



**Trade Name:** GoodTemp

## **Section 1— Chemical Product and Company Identification**

Material Description: Bonded Expanded Perlite Pipe and Block Thermal Insulation  
Product Use: Thermal Insulation for Piping and Equipment

### **Manufacturer Information**

Howred Corporation  
7887 San Felipe, Suite 122  
Houston, TX 77063  
Information Phone: 713-781-3980  
Emergency Phone: 1-800-535-5053 (North America) or +01-352-323-3500 (International)

## **Section 2 — Hazards Identification**

GHS classification in accordance with 29 CFR 1910.1200 (OSHA HCS 2012) and the Hazardous Products Regulations (WHMIS 2015)

Not a hazardous mixture.

### Hazard Statements

H320, H316, H335 Irritating to eyes, respiratory system and skin



### Precaution Statements

P261 Avoid breathing dust  
P280 Wash thoroughly after handling  
P313 Get medical advise for eye or skin irritation

## **Emergency Overview**

This product is an article and under normal conditions of use, this product does not pose any unusual physical hazard or health risk. Altering the material by cutting, sawing, or abrading will release material that may increase the risk of personnel exposure.

Inhalation of dust created when fabricating, cutting, or other mechanical alterations of the product may cause temporary upper respiratory irritation and/or congestion, remove affected individuals to fresh air.

Rubber gloves are not normally required but may be worn to reduce skin irritation. Skin irritation may be treated by gently washing affected area with soap and warm water.

Safely glasses and/ or goggles should be worn to reduce the possibility of eye irritation. Eye irritation may be treated by flushing eyes with large amounts of water. If irritation persists, contact a physician. A NIOSH or MSA approved respirator may be used to reduce nuisance dust. 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.  
WHMIS Class: Goodtemp is not a WHMIS controlled product.

## Potential Health Effects

### Summary

- Breathing dust from this product may cause a scratchy throat, congestion, and slight coughing.
- Getting dust or fibers on the skin, or in the eyes may cause itching, rash, or redness.
- Breathing large amounts of dust or fibers from this product may lead to chronic health effects as discussed in Section 11.

### Inhalation

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 upper respiratory and lung diseases such as, but not limited to, bronchitis, emphysema and asthma.

OSHA classifies perlite as "particulate not otherwise regulated" (PNOR) and concludes perlite is a non-toxic when airborne total particulate concentrations are maintained at level so 15 mg/m<sup>3</sup> or below and when its quartz content is limited to a level less than 1% crystalline silica

Perlite has not been listed as a carcinogen by NTP or OSHA.

## **Section 3 — Composition/Information on Ingredients**

Component	CAS#	EINECS#	Percent
Expanded Perlite	93763-70-3		50 - 95
Sodium Silicate	1344-09-8	215-687-4	1 – 40
Clay	1322-58-7	310-194-1	1 – 50
Iron Oxide	1309-37-1	215-168-2	0 – 3
Continuous Filament Glass Fiber	65997-17-3	266-046-0	0 – 3
Dimethylpolysiloxanes	94363-18-5	256-344-9	0 - 10

## **Section 4 — First-Aid Measure**

### **Inhalation**

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

### **Skin**

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

### **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 fibers, and drink plenty of water to help reduce the irritation. No chronic effects are expected following ingestion.

### **Eyes**

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

### **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**

<b>Flash Point:</b>	NA	<b>Method Used:</b>	NA
<b>Upper Flammable Limit (UFL):</b>	NA	<b>Lower Flammable Limit (LFL):</b>	NA
<b>Auto Ignition:</b>	NA	<b>Flammability Classification:</b>	Noncombustible
<b>Rate of Burning:</b>	NA		

NA= Not Applicable

### **General Fire Hazard**

There is no potential for fire or explosion.

### **Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### **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**

Spilled material should not be walked on. Do not dry sweep dust accumulation or use compressed air for clean-up. These procedures will help to minimize potential exposures.

### **Clean-Up Procedures**

Pick up large pieces. Vacuum dusts. If sweeping is necessary, use a dust suppressant such as water. Wastes are not hazardous as defined by 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**

Store in a dry area. Repair any broken or damaged containers. Material should be kept dry, and protected from the weather.

## **Section 8 — Exposure Control and Personal Protection**

### **Expanded Perlite**

OSHA – Respirable fraction: 5mg/m<sup>3</sup> TWA (Respirable) total dust:15 mg/m<sup>3</sup>

ACGIH – 10mg/m<sup>3</sup> TWA

This is the value for particulate matter containing no Asbestos and <1% crystalline silica and are related to PNOC, Particles Not Otherwise Classified.

### **Sodium Silicate**

OSHA – Respirable fraction; 5 mg/m<sup>3</sup> TWA total dust; 15 mg/m<sup>3</sup> TWA

ACGIH – Inhalable particulate: 10 mg/m<sup>3</sup> TWA Respirable particulate: 3 mg/m<sup>3</sup> TWA

Related to Particles Not Otherwise Regulated.

### **Iron Oxide**

OSHA – 10 mg/m<sup>3</sup> TWA

ACGIH – 5 mg/m<sup>3</sup> TWA

### **Continuous filament glass fiber**

OSHA – 5 mg/m<sup>3</sup> TWA respirable fraction total dust: 15 mg/m<sup>3</sup> TWA

ACGIH – 1 f/cc TWA for fibers longer than 5 um with a diameter less than 3 um; 5 mg/m<sup>3</sup> TWA respirable particulate; (Listed under 'Synthetic vitreous fibers')

### **Eyes/Face**

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

### **Skin**

Rubber, 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.

### **Respiratory**

A respirator should be used if ventilation is unavailable, or is inadequate for keeping dust and fiber levels below the applicable exposure limits. In those cases, use a NIOSH-certified disposable or reusable particulate respirator with an efficiency rating of N95 or higher (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. Operations such as sawing, abrasion, tear out, and spraying may generate airborne fiber concentrations requiring a higher level of respiratory protection.

## Ventilation

In fixed manufacturing settings, local exhaust ventilation should be provided at areas of cutting to remove airborne dust and fibers. General dilution ventilation should be provided as necessary to keep airborne dust and fibers 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.

## 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:** Semi-circle or block insulation with pink coloring throughout as a visual marker to indicate this is an asbestos free product. NA = Not applicable

<b>Odor:</b>	Odorless	<b>pH:</b>	NA
<b>Physical State:</b>	Solid	<b>Vapor Density:</b>	NA
<b>Vapor Pressure:</b>	NA	<b>Melting Point:</b>	>1800°F
<b>Boiling Point:</b>	NA	<b>Specific Gravity:</b>	<1
<b>Solubility (H2O):</b>	Nil	<b>Freezing Point:</b>	NA
<b>Viscosity:</b>	NA	<b>Evaporation Rate:</b>	NA
<b>VOC:</b>	0, None	<b>Percent Volatile:</b>	0, None

## Section 10 — Chemical Stability & Reactivity Information

### Chemical Stability

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

### Conditions to Avoid

Avoid contact with Hydrofluoric Acid

### Hazardous Decomposition

None identified

### Hazardous Polymerization

Will not occur, non-reactive

## 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 and fibers.

#### B: Component Analysis - LD50/LC50 for Chemicals that May be Released During Use

Only water vapor is released during use.

No LD50/LC50's are available for this product's components.

### Carcinogenicity

#### A: General Product Information

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA, NTP, IARC, or ACGIH.

## **B: Component Carcinogenicity**

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

ACGIH: A4 - Not Classifiable as a Human Carcinogen

### **Sodium Silicate**

IARC – Group 3: Not classifiable as to its carcinogenicity to humans.

Not list by IARC, NTP, or OSHA as a carcinogen.

### **Continuous filament glass fiber**

ACGIH - A4 – Not Classified as a Human Carcinogen (related to filament glass fibers)

IARC - Monograph 43, 1988, related to glass filaments, Group 3, not classified to its carcinogenicity to humans. No chronic health effects are known to be associated with exposure to continuous filament fiber glass. Results from epidemiological studies have not shown any increases in respiratory disease or cancer. . Because of the large diameter of continuous filament fibers, these fibers are not considered respirable.

### **Ozone- Depletion**

Regulation: 40 CFR Protection of Environment; Part 82

Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B)

## **Section 12 — Ecological Information**

### **Ecotoxicity**

#### **A: General Product Information**

No data available for this product. This material is not expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

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

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

## **Section 13 — Disposal Considerations**

### **A: General Product Information**

This product, as supplied, is not regulated as a hazardous waste by 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 Label: None Required

Canadian Shipping Description: None

UJN/NA#: None

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**

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCOMI Intermediate or Final VOC's (40 CFR 60.489).

#### **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**

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65). This product does not require a warning under the California Safe Drinking Water and Toxic Enforcement Act (Proposition 65).

### **Other Regulatory Information**

#### **A: General Product Information**

No information available for the product.

#### **B: TSCA Status**

All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

## **Section 16 — Other Information**

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

<u>NFPA</u>	<u>HMIS</u>	<u>Rating Scale</u>
1 – Health	1 – Health	0 Least
0 – Flammability	0 – Flammability	1 Slight
0 – Reactivity	0 – Physical Hazard	2 Moderate
0 – Other Hazard	E -- Personal Protection	3 High
		4 Severe

### **Key/Legend:**

EPA = Environmental Protection Agency; TSCA = Toxic Substance 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:**

This is a revised MSDS which replaces the previous document dated 21-January-2014. There were only minor wording revisions.

**IMPORTANT SAFETY NOTICE:** The information in this Safety Data Sheet (SDS) 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 Howred Corporation, it is the users obligation to determine the conditions of safe use of this product. Users of this product should study this SDS 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 SDS and any product hazards and safety information in order to provide for safe use of this product.

Prepared by TSRK Enterprises Inc. for Howred Corporation

END of SDS