

Material Safety Data Sheet

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

Product(s) Name: Water-Keep Medium

Water-Keep Medium : is an off-white granular material

Chemical Name: Acrylamide/Potassium Acrylate Copolymer, Cross-linked

Company Information

Novo-Tech Inc 55 Lake Point Circle Taylorsville, NC 28681	
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***** Section 2 – Hazards Identification *****

Emergency Overview

This product contains off-white granular, odorless polymer that yields a gel-like material with the addition of water. The physical particles range in the 800 – 2000 micron size. The product is insoluble in water and may cause extremely slippery conditions when wet.

Recent scientific information has determined that respirable Water-Keep particles are defined as inert or nuisance dust by OSHA, under 29 CFR 1900.1000, Table Z-3. Although Water-Keep 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

Water-Keep particles are nuisance dust particles. The particles are in the particle size range of 800 to 2000 microns. If necessary, use the appropriate NIOSH approved dust mask.

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

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

Material Safety Data Sheet

Water-Keep Medium

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

CAS #	Component
31212-13-2	2-Propenoic acid, potassium salt, polymer with 2-propenamide

Component Information/Information on Non-Hazardous components

The components of this product are not regulated as hazardous under 29CFR and 40 CFR. All components are listed in TSCA CFR 40 700.

*** Section 4 – First Aid Measure ***

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

Material Safety Data Sheet

Water-Keep Medium

*** 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 waster 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 disposable 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

This product is not regulated as a hazardous material. The physical particles range in the 800 – 2000 micron size. They are insoluble in water and cause extremely slippery conditions when wet.

Recent scientific information has determined that respirable Water-Keep particles are defined as inert or nuisance dust by OSHA, under 29 CFR 1900.1000, Table Z-3. Although Water-Keep 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.

B: Component Exposure Limits

Respirable dust: TLV is 3mg/ml³, 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.

Material Safety Data Sheet

Water-Keep Medium

*** Section 9 – Physical & Chemical Properties ***

Appearance: Water-Keep is off-white in color	Odor: None
Physical State: Solid	PH: 6.75 (1 g/l in water)
Vapor Pressure: <15 mm Hg@20 degrees C (68 degrees F)	Vapor Density: Not established
Boiling Point: Not Established	Melting Point: >199 degrees C (390 degrees F)
Solubility (H2O): Essentially insoluble	Specific Gravity: ~0.7 g/cm
Freezing Point: Not applicable	Particle Size: 100 – 300 microns
Bulk Density: ~ 660 kg/m	Flash Point: Not applicable

*** 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 (3% solution). Method: OECD No. 401 Limit test

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

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

Eye irritation: Rabbit: No irritation. 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.

Carcinogenicity

A: General Product Information

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

B: Component Carcinogenicity

No information is available.

Material Safety Data Sheet

Water-Keep Medium

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>8000 mg/l. 24 hr

Fish toxicity: Leuciscus idus: LC50~3600 mg/l. 96 hr exposure-OECD No. 203

Brachydanio rerio: LC50~5000 mg/l. 96 hr exposure-OECD No. 203

*** 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 regulated as a hazardous material by the United States (D. O. T.).

*** 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.

State Regulations

Component Analysis – State

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

Material Safety Data Sheet

Water-Keep Medium

Component Analysis – WHMIS IDL

No components are listed in the WHMIS IDL.

WHMIS Classification – Not Controlled

The MSDS has been prepared to meet the requirements of the Canadian Controlled Products Regulation and must follow the class.

Component Analysis – Inventory

Component	CAS 3	TSCA	CAN	EEC
2-Propenoic acid, potassium salt, polymer with 2-propenamide	31212-13-2	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 proposed August 2004 ANSI Standards format recommendations for 2007 implementation.

Contact: Product Compliance Officer

Contact Phone: (828) 228-6176

This is the end of MSDS