

Precision Recycling Industries LLC

## Material Safety Data Sheet

For Chemical Emergency, Spill, Leak, Fire, Exposure or Accident,  
CALL INFOTRAC - Day or Night 1-800-535-5053  
Outside the United States call collect +01-352-323-3500

Material Name: Expanded Perlite

### Section 1- Chemical Product and Company Identification

Product Name: PRI-LITE  
Chemical Name: Sodium Potassium Aluminum Silicates  
Supplier Information  
Precision Recycling Industries LLC  
19701 Bethel Church Rd  
Cornelius, NC 28031

Trade Name: Tech-Flo

### Section 2- Composition and Information on ingredients

Component	CAS	EINECS	OSHA PEL(mg/M <sub>3</sub> )	ACGIH TLV(mg/M <sub>3</sub> )	Percent
Expanded Perlite	93763-70-3	NE	15	10	> 98
Crystalline Silica	14808-60-7	238-878-4	10	0.1 (R)	<1

### Section 3 - Hazards Identification

#### Emergency Overview

APPEARANCE AND ODOR: Odorless white powder.

Inhalation of excessive amounts of dust created when pouring, transferring, or other mechanical activities with this product may cause temporary upper respiratory irritation and/or congestion- remove affected individuals to fresh air. This product may contain very small amounts of Crystalline Silica (Quartz), see Section 8.

Skin irritation may be treated by gently washing affected area with soap and warm water.

Eye irritation may be treated by flushing eyes with large amounts of water. If irritation persists, contact a physician.

Prolonged contact with dust from this product may cause Dermatitis.

In the event of fire, use normal fire fighting procedures to prevent inhalation of smoke and gases.

HMIS Rating: Health: 1, Fire: 0, Reactivity 0, Other: 0: Personal Protection: E-Dust Respirator  
WHMIS Class: Tech-Flo perlite filter aids are not WHMIS controlled products.

#### Potential Health Effects

##### Summary

Breathing dust from this product may cause a scratchy throat, congestion, and slight coughing.  
Getting dust on the skin, or in the eyes may cause itching, rash, or redness.

Breathing large amounts of dust from this product may lead to chronic health effects as discussed in Section 11 of this Material Safety Data Sheet.

#### Inhalation

Canada Workplace Hazardous Materials Information System (WHMIS)  
 WHMIS Classification: D2B-Irritant

Section 16 - Other Information

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

NFPA	HMIS	Rating
1 -Health	1 -Health	0 -Least
0 -Flammability	0 -Flammability	1 -Minor
0 -Instability	0 -Physical Hazard	2 -Moderate
0 -Hazards	E Personal Protection	3 -High
		4 -Severe

Prepared by Technical Services, Fruita, CO

Key/Legend:

EPA = Environmental Protection Agency; TSCA = Toxic Substances Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; NFPA = National Fire Protection Association; HMIS = Hazardous Material Identification System; CERCLA = Comprehensive Environmental Response, Compensation and Liability Act; SARA = Superfund Amendments and Reauthorization Act; DSL = Canadian Domestic Substance List; EINECS = European Inventory of New and Existing Chemical Substances; WHMIS = Workplace Hazardous Materials Information System; CAA = Clean Air Act; CHPA = Canadian Hazardous Product Act; IDL = Canadian Hazardous Disclosure List

Revision Summary:

Date	Revision
1 Dec 2011	Added 24 hour response phone number
12 Nov 2012	Revised company logo to indicate a Johns Manville company. Added Oral dose information. Added reference to state hazardous materials list

As of the date of preparation of this document, the foregoing information is believed to be accurate and is provided in good faith to comply with applicable federal and state law(s). However, no warranty or representation with respect to such information is intended or given.

**IMPORTANT SAFETY NOTICE:** The information in this MSDS relates only to the specific material described herein and does not relate to use in combination with any other material or substance or in any process. Because of the use of this information and the conditions of use of this product are not within the control of Precision Recycling Industries LLC, it is the user's obligation to determine the conditions of safe use of this product. Users of this product should study this MSDS and become aware of the product hazards and safety information before using this product. Users should also notify their employees, agents, and contractors regarding information contained in this MSDS and any product hazards and safety information in order to provide for safe use of this product.

Irritation of the upper respiratory tract (scratchy throat), coughing, and congestion may occur in extreme exposures.

**Skin**

Temporary irritation (itching) or redness may occur.

**Absorption**

Not applicable

**Ingestion**

This product is not intended to be ingested or eaten under normal conditions of use. If ingested, it may cause temporary irritation to the gastrointestinal (GI) tract, especially the stomach.

**Eyes**

Temporary irritation (itching) or redness may occur.

**Target Organs**

Upper respiratory passages, skin, and eyes.

**Primary Routes of Entry (Exposure)**

Inhalation (breathing dust), skin, and eye contact.

**Medical Conditions Aggravated by Exposure**

Pre-existing chronic respiratory, skin, or eye diseases or conditions may be aggravated by exposure to this product

**Section 4 — First Aid Measures**

**First Aid: Inhalation**

Remove to fresh air. Drink water to clear throat, and blow nose to remove dust.

**First Aid: Skin**

Wash gently with soap and warm water to remove dust. Wash hands before eating or using the restroom.

**First Aid: Ingestion**

Product is not intended to be ingested or eaten. If this product is ingested, irritation of the gastrointestinal (GI) tract may occur, and should be treated symptomatically. Rinse mouth with water to remove material, and drink plenty of water to help reduce the irritation. No chronic effects are expected following ingestion.

**First Aid: Eyes**

Do not rub or scratch your eyes. Dust particles may scratch the eye. Flush eyes with large amounts of water for 5-15 minutes. If irritation persists, contact a medical professional.

**First Aid: Notes to Physician**

This product is a mechanical irritant, and is not expected to produce any chronic health effects from acute exposures. Treatment should be directed toward removing the source of irritation with symptomatic treatment as necessary.

**Section 5 — Fire Fighting Measures**

**Flash Point:** Not applicable  
**Upper Flammable Limit (UFL):** Not applicable  
**Auto Ignition:** Not applicable  
**Rate of Burning:** Not applicable

**Method Used:** Not applicable  
**Lower Flammable Limit (LFL):** Not applicable  
**Flammability Classification:** Non combustible

**General Fire Hazard**

There is no potential for fire or explosion.

**Extinguishing Media**

Use any extinguishing media appropriate for the surrounding fires

**Fire Fighting Equipment/Instructions**

No special procedures are expected to be necessary for this product. Normal fire fighting procedures should be followed to avoid inhalation of smoke and gases produced by other materials.

**Section 6 — Accidental Release Measures**

**Containment Procedures**

Vacuum dusts. If sweeping is necessary, use a dust suppressant such as water. Do not dry sweep dust accumulation or use compressed air for clean-up. These procedures will help to minimize potential exposures.

**Clean-Up Procedures**

Wastes are not hazardous as defined by the RCRA (40 CFR 261). Comply with state and local regulations for disposal of these products. If you are unsure of the regulations, contact your local Public Health Department, or the local office of the EPA.

## Section 7 — Handling and Storage

### **Handling Procedures**

Use protective equipment as described in Section 8 of this material safety data sheet when handling uncontained material. Good housekeeping practices should be used to prevent generation and accumulation of dusts. After handling product, wash face and hands before eating, drinking, or smoking.

### **Storage Procedures**

Warehouse storage should be in accordance with package directions, if any. Material should be kept dry, and protected from the elements. Do not store near Hydrofluoric Acid.

## Section 8 — Exposure Control and Personal Protection

### **General Product Information**

This product may contain trace amounts of crystalline silica as a natural contaminant in the raw materials. However, standard industrial hygiene air monitoring surveys conducted under normal and test (worst-case) situations have not detected any reportable crystalline silica in the respirable dust in the occupational environment.

### **Personal Protective Equipment: Eyes/Face**

Safety glasses with side shields are recommended to keep product out of the eyes.

### **Personal Protective Equipment: Skin**

Leather or cotton gloves should be worn to prevent skin contact and irritation. Barrier creams may also be used to reduce skin contact and irritation.

### **Personal Protective Equipment: Respiratory**

A respirator should be used if ventilation is unavailable, or is inadequate for keeping dust levels below the applicable exposure limits. Operations such as pouring, transferring, or blowing may generate airborne dust concentrations requiring a higher level of respiratory protection. In those cases, use a NIOSH-certified disposable or reusable particulate respirator with an efficiency rating of N95 or higher (under 42 CFR 84) when working with this product. For exposures up to five times the established exposure limits use a quarter-mask respirator, rated N95 or higher; and for exposures up to ten times the established exposure limits use a half-mask respirator (e.g., MSA's DM-11, Racal's Delta N95, 3M's 8210), rated N95 or higher. For exposures up to 50 times the established exposure limits use a full-face respirator, rated N99 or higher.

### **Ventilation**

In fixed manufacturing settings, local exhaust ventilation should be provided at areas of pouring or packaging remove airborne dust. General dilution ventilation should be provided as necessary to keep airborne dust below the applicable exposure limits and guidelines. The need for ventilation systems should be evaluated by a professional industrial hygienist, while the design of specific ventilation systems should be conducted by a professional engineer.

### **Personal Protective Equipment: General**

Loose-fitting, long-sleeved clothing should be worn to protect the skin from irritation. Exposed skin areas should be washed with soap and warm water after handling.

## Section 9 — Physical & Chemical Properties

**Appearance:** White powder

<b>Odor:</b>	Odorless	<b>pH:</b>	9.0—9.3
<b>Physical State:</b>	Solid	<b>Vapor Density:</b>	Not applicable
<b>Vapor Pressure:</b>	Not applicable	<b>Melting Point:</b>	1200-1500°C
<b>Boiling Point:</b>	Not applicable	<b>Specific Gravity:</b>	2.3
<b>Solubility (H2O):</b>	Nil	<b>Freezing Point:</b>	Not applicable
<b>Viscosity:</b>	Not applicable	<b>Evaporation Rate:</b>	Not applicable
<b>VOC:</b>	Not applicable	<b>Percent Volatile:</b>	0

## Section 10 — Chemical Stability & Reactivity Information

### **Chemical Stability**

This is a stable material. This product is not reactive.

### **Hazardous Decomposition**

None.

### **Hazardous Polymerization**

Will not occur.

## Section 11 — Toxicological Information

### Acute Toxicity

#### A: General Product Information

The primary acute health effects of this product include mechanical irritation of the skin and eyes and skin dryness as a result of contact with dust.

#### B: Component Analysis - LD50/LC50

Oral LD50 Mouse: 12960 mg/kg

### Carcinogenicity

#### A: General Product Information

OSHA, NTP, IARC, and ACGIH have not classified this product in its entirety as a carcinogen.

#### B: Component Carcinogenicity

##### Perlite (93763-70-3)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

## Section 12 — Ecological Information

### Ecotoxicity

#### A: General Product Information

Not expected to be dangerous to the environment.

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

No ecotoxicity data are available for this product's components.

## Section 13 — Disposal Considerations

### US EPA Waste Number & Descriptions

#### A: General Product Information

This product, as supplied, is not regulated as a hazardous waste by the EPA under RCRA regulations. Comply with state and local regulations for disposal. If you are unsure of the regulations, contact your local Public Health Department, or the local office of the EPA.

#### B: Component Waste Numbers

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

### Disposal Instructions

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

## Section 14 — Transport Information

US DOT Information: This product is not classified a hazardous material for transport.

DOT Proper Shipping Name: Perlite Other Than Crude (Expanded)

DOT Label: None Required

Canadian Shipping Description: Perlite Other Than Crude (Expanded)

IMO: Not regulated as dangerous goods according to IMDG Code

ICAO: Not regulated as dangerous goods according to ICAO Technical Instructions

## Section 15 — Regulatory Information

### US Federal Regulations

#### A: General Product Information

Listed as "Particulates Not Otherwise Regulated".

#### B: Component Analysis

None of this product's components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

### State Regulations

#### A: General Product Information

No information available for the product.

### Other Regulatory Information

#### A: General Product Information

Expanded Perlite appears the hazardous substance list in MA, MN, NJ, and PA.

#### B: TSCA Status

No information available for the product.

### International Regulations