

## Safety Data Sheet

Issue date: March 15, 2016

### Section 1 - Product and Company Identification

Product Name: ARCUS – LIQUID WASTE SOLIDIFIER

Distribution Location

Arcus Absorbents Inc.

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### Section 2 - Hazards Identification



Emergency Overview

Liquid Waste Solidifier is a white, off-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.

Potential Health Effects:

Eyes Dust may cause slight to moderate eye irritation

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

Ingestion Although not a likely route of entry, tests 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.

Inhalation Exposure to respirable dust may cause respiratory tract and lung irritation.

### Section 3 - Composition/Information on Ingredients

<u>INGREDIENTS</u>	<u>PERCENT</u>	<u>CAS #</u>
Sodium Polyacrylate Crosslinked	>99 %	9003-04-7
Post Treated - Trade Secret	0 %	Not Available

Component Information/Information on Non-Hazardous Components

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

### Section 4 - First Aid Measures

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

SKIN CONTACT Remove polyacrylate absorbent dust from skin using soap and water.

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

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

## Section 5 - Fire Fighting Measures

General Fire Hazards: No recognized fire hazards associated with the finished product.

Upper Flammable Limit (UFL): NE  
Lower Flammable Limit (LFL): NE  
Method Used: None  
Flash Point: None  
Flammability Classification: None

Hazardous Combustion Products: None known.

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.

## Section 6 - Accidental Release Measures

Containment Procedures: Sweep or vacuum material when possible and shovel into a waste container.

Clean-Up Procedures: Use caution after contact of product with water as extremely slippery conditions will result. After thorough cleaning flush away remaining traces with water.  
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: Handle as an eye and respiratory tract irritant.

Storage: Store in a dry, closed container.

## Section 8 - Exposure Controls/Personal Protection

Exposure Guidelines

A: General Product Information: This product is not regulated as a hazardous material.

B: Component Exposure Limits: No information is available.

Engineering Controls: Provide local exhaust ventilation to maintain worker exposure to less than 0.05 mg/m<sup>3</sup> over an eight-hour period.

EYE PROTECTION: Wear safety glasses with side shields or goggles.

PROTECTIVE GLOVES: Use impervious gloves when handling the product in the manufacturing environment.

RESPIRATORS: Wear a respirator with a high efficiency filter if particulate concentrations in the work area exceed 0.05 mg/m<sup>3</sup> over an eight-hour period.

OTHER PROTECTIVE EQUIPMENT (SPECIFY)

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

## Section 9 - Physical & Chemical Properties

Appearance:	White granular powder.	Odor:	None
Physical State:	Solid	pH:	5.5-6.5 (1% in water)
Vapor Pressure:	<10 mm Hg	Vapor Density:	NE
Boiling Point:	NE	Melting Point:	>390 F
Solubility (H <sub>2</sub> O):	Not soluble.	Specific Gravity:	0.4-0.7 g/ml
Evaporation rate:	<1.0		

## Section 10 - Stability & Reactivity

Chemical Stability: Stable.  
Incompatibility: None  
Hazardous Decomposition: None known.  
Hazardous Polymerization: Will not occur.

## Section 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

Sodium polyacrylate (9003-04-7)

LD50: Oral LD50 Rat: 40 gm/kg

### 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/m and 0.8 mg/m

Mutagenicity: Sodium polyacrylate had no effect in mutagenicity tests.

## Section 12 - Ecological Information

### Ecotoxicity

#### A: General Product Information

Composted polyacrylate absorbents are nontoxic to aquatic or terrestrial organisms at predicted exposure levels from current application rates.

#### B: Component Analysis - Ecotoxicity - Aquatic Toxicity

No information available,

### Environmental Fate

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.

## 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. Incineration is a recommended method of disposal.

## Section 14 - Transportation Information

This product is not transport regulated.

## Section 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.

D: Food & Drug Administration

CFR references for the FDA regulated components in this product are listed.

Sodium polyacrylate (9003-04-7)

Direct Food 173.73, 173.310

Indirect Food Additives: 175.105

### State Regulations

A: General Product Information

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

B: Component Analysis - State

None of this product's components are listed on the state lists from CA, FL, MA, MN, NJ, or PA.

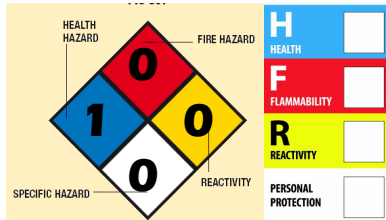
### Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

### Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Sodium polyacrylate	9003-04-7	Yes	DSL	No

## Section 16 – Other Information



4 – Extreme

3 – High

2 – Moderate

1 – Slight

0 – Insignificant

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To the best of our knowledge the information contained herein is accurate. However, Arcus Absorbents Inc. assumes no liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any product is the sole responsibility of the user. All products may present unknown hazards and should be used with caution. Although certain hazards are described herein we cannot guarantee that these are the only hazards which exist.