



## MATERIALS SAFETY DATA SHEET

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### Section 1 – Product Name

Common Name: Fired Silica Brick  
Intended Use: Refractory Material  
Product Name: INSBCO

### Section 2 – Composition and Information on Ingredients

#### Chemical characterization

**Description:** Mixture of the substances listed below with nonhazardous additions.

Components:		
14808-60-7	crystalline silica (quartz)	60-100%
1305-62-0	calcium dihydroxide	2.5-5%

Additional information: For the wording of the listed risk phrases refer to section 16

### Section 3 – Hazards Identification

**Hazard description:** Toxic

**Medical conditions aggravated by exposure to the product:** Asthma, chronic lung disease, and skin irritation.

**Carcinogenicity Information:** Crystalline silica is listed by IARC as a Group 1 Carcinogen "sufficient evidence of carcinogenicity in humans", and is listed by NTP as K, "Known to Be A Human Carcinogen".

**Information pertaining to particular dangers for man and environment:**

The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

May cause cancer by inhalation.

Irritating to respiratory system and skin.

Risk of serious damage to eyes.

**NFPA ratings (scale 0-4)**

Health = 0 Fire = 0 Reactivity = 0

### Section 4- First Aid Measures

**After inhalation:** Move to fresh air; consult doctor if needed.

**After skin contact:** Immediately wash with water and soap and rinse thoroughly.

**After eye contact:** Rinse opened eye for several minutes under running water.

**After swallowing:** This product is intended for industrial applications; in the unlikely event that this product is swallowed, consult a physician if any adverse medical conditions occur

### Section 5 – Fire Fighting Measure



**Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

**Protective equipment:** No special measures required.

### **Section 6 – Accidental Release Measures**

**Person-related safety precautions:** Not required.

**Measures for environmental protection:** No special measures required.

**Measures for cleaning/collecting:** Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

### **Section 7 – Handling and Storage**

**Handling:** Avoid direct contact with product or dusts from product by wearing protective clothing, using approved respiratory protection, and wearing gloves of the impermeable type.

**Storage:** The product should be stored in a dry location and away from sources of heat (furnaces, boilers, incinerators, etc.). Pallet protection such as shrink-wrap or stretch-wrap should be kept in place until the product is required for installation.

### **Section 8 – Exposure Control/Personal Protection**

**Engineering Controls:** Process enclosures, local exhaust ventilation, or other engineering process controls may be necessary to keep any air contaminants associated with this product within their TLV's. This is particularly true if user operation generates dust, vapor, or mist.

**Respiratory Protection:** Since this product is a proprietary mixture of unique ingredients, it does not have an established limit for airborne concentration (PEL or TLV), which workers can routinely be exposed to without suffering adverse health effects. This MSDS is prepared to alert customers and other users to the various components of the product and their relative quantity and toxicity in the product as it is provided. The user must review his/her own circumstances and then determine what is required to establish a respiratory protection program that meets OSHA 1910.134 requirements. If workplace conditions warrant respiratory protection, use MSHA/NIOSH approved units as listed in the current 29 CFR 1910.134 for the existing conditions. Some type of respiratory protection is recommended for even the best conditions. Actual respirator selection should be made after consultation with a competent health and safety professional.

**Eye Protection:** Industrial-type safety glasses offer some protection. Goggles or full face-piece respirators offer more.

**Protective Gloves:** As needed to prevent direct skin contact.

**Other Protective Clothing or Equipment:** Wear clothing designed to limit direct exposure to product or dusts, vapors, or mists associated with product. If clothing becomes contaminated, it should be laundered before wearing again. Barrier skin creams may be applied to parts of the body not otherwise protected, if workers find this beneficial. Maintain good personal hygiene. Wash hands thoroughly before eating or drinking.

### **Section 9 – Physical and Chemical Properties**

#### **General Information**

<b>Form:</b>	Solid
<b>Color:</b>	According to product specification
<b>Odor:</b>	No specific odor.



**Change in condition**

**Melting point/Melting range:** 3115°F

**Boiling point/Boiling range:** Undetermined.

**Flash point:** Not applicable.

**Auto igniting:** Product is not selfigniting.

**Danger of explosion:** Product does not present an explosion hazard.

**Density:** 2.2 g/cm<sup>3</sup>

**Solubility in / Miscibility with Water:** Insoluble.

**Section 10 – Stability and Reactivity**

**Chemical Stability:** This product is stable under normal and/or anticipated conditions for shipping, storage and installation.

**Conditions to Avoid:** None

**Incompatible Material:** May react with strong acids, such as hydrofluoric acid. Chromic oxide may react with alkali at high temperatures under oxidizing conditions.

**Hazardous Decomposition or Combustion Products:** None

**Hazardous Polymerization:** Not Applicable

**Section 11 – Toxicological Information**

**Acute toxicity:**

**LD/LC50 values that are relevant for classification:**

**1305-62-0 calcium dihydroxide**

**Oral LD50 7340 mg/kg (rat)**

**Primary acute effects:**

**Skin contact:** No irritant effect.

**Eye contact:** No irritating effect.

**Sensitization:** No sensitizing effects known.

**Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations: Carcinogenic if inhaled.

**Section 12 – Ecological Information**

**Accident Release:** No information has been developed regarding the ecotoxicity or environmental fate of this product

**Section 13 – Disposal Considerations**

**Recommendation for Disposal of Product:**

As sold, this product is not RCRA hazardous. Final used condition must be evaluated prior to disposal. Dispose of waste product in accordance with Federal, State and Local regulations. Dust created during demolition of used product may contain crystalline silica.

**Recommendation for Disposal of Uncleaned Packaging:** Reuse, recycle or treat as industrial waste

**Section 14 – Transport Information**



DOT (Department of Transportation) Classification under 49 CFR 172.101: Not Regulated  
UN (United Nations) Number: Not Applicable  
NA (North American) Number: Not Applicable

**Section 15 – Regulatory Information**

**SARA 313 TOXIC CHEMICALS**

No material listed in the components in Section 2 of this MSDS is on the SARA 313 list

**SARA 302 EXTREMELY HAZARDOUS SUBSTANCES**

No material listed in the components in Section 2 of this MSDS is on the SARA 302 list.

**TSCA (Toxic Substances Control Act)**

This substance or all the ingredients of this product are on the Chemical Substances Inventory of the Toxic Substances Control Act (TSCA Inventory). The presence on this list does not require any legal reporting.

**WHMIS Classification**

Class D - Division 2 - Sub Division A

Untested mixture containing a very toxic material

Class D - Division 2 - Sub Division B

Untested mixture containing a toxic material

Class E - Untested mixture containing corrosive material

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

**Carcinogen categories**

**EPA (Environmental Protection Agency)**

None of the ingredients is listed.

**IARC (International Agency for Research on Cancer)**

14808-60-7	crystalline silica (quartz)	1
69012-64-2	amorphous silica	3
1309-37-1	iron oxide	3

**NTP (National Toxicology Program)**

14808-60-7	crystalline silica (quartz)	R
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**TLV (Threshold Limit Value established by ACGIH)**

14808-60-7	crystalline silica (quartz)	A2
1309-37-1	iron oxide	A4

**MAK (German Maximum Workplace Concentration)**

14808-60-7	crystalline silica (quartz)	1
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**NIOSH-Ca (National Institute for Occupational Safety and Health)**

14808-60-7	crystalline silica (quartz)	
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**OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

**Classification according to EU-guidelines**

**Hazard symbols:** Toxic



**Hazard-determining components of labeling:** crystalline silica (quartz)

**Risk phrases:**

May cause cancer by inhalation.

Danger of serious damage to health by prolonged exposure.

**Safety phrases:**

Avoid exposure - obtain special instructions before use.

When using do not eat or drink.

Do not breathe dust.

After contact with skin, wash immediately with plenty of soap and water

Wear suitable protective clothing and gloves.

In case of accident or if you feel unwell, seek medical advice immediately.

This material and its container must be disposed of as hazardous waste

**National regulations:**

The following ingredients are known in the state of California to be a cancer risk (Proposition 65):

14808-60-7 crystalline silica (quartz)

**Section 16 – Other Information**

This information and recommendations set forth herein are taken from sources believed to be accurate as of the date herein; however, CeramSource, Inc. makes no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability to any user thereof.