

MATERIAL SAFETY DATA SHEET Thermo-12® Gold Calcium Silicate Insulation

**For Chemical Emergency, Spill, Leak, Fire, Exposure or Accident,
CALL INFOTRAC – Day or Night 1-800-535-5053
Outside the United States call collect 1-352-323-3500**

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Names: Thermo-12® Gold Calcium Silicate Insulation
 MPT Calcium Silicate Mitered Fittings
Company ID: Industrial Insulation Group, LLC
 2100 Line Street
 Brunswick, GA 31520
Phone: USA Emergency Phone Number:
 INFOTRAC (24-hr/7 days): 1-800-535-5053
 Outside the United States call collect +1-352-323-3500
 For Medical Emergency - Call 1-800-535-5053
Date: 2 Nov 2011 Supersedes: 7 Nov 2008
MSDS ID: 20501 Revision 1.0.7

2. COMPOSITION INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS #</u>	<u>EINECS #</u>	<u>OSHA PEL/ TWA (mg/m³)</u>	<u>ACGIH TLV/ TWA (mg/m³)</u>	<u>%</u>
Synthetic calcium silicate	1344-95-2	215-710-8	15	10	> 86
Sodium silicate	1344-09-8	239-981-7	15	10	0-6
Cellulose fiber	9004-34-6	232-674-9	15	10	0-4
Synthetic cellulose fiber	61788-77-0	270-493-7	15	10	0-4
Iron-Based Color	51274-00-1	215-176-6	15	10	0-1

See Section 8 for Personal Protection (PPE).

3. HAZARDS IDENTIFICATION



Irritant

Emergency Overview:

Appearance: Yellow semi-circle or block insulation with coloring throughout to show that product is asbestos free.

Odor: Odorless.

Warning Statements: This product presents no unusual hazards during normal use. However, cutting, sawing or abrading may increase personal exposure from particulates. Prolonged exposure may cause dermatitis. Eye irritation may be possible from extended exposure.

Potential Adverse Health Effects:

Eye Contact: Temporary irritation, itching or redness. If irritation persists, seek medical attention.

Skin Contact: Temporary irritation, itching or redness. If irritation persists, seek medical attention.

Ingestion: The product is not designed to be ingested, may cause irritation to gastrointestinal tract.

Inhalation: Particles if inhaled may cause irritation to nasal and respiratory passages. Remove to fresh air. If breathing difficult, seek medical attention immediately.

This product may contain trace amounts of crystalline silica (quartz) as a natural contaminate in the raw materials. However, standard industrial monitoring surveys conducted under normal and test (worst-case) situations have not detected any reportable crystalline silica in the respirable dust in the occupational environment.

MATERIAL SAFETY DATA SHEET Thermo-12® Gold Calcium Silicate Insulation

4. FIRST AID MEASURES

If in Eyes: PROMPTLY flush with large amounts of water for at least 15 minutes, remove contact lenses if worn. Avoid scratching eyes. Flush continually lifting the lower and upper lids. See a physician if irritation persists.

If on Skin: Immediately flush skin with plenty of water. Seek medical attention if irritation persists.

If Swallowed: DO NOT attempt to induce vomiting. Have the individual rinse mouth with water thoroughly. NEVER give anything to an unconscious person. No chronic effects expected.

If Inhaled: Remove to fresh air. Rinse areas with water to remove dust particles.

5. FIRE FIGHTING MEASURES

Flash Point: Not flammable

Extinguishing Media: Use appropriate medium for surrounding fire such as carbon dioxide, dry chemical, powder or foam.

Special Fire Fighting Procedures: Provide for the protection of the employees and residents. No special procedures are expected to be necessary for this product. Normal fire-fighting procedures should be followed to avoid inhalation of smoke and gasses produced by other materials.

6. ACCIDENTAL RELEASE MEASURES

In Cases of Spillage:

Pick up large pieces. Vacuum dust. 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: For small or large releases, comply with state and local regulations for disposal of this product.

7. HANDLING AND STORAGE

Material should be kept dry and protected from the elements. Use good housekeeping to keep down accumulation of dust particles. Keep away from children, food, feed and domestic animals. Prevent eating, drinking, tobacco usage, and cosmetic application in areas where there is a potential for exposure to the material. Always wash your hands thoroughly after handling.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye Protection: Safety glasses with side shields.

Skin Contact: Wear leather or cotton gloves and long sleeves. Follow the manufacturer's instructions for cleaning the PPE.

Respiratory Protection: Wear a vapor/particulate respirator (NIOSH/MSHA N95) or equivalent. OSHA requires medical qualification to wear a respirator and proper fit testing documentation. Exposure to dust concentrations above the PEL, may require more respiratory protection.

Ventilation Protection: Provide proper mechanical ventilation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow semi-circle or block insulation with coloring throughout to show that product is asbestos free.

Odor: Odorless.

Solubility: Nil

MATERIAL SAFETY DATA SHEET Thermo-12® Gold Calcium Silicate Insulation

Specific gravity (water=1): 0.24 to 0.27

Volatile Organic Content (VOC): None.

Melting point: 2192-2732 °F (1200-1500 °C)

Note: These physical data are typical values based on material tested but may vary from sample to sample

10. STABILITY AND REACTIVITY

Chemical Stability: Stable at room temperature.

Conditions to Avoid: Excessive heat > 2192 °F.

Materials to avoid: None.

Hazardous Decomposition Products: Does not burn.

11. TOXICOLOGICAL INFORMATION

Routes of entry: Inhalation, eye and skin contact, and ingestion.

Eye Irritation: May cause irritation to the eyes.

Skin Irritation: May cause irritation to the skin.

Inhalation: May cause irritation.

Ingestion; May be harmful.

Carcinogenicity: None

12. ECOLOGICAL INFORMATION

This product should not have impact on the environment.

13. DISPOSAL CONSIDERATIONS

Wear proper PPE found in section 8.

14. TRANSPORTATION INFORMATION

Follow the precautions indicated in the Handling and Storage Section, Section 7 of this MSDS.

US DOT Classification for highway: Not regulated

IATA/ICAO Shipping Description: Not regulated

IMO Shipping Description: Not regulated

15. REGULATORY INFORMATION

SARA Hazard Notification/Reporting

Immediate = NO

Fire = NO

Sudden Release of pressure = NO

Delayed = NO

Reactive = NO

SARA Title 313, Toxic chemicals: None.

Extremely hazardous substance (EHS): None.

SARA/OSHA Hazardous chemical reporting quantity (RQ): None.

TSCA: None.

RCRA Hazardous waste: None.

Prop 65 Chemicals: None

WHMIS: D2B Irritant

EINECS: Irritant

MATERIAL SAFETY DATA SHEET Thermo-12® Gold Calcium Silicate Insulation

Hazard symbols: Irritant, X

Risk phrases: R20, Harmful by inhalation; R22, Harmful if swallowed; R36, Irritating to eyes; and R37, Irritating to the respiratory system.

Safety phrases S2, Keep out of reach of children, S36, Wear suitable protective clothing; S39, Wear eye/face protection; and S51, Use only in well-ventilated areas.

16. OTHER

National Fire Protection Association (NFPA)
Hazardous Materials Identification System (HMIS)

NFPA	HMIS	Rating Scale
1 – Health	1 – Health	0 Least
0 – Flammability	0 – Flammability	1 Slight
0 – Instability	0 – Reactivity	2 Moderate
0 – Instability	0 – Reactivity	3 High
	D – PPE	4 Severe

Prepared by: Dennis E. Belau
Newport Consulting
ncsafetyfirst@comcast.net

Reviewed by Tom Whitaker
IIG Technical Services

DISCLAIMER: Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, Industrial Insulation Group, LLC (company) makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will the company be responsible for damages of any nature whatsoever resulting from the use of or reliance upon Information. No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which information refers.



Industrial Insulation Group, LLC

A Calsilite/Johns Manville Joint Venture

MATERIAL SAFETY DATA SHEET

Thermo-12® Gold Calcium Silicate Insulation