

**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

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MSDS ID: 20501        Revision 1.0.7

**2. COMPOSITION INFORMATION ON INGREDIENTS**

| <u>Component</u>           | <u>CAS #</u> | <u>EINECS #</u> | <u>OSHA PEL/<br/>TWA (mg/m<sup>3</sup>)</u> | <u>ACGIH TLV/<br/>TWA (mg/m<sup>3</sup>)</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 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.

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**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

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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

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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     |

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**Industrial Insulation Group, LLC**

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