

Safety Data Sheet



Absorb! Super Absorbent Solidifier

Date: 2/13/2015
(Preparation or Last Revision)

Complies with 91/155/EEC, 1907/2006 (REACH) and amendments, OSHA's Hazard Communication Standard, 29 CFR 1910.1200; and the requirements of the U.S. Department of Labor Occupational Safety & Health Administration.

Regulatory Status:

This preparation is not classified as hazardous under U.S. OSHA 29 CFR 1910.1200; E.C. Directive 1999/45/EC; Canadian R.S. 1985, c. H-3; U.K. CHIP 2002 No. 1689; and/or U.N. GHS ST/SG/AC 10/30.

None of the components present in this preparation at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME: Absorb! Super Absorbent Solidifier
DESCRIPTION: Dry, white, granular, odorless polymer
SERIES NAME: N/A

A500, A1200, A1500, A2000, A2500, A3000, A14000, A14000WB, A1200N, A1500N, A2000N, A3000N

PRODUCT USE: Solidification of liquid medical waste

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SECTION 2: HAZARDS IDENTIFICATION

Emergency Overview

Sodium polyacrylate 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. An eight-hour exposure limit of 0.05 mg/m³ is recommended.

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, 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.

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

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

CAS #	Component	Percent
9003-04-7	Acrylic Acid Polymer, Sodium Salt	> 85

Component Information / Information on Non-Hazardous Components

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

SECTION 4: FIRST AID MEASURES

Primary routes of entry: Eye and skin contact; ingestion; inhalation & skin absorption.
Medical condition aggravated by exposure: Eyes/skin hypersensitivity

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

SKIN: 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.

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SECTION 5: FIRE-FIGHTING MEASURES

GENERAL INFORMATION: No recognized fire hazards associated with the finished product. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

FLASH POINT: NA

AUTOIGNITION TEMPERATURE: NA

HAZARD CLASSIFICATION: None

HEALTH: 1 **FLAMMABILITY:** 0 **REACTIVITY:** 0 **SPECIAL**

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

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear full protective clothing including self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

HAZARDOUS DECOMPOSITION PRODUCTS: Temperatures above 200°C. Thermal decomposition can give toxic products, organic derivatives, and carbon monoxide.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions Avoid contact with skin and eyes. Prohibit inhalation of dust.

Spill and Leak Procedures Sweep or vacuum material when possible and shovel into a waste container. Use caution after contact of product with water, as extremely slippery conditions will result. Residuals maybe 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.

Environmental Precautions Product becomes slippery when it absorbs water. Do not release into the environment. Do not let large amounts of product enter drains.

SECTION 7: HANDLING & STORAGE

HANDLING & STORAGE: Handle as an eye and respiratory tract irritant. Store in a dry, closed container.

OTHER PRECAUTIONS: None.

SECTION 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

No information available.

Engineering Controls

Provide local exhaust ventilation to maintain worker 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 when handling product in the manufacturing environment.

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 is particulate concentration in the work area exceeds 0.05 mg/m³ over an eight hour time period.

Personal Protective Equipment: General

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

SECTION 9: PHYSICAL/CHEMICAL CHARACTERISTICS

Appearance	White Granular Powder
Odor	None
Physical State	Solid
Specific Gravity (Bulk Density)	0.62 – 0.74 g/ml
Melting Point	> 330 °C
Solubility in Water	Swells in water
Auto-Ignition Temperature	> 400 °C
pH	6 - 8

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SECTION 10: STABILITY AND REACTIVITY

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

CONDITIONS TO AVOID: Store protected from moisture. Keep away from heat and sources of ignition.

INCOMPATIBILITY (MATERIAL TO AVOID): None

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Decomposition above 200°C. Thermal decomposition can give toxic byproducts, organic vapors, and carbon monoxide.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute and Chronic Toxicity

General Product Information:

Corrosiveness	None (rabbit) ¹
Acute oral toxicity:	LD ₅₀ rat > 1600 mg/kg, ¹ LD ₅₀ mouse > 3200 mg/kg, ¹
Skin irritation:	Not an irritant (human, rabbit) ¹
Eye irritation:	Not an irritant (rabbit) ¹
Vaginal Mucosal Irritation	Not an irritant (dog) ¹
Ames Mutagenicity Test	Ames test is negative, using Salmonella typhimurium (TA98, TA100, TA1535 and TA1537) and Escherichia coli (WP2uvrA) ¹
Skin Contact sensitization	Non-sensitizing (Guinea pig) ¹
Symptoms of Exposure	Dust may cause eye, nasal, or bronchial irritation

¹ = data of contracted outside laboratory

Carcinogenicity:

Component Carcinogenicity

No information is available.

Chronic Toxicity

Chronic inhalation exposure to rates 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.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

A: General Product Information

Composted polyacrylate absorbents are non-toxic to aquatic or terrestrial organisms at predicted exposure levels.

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.

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SECTION 14: TRANSPORTATION INFORMATION

International Transportation Regulations:

This product is not a hazardous material and is not regulated by the Department of Transportation.

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 available.

D: Food and Drug Administration

No information available.

Component Analysis – Inventories

TSCA (USA)

Conforms, not listed

EINECS (EC)

Conforms

ENCS (Japan)

Conforms

CEPA (Canada)

All substances listed under the DSL or not required

WHMIS (Canada)

Not a controlled product under this directive

SECTION 16: OTHER INFORMATION

DISCLAIMER: The information provided in this Safety Data Sheet has been compiled, in good faith, from our experience and data presented in various technical publications. A SDS for a substance is not primarily intended for use by the general consumer, focusing instead on the hazards of working with the material in an occupational setting. It is believed to be accurate and represents the best information currently available. HOWEVER, NORTHFIELD MEDICAL MANUFACTURING MAKES NO WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER TYPE, EXPRESSED OR IMPLIED, WITH RESPECT TO PRODUCTS DESCRIBED OR DATA OR INFORMATION PROVIDED, AND ASSUMES NO LIABILITY RESULTING FROM THE USE OF SUCH PRODUCTS, DATA OR INFORMATION. Users should make their own investigations to determine the suitability of the information for their particular purposes, and the user assumes all risk arising from their use of the material. The user is required to comply with all laws and regulations relating to the purchase, use, storage and disposal of the material, and must be familiar with and follow generally accepted safe handling procedures. In no event shall Northfield Medical Manufacturing be liable for any claims, losses, or damages of any individual or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Northfield Medical Manufacturing has been advised of the possibility of such damages. We reserve the right to update SDS sheets from time to time as new information becomes available. It is the responsibility of the user to verify that they have the latest revision available.

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