

**MATERIAL SAFETY DATA SHEET***Nutrimoist<sup>®</sup> Crystals***Section 1 – Chemical Product and Company Identification****Manufacturer Information:**

American Soil Technologies, Inc.  
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Telephone: (818) 899-4686  
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**Section 2 – Composition / Information on Ingredients**

CAS #	Component
31212-13-2	2-Propanoic 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 29 CFR and 49 CFR.

**Section 3 – Hazards Information****Emergency Overview**

This material 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. Recent scientific information has determined that respirable Nutrimoist Crystal particles are defined as inert or nuisance dust by OSHA under 29 CFR 1900.1000, Table Z-3. Although Nutrimoist Crystal is not regulated as a hazardous material, any dust may be a potential respiratory tract irritant. Use an approved respirator if necessary when conditions merit.

**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**

The manufacturer recommends a maximum 8-hour exposure limit of 5mg/m<sup>3</sup>. Nuisance dusts of this product may cause irritation of the nose, throat and respiratory tract.

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

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

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### Section 4 – First Aid Measures

**First Aid: Eyes**

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

**First Aid: Skin**

Remove Nutrimoist Crystal 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):** None Established

**Lower Flammable Limit (LFL):** None 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

### Section 6 – Accidental Release Measures

**Containment Procedures**

Keep any 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.

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### 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. However, the manufacturer recognizes the potential that nuisance dust may cause respiratory tract irritation and recommends an eight-hour exposure limit of 5mg/m<sup>3</sup>. It is also recommended that an approved respirator be used to avoid nuisance dust.

##### B: Component Exposure Limits

No information is available.

#### Engineering Controls

Provide local exhaust ventilation to maintain worker exposure to less than 5 mg/m<sup>3</sup> over an eight-hour period.

#### PERSONAL PROTECTIVE EQUIPMENT

##### Personal Protective Equipment: Eye/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 PELs.

##### Personal Protective Equipment: General

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

### Section 9 – Physical & Chemical Properties

**Appearance:** White powder

**Physical State:** Solid

**Vapor Pressure:** <15 mm Hg@20°C (68°F)

**Boiling Point:** Not Established

**Solubility (H<sub>2</sub>O):** Essentially insoluble

**Particle Size:** 200 – 4000 microns

**Odor:** None

**pH:** 6.75 (1g/l in water)

**Vapor Density:** Not Established

**Melting Point:** >199°C (390°F)

**Specific Gravity:** -0.7 g/cm

**Bulk Density:** ~660 kg/m

### Section 10 – Chemical Stability & Reactivity Information

#### Chemical Stability

This product is stable.

#### Chemical Stability: Conditions to Avoid

None

#### Incompatibility

None

#### Hazardous Decomposition

See combustion products.

#### Hazardous Polymerization

Will not occur.

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### Section 11 – Toxicological Information

#### Acute and Chronic Toxicity

##### A: General Product Information

This product is not regulated as a hazardous material. However, the manufacturer recognizes that nuisance dust may cause respiratory tract irritation and recommends an eight-hour exposure limit of 5mg/mm<sup>3</sup>. It is also recommended that an approved respirator be used to avoid nuisance dust.

##### B: Acute Toxicity-LD50/LC50

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.

#### Chronic Toxicity

No information is available.

#### Mutagenicity

Not a mutagenic *in vitro* tests: OECD No. 471 and OECD NO. 476.

### Section 12 – Ecological Information

#### Ecotoxicity

##### A: General Product Information

Ciliate toxicity: *Tetrahymena pyriformia*: 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 rario*: LC50~5000 mg/l. 96 hr exposure-OECD No. 203

Other information: Data report in Section 11 and 12 were determined in the Laboratory for Toxicology and Ecology, STOCKHAUSEN GmbH & Co. KG, Krefeld, Germany.

##### 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 this product will not affect the performance of wastewater treatment systems.

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## 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 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.

### 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 listed in Section 2 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, potassium salt, polymer with 2-propenamide	31212-13-2	Yes	DSL	Not regulated as a polymer

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### 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

**Contact:** Product Compliance Officer

**Contact Phone:** (818) 899-4686