



MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name: Einsulation Calcium Silicate Pipe Insulation
Product Use: Thermal Insulation

Manufacturer / Supplier

einsulation.com, inc
508 North Second Street
Fairfield, IA 52556, USA

Phone Numbers

MSDS Assistance : 1 641 472 7246
Technical Assistance : 1 641 472 7246
Customer Service : 1 641 472 7246
Fax Number : 1 641 472 4722

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS #</u>	<u>Percentage</u>	<u>TLV</u>	<u>PEL</u>
Calcium Silicate	1344-95-2	>85%	10 mg/m ³	5 mg/m ³
Sodium Silicate	1344-09-8	0-10%	10 mg/m ³	5 mg/m ³
Cellulose Fibers	65996-61-4	1-5%	None	None
Crystalline Silica (quartz)	14808-60-7	0.1 - 2%	0.1 mg/m ³	0.1 mg/m ³

Key: TLV = ACGIH, 8 hour time weighted average (TWA)
PEL = OSHA permissible exposure limit
TLV and PEL limits are for total respirable (inhalable) dust

SECTION 3 - HAZARDS IDENTIFICATION

Emergency Overview:

This product contains crystalline silica, which is considered a hazard by inhalation. The International Agency for Research on Cancer (IARC) has classified occupational exposures to respirable crystalline silica as being carcinogenic to humans (Class 1). This classification is based on what IARC considered sufficient evidence from epidemiological studies of humans for the carcinogenicity of inhaled silica in the forms of quartz and cristobalite. Crystalline silica is also known to cause of Silicosis, a non-cancerous lung disease.

HMIS Rating: **Health:** 1* **Fire:** 0 **Reactivity:** 0 **Personal Protection:** E
WHMIS Class: einsulation calcium silicate is not a WHMIS controlled product

Primary Routes of Entry:

Via respirable dust to the lungs and respiratory system and via coarse dust and particulate to the eyes.

Primary Target Organs:

Lungs, respiratory system and eyes.

Potential Health Effects:

Inhalation:

Long term overexposure to respirable crystalline silica dust may cause permanent and irreversible lung damage including silicosis.

Skin Contact :

Possible dryness or irritation resulting from long term exposure to product dust.

Eye Contact :

A mechanical irritant, which can cause moderate to severe eye irritation.

Ingestion :

Non-hazardous when ingested. Potentially a mild irritant to the GI tract if excessive quantity is ingested.

Medical Conditions Aggravated by Exposure :

Pre-existing chronic upper respiratory and lung disease such as, but not limited to, bronchitis, emphysema and asthma.

Carcinogenicity :

This product contains crystalline silica which is classified as a class I, human carcinogen by IARC, as a suspect carcinogen by NTP and as a possible select carcinogen by OSHA.

SECTION 4 - FIRST AID MEASURES**Inhalation :**

Remove to fresh air. Drink water to clear throat and blow nose to evacuate dust. If coughing and irritation develop, call a physician.

Skin Contact :

Normal good personal hygiene practices. Wash with mild soap and warm water after each exposure.

Eye Contact :

Flush with large amounts of water until irritation subsides, at least 15 minutes. See physician if irritation persists.

Ingestion :

Emergency procedures not normally required. May be a temporary irritant to the GI system.

SECTION 5 - FIREFIGHTING MEASURES

NFPA Rating :	Health : 0	Fire : 0	Reactivity : 0	Other : 0
			LEL :N/A	UEL : N/A

Flashpoint and Method : This is a non-flammable product.

Extinguishing Method : Not applicable. Product will not burn.

Special Firefighting Procedures : Not applicable.

Fire or explosion Hazards : None.

SECTION 6 - ACCIDENTAL RELEASE MEASURES**Clean-up Procedures :**

Pick up or shovel material into waste container taking care to minimize dust. Wet down if necessary to control dust. Vacuum clean dust with equipment fitted with HEPA filter.

Personal Precautions :

If dusty conditions exist, wear a face mask approved for use with dusts such as 3M 8511 N-95 or equivalent.

Environmental Precautions :

None normally required.

SECTION 7 - HANDLING AND STORAGE**Storage Requirements :**

Store in dry area. Always segregate materials by major hazard class.

Special Sensitivity or Incompatibility :

Avoid contact with strong acids.

Handling Precautions :

Assure proper respiratory protection if dust potential exceeds PEL/TLV.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**Respiratory Protection :**

When over PEL/TLV wear an approved face mask such as 3M 8511 N-95 or equivalent, to protect against silica and pneumoconiosis producing dust. Concentrations of dust that exceed the recommendations of the dust mask manufacturer will need a higher level of respiratory protection, such as a half mask respirator with appropriate dust filters.

Eye Protection :

Wear safety glasses with side shields, goggles or face shield when cutting, milling or abrading to protect eyes against dust and particles.

Skin Protection :

Under normal conditions the wearing of protective gloves and clean, body-covering clothing should be adequate.

Engineering Controls :

Maintain sufficient mechanical or natural ventilation to assure dust concentrations remain below PEL/TLV. Use local exhaust if necessary. Power equipment should be equipped with properly designed dust collection devices.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical Form	:	Solid White / Off-white
Odor	:	Odorless
Melting Point	:	Not Determined
Specific Gravity	:	0.25

SECTION 10 - REACTIVITY**Stability :**

Product is stable under normal conditions.

Hazardous Polymerization :

Cannot occur.

Incompatibilities :

None in designed use.

Decomposition Products :

Decomposition of residual organic fillers will emit fumes of CO and CO₂ during initial exposure to service temperatures.

Conditions to Avoid :

None in designed use.

SECTION 11 - TOXICOLOGICAL/ECOLOGICAL INFORMATION**LD₅₀ :** N/A**LC₅₀ :** N/A**Ecological Hazards :**

Most ingredients in this product are naturally occurring minerals. Unless contaminated in service, this product is non-hazardous to the environment.

SECTION 12 - DISPOSAL CONSIDERATIONS**Waste Disposal Method :**

May be disposed in an approved landfill unless contaminated in service. If contaminated with hazardous materials, place waste in suitable container. Seal and properly label the waste container. Send the container to an approved Transportation, Storage and Disposal (TSD) facility via an approved waste hauler.

SECTION 13 - TRANSPORTATION INFORMATION**US DOT Shipping Name**

Not regulated

DOT Label

None

UN/NA Number

None

Canadian TGD Shipping Description :

Not regulated as dangerous goods according to Canadian TDGA

International Dangerous Goods Information :IMO

Not regulated as dangerous goods according to the IMDG Code.

ICAO

Not regulated as dangerous goods according to IACO Technical Instructions.

SECTION 14 - REGULATORY INFORMATION**TSCA/CEPA Status :**

All components of this product are included in the TSCA and CEPA Chemical Inventories or are naturally occurring.

CERCLA Reportable Quantity :

Not applicable.

SARA Title III :**Section 302 Extremely Hazardous :**

This product contains no extremely hazardous substances as defined and listed in section # 302.

Section 313 Toxic Chemicals :

This product does not contain substances, which are reportable under Section 313.