Material Safety Data Sheet

Product: Mineral Fiber Pipe Insulation

MSDS Date: 7-1-05
Product Name: Mineral Fiber Pipe Insulation
Manufacturer: einsulation.com, Inc.

I. Product and Company Description

einsulation.com, Inc.
508 North Second Street
Fairfield, Iowa 52556
U.S.A

Product Information/Emergency Phone Number:
(800) 318-4572

Chemical Name or Synonym:
Not Applicable

II. Chemical Composition

Component	CAS#	% Composition
Mineral Fiber	65997-17-3	>95
Heat Cured Urea Modified Phenol-formaldehyde resin	25104-55-6	<5

III. Hazards Identification

A. Emergency Overview:

Information Pertaining To Particular Dangers For Man And Environment:
Acrid smoke may be generated during a fire. Exposure to dust may be irritating to the eyes, nose and throat.

Physical Appearance and Odor:
Greenish/yellow solid with no odor

B. Potential Health Effects:

Acute Eye:
Dusts and fibers from this product may cause temporary mechanical irritation to the eyes.

Acute Skin:
Dusts and fibers from this product may cause temporary mechanical irritation to the skin.

Acute Inhalation:
Temporary mechanical irritation of the upper respiratory tract (scratchy throat, coughing, and congestion) may result from exposures to dusts and fibers in excess of applicable exposure limits.

Acute ingestion:
Not anticipated under normal use conditions However, ingestion of product may produce gastrointestinal irritation and disturbances.

Medical Conditions Aggravated by Exposure:
Chronic respiratory or skin conditions may temporarily worsen from exposure to this product.

IV. First Aid Measures

First Aid Measures for Accidental:

Eye Exposure:
Immediately flush eyes with plenty of water for 15 minutes. Get medical attention, if irritation persists.

Skin Exposure:
For skin contact, wash with mild soap and running water. Use a wash cloth to help remove fibers. To avoid further irritation, do not rub or scratch affected areas. Rubbing or scratching may force fibers into the skin. If irritation persists get medical attention. Never use compressed air to remove fibers from the skin.

Inhalation:
Remove to fresh air. If breathing has stopped, administer artificial respiration and supply oxygen. Seek medical attention.

Ingestion:
Ingestion of this material is unlikely. If it does occur, watch the person for several days to make sure that partial or complete intestinal obstruction does not occur. Do not induce vomiting unless directed to do so by medical personnel.

V. Fire Fighting Measures

Fire Hazard Data:

Flash Point: None
Autoignition: NA
Method Used: NA

Flammability Limits (vol/vol%): **Lower:** NA **Upper:** NA

Extinguishing Media:
Product itself has no risk of fire or explosion. Use extinguishing media appropriate for surrounding materials.

Special Fire Fighting Procedures:
Firefighters should be equipped with self-contained breathing apparatus and turn out gear.

Unusual Fire and Explosion Hazards:
May release acrid smoke in a sustained fire.

Hazardous Decomposition Materials (Under Fire Conditions):
Primary combustion products are carbon monoxide, carbon dioxide, ammonia, and water. Other undetermined compounds could be released in small quantities.

VI. Accidental Release Measures

Cleanup and Disposal of Spill:
This material will settle out of the air. If concentrated on land, it can then be scooped up for disposal as a non-hazardous waste. This material will sink and disperse along the bottom of waterways and ponds. It can not easily be removed after it is waterborne; however, the material is non-hazardous in water.

VII. Handling and Storage

Handling and Storage:
No special procedures are required for this material. Keep product in its packaging, as long as practicable to minimize potential dust generation. Keep work areas clean. Avoid unnecessary handling of scrap materials by placing them in waste disposal containers and equipment, kept as to close working areas as possible, to prevent release of fibers and dust. Avoid inhaling dusts or vapors produced during thermal processing. Avoid eye and excessive skin contact. Use only with adequate ventilation. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Special care must be taken to avoid buildup of dusts.

VIII. Exposure Controls / Personal Protection

Exposure Guidelines:

Component	Exposure limits		
	ACGIH	NIOSH	OSHA-PELs
Mineral Fiber	1 f/cc (fibers longer than 5um w/diameter less than 3um) 3 mg/m3 (respirable) 10 mg/m3 (inhalable)	ND	1 f/cc (fibers longer than 5um w/diameter less than 3um) 5 mg/m3 (respirable) 15 mg/m3 (total)
Urea	ND	ND	ND

Engineering Controls:
General dilution ventilation and/or local exhaust ventilation should be provided as necessary to maintain exposures below regulatory limits. Dust collection systems should be used in operations involving cutting or machining and may be required in operations using power tools.

Respiratory Protection:
Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH/MSA approved respirator when necessary. A respirator should be used if ventilation is unavailable, or is inadequate for keeping dust and fiber levels below the applicable exposure limits.

Eye / Face Protection:
Wear safety glasses with side shields or goggles.

Skin Protection:
Normal work clothing (long sleeved shirts and long pants) is recommended. Use impervious gloves. Skin irritation is known to occur chiefly at the pressure points such as around the neck, wrists, waist and between the fingers.

IX. Physical and Chemical Properties

Physical Appearance:	Fibrous solid
Odor:	None
pH:	NA
Specific Gravity:	NA
Water Solubility:	Insoluble
Melting Point:	2150 °F (1177 ºC)
Freezing Point Range:	NA
Boiling Point:	NA
Vapor Pressure:	NA
Percent Volatiles by Volume:	NA
Viscosity:	NA

X. Stability and Reactivity

Chemical Stability:
Stable

Conditions to Avoid:
Avoid creating dusts.

Materials / Chemicals to be Avoided:
This product reacts with hydrofluoric acid.

Hazardous Decomposition Products:
Primary combustion products are carbon monoxide, carbon dioxide, ammonia, and water. Other undetermined compounds could be released in small quantities.

Hazardous Polymerization:
Will not occur

XI. Toxicological Information

Acute and Chronic Toxicity:

A: General Product Information
Dusts may cause mechanical irritation to eyes and skin. Ingestion may cause transient irritation of throat, stomach and gastrointestinal tract. Inhalation may cause coughing, nose and throat irritation, and sneezing. Higher exposures may cause difficulty breathing, congestion, and chest tightness.

B: Component Analysis - LD50/LC50
For Urea:
Oral LD50 Rat : 7 gm/kg
Oral LD50 Mouse : 7 gm/kg

Carcinogenicity
A: General Product Information
In October 2001 the International Agency for Research on Cancer (IARC) concluded its re-evaluation of the carcinogenic risk of mineral wool fibers. The result was a reclassification of the fibers from Group 2B (possibly carcinogenic to humans) to Group 3 (not classifiable as to the carcinogenicity to humans). Epidemiological studies published during the 15 years prior to the 2001 IARC review provide no evidence of increased risk of cancer from occupational exposure during manufacture or use of mineral wool fiber.

B: Component Carcinogenicity
For Mineral Fiber:
ACGIH: A3 - animal carcinogen (related to rock wool fibers) with unknown relevance to humans
IARC: Group 3, Not classifiable as a human carcinogen.

XII. Ecological Information

Ecotoxicological Information:
None

Chemical Fate Information:
ND

XIII. Disposal Considerations

Waste Disposal Method:
Discard any product, residue, disposable container or liner in full compliance with applicable regulations.

Container Handling and Disposal:
Dispose of container and unused contents in accordance with applicable regulations.

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XIV. Transportation Information

Shipping Name:

ADR/RID/IMO/ICAO /TDG/US DOT	**Proper Shipping Name**	Not Regulated
	Hazard Class	Not Regulated
	ID Number	Not Regulated
	Packaging Group	Not Regulated
	Label Statement	Not Regulated

XV. Regulatory Information

U.S. Federal Regulations:

TSCA Inventory Status:
Listed on Inventory: Yes

RCRA Haz. Waste No.: NA

SARA Title III:
Section 302 Yes for Mineral Fiber
SARA Title III Hazard Classes:
Fire Hazard: N
Reactive Hazard: N
Release of Pressure: N
Acute Health Hazard: Y
Chronic Health Hazard: Y

U.S. State Regulations:

The components identified with an X are present on the respective state's Right To Know lists:

Component	MA	PA	MN	NJ	CA	MI
Mineral Fiber	X	X	X		X	
Urea						

California Prop 65 List: Mineral Fiber is classified as a substance known to the state of California to be a carcinogen

International Regulations:

Canada Workplace Hazardous Materials Information System (WHMIS):
The products have been classified in accordance with the hazard criteria of the Controlled Product Regulations and this Material Safety Data Sheet contains all the information required by the Controlled Product Regulations
WHMIS IDL: No components are listed on the IDL
WHMIS Classification: No components are classified as controlled products.

XVI. Other Information

National Fire Protection Association Hazard Ratings – NFPA(R):

Health Hazard:	1
Flammability:	0
Reactivity:	0

HMIS Rating:

Health Hazard:	1
Flammability:	0
Reactivity:	0

Key Legend Information:
N/A – Not Applicable
ND – Not Determined
ACGIH – American Conference of Governmental Industrial Hygienists
OSHA – Occupational Safety and Health Administration
TLV – Threshold Limit Value
PEL – Permissible Exposure Limit
TWA – Time Weighted Average
STEL – Short Term Exposure Limit
NTP – National Toxicology Program
IARC – International Agency for Research on Cancer

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