



Industrial Insulation Group

A Calsilite/Johns Manville Joint Venture

Please refer to the manufacturers' website for the most current version of all Material Safety Data Sheets

Date: 9/2/2005

MSDS ID: 20502

Rev: 1.0.2

Replaces: 5/9/2002

Material Safety Data Sheet

Material Name: Insulating Cement

Section 1—Chemical Product and Company Identification

Product Name: Calcoat 127
CAS# Mixture/None Assigned
Generic Name: Insulation cement
Formula: Mixture

Manufacturer Information

Industrial Insulation Group
2100 Line Street
Brunswick, GA 31520

Phone Number for Health and Safety Information: 970-858-6211(M-F, 7:00 a.m.—4:00 p.m. MT)

Section 2— Composition and Information on Ingredients

CAS #	Component	Percent	OSHA	ACGIH	NIOSH	UNITS
			PEL	TLV	REL	
1344-95-2	Synthetic Calcium Silicate	>50	15(T) 5(R)	10	10(T) 5(R)	mg/M ³
65997-15-1	Portland Cement	>10	5	5	10(T) 5(R)	mg/M ³
1302-78-9	Bentonite Clay	>10	NE			
7632-00-0	Sodium Nitrate	>2	NE			
65997-17-3	Synthetic Vitreous Fiber	>1	15(T) 5(R)	5	5	mg/M ³

NE = Not Established

ACGIH TLVs are 2003 values. OSHA PELs are those in effect on the date of preparation of this MSDS. The listed TVLs and PELs are 8 hour time weighted average exposure limits. RELs are 10 hr shift and 40 hr work week time weighted average exposure limits. TLVs and RELs are Total Dust/Respirable Fraction.

Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following:
Nuisance particulates.

Additional Component Information

This product may contain >0.1% crystalline silica as a contaminant in the raw materials. However, standard industrial hygiene air monitoring surveys conducted under normal and test (worst-case) situations have not detected any respirable crystalline silica in the occupational environment during cutting and handling of this product.

Section 3—Hazards Identification

Emergency Overview

APPEARANCE AND ODOR: Yellow fibrous cement. Odorless.

Under normal conditions of use, this product is not expected to create any unusual emergency hazards.

Inhalation of excessive amounts of dust from the product may cause temporary upper respiratory irritation and/or congestion -- remove affected individuals to fresh air.

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.

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
WHMIS Class: CalCoat 127 is not a WHMIS controlled product

Potential Health Effects

Summary

Breathing dry adhesive particles (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

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 respiratory, skin, or eye diseases or conditions.

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 fibers, 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. Dry cement or other 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	Method Used:	Not applicable
Upper Flammable Limit (UFL):	Not applicable	Lower Flammable Limit (LFL):	Not applicable
Auto Ignition:	Not determined	Flammability Classification:	Non Combustible
Rate of Burning:	Not determined		

General Fire Hazards

There is no potential for fire or explosion.

Extinguishing Media

Carbon dioxide (CO₂), water, water fog, dry chemical.

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.

Section 6—Accidental Release Measures

Containment Procedures

Pick up large pieces. 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.

Storage Procedures

Warehouse storage should be in accordance with package directions, if any. Material should be kept dry, and protected from the elements.

Section 8—Exposure Control and Personal Protection

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

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

Personal Protective Equipment: Skin

Rubber gloves are recommended.

Personal Protective Equipment: 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 (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. Operations such as sawing, blowing, tear out, and spraying may generate airborne fiber concentrations requiring a higher level of respiratory protection. For exposures up to 50 times the established exposure limits use a full-face respirator, rated N99 or higher.

This product may contain >0.1% crystalline silica as a contaminant in the raw materials. However, standard industrial hygiene air monitoring surveys conducted under normal and test (worst-case) situations have not detected any respirable crystalline silica in the occupational environment during cutting and handling of this product.

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.

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:	Yellow fibrous cement	pH:	Not applicable
Odor:	Odorless	Vapor Density:	Not applicable
Physical State:	Fibers with cement dust	Melting Point:	Not determined
Vapor Pressure:	Not applicable	Specific Gravity:	Not determined
Boiling Point:	Not applicable		
Solubility (H ₂ O):	Nil		

Freezing Point:	Not applicable	Evaporation Rate:	Not applicable
Viscosity:	Not applicable	Percent Volatile:	0
VOC:	Not applicable		

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 amorphous silica.

Carcinogenicity

A: General Product Information

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

B: Component Carcinogenicity

Calcium silicate (1344-95-2)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

Iron oxide* (1309-37-1)

ACGIH: A4 - Not Classifiable as a Human Carcinogen (dust and fume, as Fe)

ARC: Supplement 7, 1987; Monograph 1, 1972 (Group 3 (not classifiable))

Synthetic Vitreous Fiber (65997-17-3)

ACGIH: A3 - Not Classifiable as a Human Carcinogen (related to Continuous filament glass fibers)

IARC: Monograph 43, 1988 (related to Glass filaments) (Group 3 (not classifiable))

Crystalline silica (May be present as a contaminant)* (14808-60-7)

ACGIH: A2 - Suspected Human Carcinogen

NTP: Known Carcinogen (Select Carcinogen)

IARC: Monograph 68, 1997; (inhaled in the form of quartz or cristobalite from occupational sources) (Group 1 (carcinogenic to humans))

Chronic Toxicity

This product may contain >0.1% crystalline silica as a contaminant in the raw materials. However, standard industrial hygiene air monitoring surveys conducted under normal and test (worst-case) situations have not detected any respirable crystalline silica in the occupational environment during cutting and handling of this product.

Crystalline silica is considered a hazard by inhalation. IARC has classified crystalline silica as a Group 1 substance, carcinogenic to humans. This classification is based on the findings of laboratory animal studies (inhalation and implantation) and epidemiology studies that were considered sufficient for carcinogenicity.

Excessive exposure to respirable crystalline silica can cause silicosis, a non-cancerous lung disease. Crystalline silica has not been classified by OSHA.

No chronic health effects are known to be associated with exposure to synthetic vitreous mineral fiber. Results from epidemiological studies have not shown any increases in respiratory disease or cancer. IARC has classified synthetic vitreous mineral fiber as a Group 3 substance, not classifiable as to its carcinogenicity to humans. Because of the large diameter of synthetic vitreous mineral fibers, these products are not considered respirable.

Section 12—Ecological Information

Ecotoxicity

A: General Product Information

No data available for this product.

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—Transportation Information

US DOT Information

Shipping Name: This product is not classified a hazardous material for transport.

Section 15—Regulatory Information

US Federal Regulations

A: General Product Information

No information on this product as a whole.

B: Component Analysis

None of this products 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

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

Other Regulatory Information

A: General Product Information

No information available for the product.

B: TSCA Status

None of the components listed in this product are listed on the TSCA Export Notification 12(b) list.

C: Component Analysis - Inventory

No information available for the product.

International Regulations

A: General Product Information

Canada Workplace Hazardous Materials Information System (WHMIS):

Product classified as a manufactured article as defined in HPA section 11(1).

B: Component Analysis - WHMIS IDL

The following components are identified under the CHPA IDL:

Portland Cement—CAS 65997-15-1

Bentonite—CAS 1302-78-9

Sodium Nitrate—CAS 7632-00-0

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.

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 Revision 1.0.1 with new formatting and clarified exposure limits. Get this and other MSDS forms electronically via Internet: <http://www.iig-llc.com> or by calling 1-970-858-6200.

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 Industrial Insulation Group, it is the users 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.