

**TPS EP-12™ EXPANDED PERLITE INSULATION****Section 1 - Product and Company Identification****1.1 Product Identifier****Trade Name:****TPS EP-12™ EXPANDED PERLITE INSULATION****1.2 Relevant Use**Thermal Insulation for Piping, Tanks, Vessels and Equipment  
Molded into cylindrical pipe covering and flat blocks**1.3 Details of Supplier:**United Perlite Corporation  
Barangay Macabling, Santa Rosa, Laguna, 4026 Philippines  
225 D. Tuazon, Quezon City  
Philippines  
Tel. (+632) 7401053, 7401055, 7401047  
Fax: (+632) 7401048  
Website: [www.uniteperlite.net](http://www.uniteperlite.net)**1.4 Importer of Record:**Thermal Pipe Shields  
29020 40<sup>th</sup> Ave NW  
Stanwood, WA  
United States of America  
Phone: +1.833.422.5745  
Website: [www.thermalpipeshields.com](http://www.thermalpipeshields.com)**Emergency Phone Number:**

National Poison Control Center (PGH): (02) 524-1078, or (02) 554-8400 loc. 3276, (0632) 7401053

**Section 2 - Hazards Identification**

*This product is an "article" as defined in the OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200) and is outside the scope of GHS. Under normal conditions of use, it is not expected to create any unusual emergency hazards. However, cutting, sawing, or abrading may increase the risk of personnel exposure. Nonetheless, the main component, perlite, is not classified as hazardous material.*

**2.1 Hazard Classification**

The main component, perlite, is not classified as hazardous material. Classification criteria of GHS for hazardous material are not met.

Perlite is classified by Occupational Safety and Health Administration (OSHA) of the US government as "nuisance dust" or Particulates Not Otherwise Regulated (PNOR).

Does not meet the criteria for classification as hazardous according to European Commission Regulation 1272/2008 and Directive 67/548/EC as amended.

**2.2 Label Elements**

<b>Hazard Pictograms</b>	:	Not required
<b>Signal Word</b>	:	Not required
<b>Hazard Statements</b>	:	Eye: May cause mild eye irritation. Respiratory System: Throat irritation that may cause coughing
<b>Precautionary statements</b>	:	
<b>Prevention</b>	:	P280: Wear protective gloves, protective clothing, respiratory protection, eye protection.

**TPS EP-12™ EXPANDED PERLITE INSULATION**

**Response** : P260: Do not breathe dust, fume, gas, mist, vapors, spray.  
P264: Wash thoroughly after handling  
P270: Do not eat, drink or smoke when using this product.  
: P305+P351+P338: If in eyes: DO NOT RUB EYES. Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
P304+P340: IF INHALED: Remove to fresh air and keep comfortable for breathing.

**Storage** : No special requirements

**Disposal Considerations** : No special requirements

**2.3 Other hazards** : None

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

<u>3.1 Substance/Preparation</u>	<u>Ingredient Name</u>	<u>CAS Number</u>	<u>%w/w</u>
	Expanded Perlite	93-763-70-3	Proprietary
	Sodium Silicate (3.22 weight ratio)	1344-09-8	Proprietary

**Section 4 – First Aid Measures**

**4.1 Description of First Aid Measures**

**Inhalation** : Remove to fresh air and keep at rest in a position comfortable for breathing. Drink water to clear throat.

**Skin Contact** : If skin irritation occurs: Wash with plenty of water.

**Eye Contact** : Rinse cautiously with water for several minutes. Remove contact lens if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.

**4.2 Most Important Symptoms and Effects, Both Acute and Delayed**

**Symptoms relating to use** : None

**4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed**

**General Information** : None Required

**Section 5 – Fire-Fighting Measures**

**5.1 Extinguishing media**

**Suitable extinguishing media** : Not Applicable (NA)

**Unsuitable extinguishing media** : NA

**Surrounding fires** : NA

**5.2 Special hazards arising from the substance**

**TPS EP-12™ EXPANDED PERLITE INSULATION**

Hazardous Combustion Products : Will not burn

**5.3 Special Protective Actions for Fire-fighters**

Protection Against Fire : NA

Special Procedures : NA

**Section 6 – Accidental Release Measures****6.1 Personal Precautions, Protective Equipment and Emergency Procedures**

For Emergency Responders : No hazard emergency is seen for this product. The use of PPE's as listed in Section 8 is sufficient protective measure.

For Non-Emergency Personnel : NA

**6.2 Environmental Precautions**

Environmental Precautions : NA

**6.3 Methods and Materials for Containment and Clean Up**

Clean Up Methods : Collect broken pieces. Moisten residual dust and sweep, or vacuum dry dust. Store in bags for recycling or disposal.

**6.4 Reference to Other Sections**

See Section 8 – Exposure Controls/Personal Protection

**Section 7 – Handling and Storage****7.1 Precautions for Safe Handling**

Precautions for Safe Handling : Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe fume, gas, mist, vapors, spray.

Technical Protective Measures : Provide sufficient ventilation in enclosed areas to prevent vapor accumulation.

**7.2 Conditions for Safe Storage, including Any Compatibilities**

Storage : Keep in a dry and well ventilated place.

Storage Regulation : None known.

Storage – Away From : Strong acids.

**Section 8 – Exposure Controls/Personal Protection****8.1 Control Parameters**Perlite: ACGIH TLV : 10mg/m<sup>3</sup>

**TPS EP-12™ EXPANDED PERLITE INSULATION**

	<b>OSHA PEL</b>	:	15mg/m <sup>3</sup>
<b>Sodium silicate:</b>	<b>ACGIH TLV</b>	:	15mg/m <sup>3</sup> (Total Dust)
	<b>OSHA PEL</b>	:	10mg/m <sup>3</sup> (Inhalable Particulate)

**8.2 Appropriate Engineering Controls**

**Engineering Controls** : Not required under normal conditions of use.

**8.3 Individual Protection Measures**

<b>Personal Protection</b>	:	Avoid all unnecessary exposure.
<b>Respiratory Protection</b>	:	Wear DOLE or NIOSH approved mask.
<b>Hand Protection</b>	:	Wear gloves.
<b>Skin Protection</b>	:	Wear suitable protective clothing.
<b>Eye Protection</b>	:	Wear goggles or face mask.
<b>Others</b>	:	Do not eat, drink, or smoke when using.

**Section 9 – Physical and Chemical Properties****9.1 Basic Physical and Chemical Properties**

<b>Physical State (20°C)</b>	:	Rigid molded blocks/sections
<b>Color</b>	:	White/Off-White with slight green tint
<b>Melting Point (°C)</b>	:	> 1000
<b>Flammability</b>	:	Non-flammable
<b>Density (dry)</b>	:	200 – 220 g/liter
<b>Water Solubility</b>	:	Insoluble

**9.2 Other Information**

<b>Explosive Properties</b>	:	None
<b>Explosion Limits – Upper (%)</b>	:	None
<b>Explosion Limits – Lower (%)</b>	:	None
<b>Oxidizing Properties</b>	:	None

**Section 10 – Stability and Reactivity****10.1 Reactivity**

**Reactivity** : Not established

**10.2 Chemical Stability**

**Chemical Stability** : Very stable

**10.3 Possibility of Hazardous Reactions**

**Hazardous Reactions** : Not established

**10.4 Conditions To Avoid**

**Conditions To Avoid** : None

## TPS EP-12™ EXPANDED PERLITE INSULATION

<b>10.5 Incompatible Materials</b>	:	
<b>Incompatible Materials</b>	:	Strong acids
<b>10.6 Hazardous Decomposition Products</b>	:	
<b>Hazardous Decomposition Products</b>	:	None

## Section 11 – Toxicological Information

**11.1 Information on Toxicological Effects**

<b>Acute Toxicity</b>	:	
* <b>Inhalation</b>	:	May cause irritation of the respiratory tract.
* <b>Eye</b>	:	May cause reversible irritation
* <b>Dermal</b>	:	Prolonged and repeated contact may cause dryness and irritation
* <b>Ingestion</b>	:	May cause irritation
<b>Symptoms</b>	:	No information available
<b>Sensitization</b>	:	No information available
<b>Mutagenicity</b>	:	No information available
<b>Carcinogenicity</b>	:	Not listed by the IARC, NTP, ACGIH and OSHA as a carcinogen
<b>Reproductive Toxicity</b>	:	No information available
<b>STOT-Single Exposure</b>	:	No information available
<b>STOT-Repeated Exposure</b>	:	No adverse effect on respiratory health. (Section 16)
<b>Aspiration Hazard</b>	:	No information available

## Section 12 – Ecological Information

**12.1 Toxicity**

<b>Toxicity Information</b>	:	Non-hazardous as a naturally occurring inorganic mineral
-----------------------------	---	--

**12.2 Persistence-Degradability**

<b>Persistence-Degradability</b>	:	Very stable inorganic material. Will not biodegrade.
----------------------------------	---	--

**12.3 Bioaccumulative Potential**

<b>Bioaccumulative Potential</b>	:	Not likely to bioaccumulate
----------------------------------	---	-----------------------------

**12.4 Mobility In Soil**

<b>Mobility in Soil</b>	:	Will move readily in soil and water
-------------------------	---	-------------------------------------

**12.5 Results of PBT and vPvB assessment**

<b>Results of PBT and vPvB assessment</b>	:	NA
---	---	----

**12.6 Other Adverse Effects**

<b>Environmental Precaution</b>	:	None required
---------------------------------	---	---------------

**TPS EP-12™ EXPANDED PERLITE INSULATION****Section 13 – Disposal Considerations****13.1 Waste Treatment Method**

**General** : Recycle or crush and add to soil to improve aeration and drainage..

**Section 14 – Transport Information****US Department Of Transportation**

Not classified as dangerous goods

**United Nations Committee of Experts on the Transport of Dangerous Goods**

**UN ID / Number:** Not listed/No allocation

**International Maritime Organization Dangerous Goods Code (IMDG)**

**Proper Shipping Name:** Not classified as dangerous goods

**Marine pollutant:** No

**International Civil Aviation Organization/International Air Transport Association**

**Proper Shipping Name:** Not classified as dangerous goods

**Section 15 – Regulatory Information****PHILIPPINES INVENTORY OF CHEMICALS AND CHEMICAL SUBSTANCES**

In compliance with the Inventory

**USA FEDERAL REGULATIONS****OSHA Hazard Communication Standard**

Perlite is considered as nuisance dust and is not regulated.

**Comprehensive Environmental Response Compensation and Liability Act**

Material not reportable under CERCLA. Comply with Local Requirements.

**Superfund Amendments and Reauthorization Act Title III**

Not Listed

**US. Toxic Substances Control Act**

In the TSCA Inventory but is not regulated and is exempt from TSCA Inventory requirements under 40 CFR 720.30

**Section 16 – Other Information****HMIS Rating**

Health - 1  
Flammability - 0

**NFPA Rating**

Health - 0  
Flammability - 0



# SAFETY DATA SHEET

(Compliant with GHS Requirements)

## TPS EP-12™ EXPANDED PERLITE INSULATION

Reactivity - 0  
Personal Protection - E

Reactivity - 0

0 = Minimal Hazard  
4 = Severe Hazard  
E = Dust respirator

0 = Minimal Hazard  
4 = Severe Hazard

L. Daniel Maxim, Ron Niebo, and Ernest E. McConnell. Perlite toxicology and epidemiology – a review. <http://informahealthcare.com/iht>, ISSN: 0895-8378 (print), 1091-7691 (electronic).

*“Health surveillance studies of workers in US perlite mines and expansion plants (including some workers exposed to levels greater than prevailing occupational exposure limits (OELs) conducted over 20 years indicate that the respiratory health of workers is not adversely affected.*

*On balance, we conclude that the available toxicology and epidemiology data indicate that occupational exposure to perlite entails risks comparable to exposure to other inert insoluble (“nuisance”) dusts. Companies should continue to use available means (engineering controls, workplace practices, and personal protective equipment) to ensure that workplace exposures are in compliance with applicable OELs. Continued medical surveillance of occupationally exposed cohorts is also a reasonable precaution. Special attention needs to be paid to monitor and control any exposures to respirable crystalline silica associated with any minerals mined.”*

This revised data sheet supersedes all previous versions prepared and issued before July 1, 2015.

Revised Edition Number	Effectivity Date	Supersedes
3	April 1, 2020	July 1, 2015

**Disclaimer:** ALL INFORMATION, RECOMMENDATIONS, AND SUGGESTIONS APPEARING HEREIN CONCERNING OUR PRODUCT ARE BASED UPON TESTS AND DATA BELIEVED TO BE RELIABLE. HOWEVER, IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE SAFETY, TOXICITY, AND SUITABILITY FOR HIS OWN USE OF THE PRODUCT DESCRIBED HEREIN. SINCE THE ACTUAL USE BY OTHERS IS BEYOND OUR CONTROL, NO GUARANTEE, EXPRESSED OR IMPLIED, IS MADE BY UNITED PERLITE CORPORATION AS TO THE EFFECTS OF SUCH USE, THE RESULTS TO BE OBTAINED, OR THE SAFETY AND TOXICITY OF THE PRODUCT. THE INFORMATION HEREIN IS NOT TO BE CONSTRUED AS ABSOLUTELY COMPLETE SINCE ADDITIONAL INFORMATION MAY BE NECESSARY OR DESIRABLE WHEN PARTICULAR OR EXCEPTIONAL CONDITIONS OR CIRCUMSTANCES EXIST OR BECAUSE OF APPLICABLE LAWS OR GOVERNMENT REGULATIONS.