****

Ecotoxicity

General Product Information

Biodegradability: Result: Not rapidly degradable under aerobic conditions.
Ciliate toxicity: *Tetrahymenda pyriformis*: EC50>6000 mg/l. 24 hr exposure.
Bacterial toxicity: *Ps. putida*: EC50-6000 mg/l. 24 hr
Fish toxicity: *Leuciscus idus*: LC50>5500 mg/l. 96 hr exposure-OECD No. 203
Danio rerio: LC50>4000 mg/l. 96 hr exposure-OECD No. 203
Other information: Data report in Section 11 and 12 were determined on a comparable product in the Laboratory for Toxicology and Ecology, Krefeld, Germany.

***** Section 13 - Disposal Considerations *****

US EPA Waste Number & Descriptions

A: General product Information

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

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

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

***** Section 14 - Transportation Information *****

International Transportation Regulations

This product is not a hazardous material and is not regulated by the United States Department of Transportation (D.O.T.).

IMDG

Not a dangerous good

ICAO/IATA

Not a dangerous good

***** Section 15 - Regulatory Information *****

US Federal Regulations

A: General product Information

This product is not federally regulated as a hazardous material.

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Product Name: Aqua Cents®

B: Clean Air Act

No information is available.

C: Component Analysis

No information is available.

State Regulations - General

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

Component Analysis - State

Noone of this product's components are on the state lists from CA, FL, MA, MN, NJ, or PA

Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
2-Propenoic acid, homopolymer, potassium salt	25608-12-2	Yes	DSL	Not regulated as a polymer.

* * * Section 16 - Other Information * * *

Other Information

The information provided in this material 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.

MSDS History

This is a new MSDS. Section's 2 & 3 reflect newly proposed August, 2004 ANSI Standards format recommendation for 2007 implementation.

Contact: Product Compliance Officer

Contact Phone: 559.453.0100

End of Aqua Cents®