

1. Identification of product

Product identification on the label

Lynn Manufacturing, Inc. Insulating Fire Brick

Item Numbers: 3123P, 3123Q, 3123R, 3123T, 3126P, 3126Q, 3126R, 3126T, 3128P, 3128Q, 3128R, 3128T, 3130P, 3130Q, 3130R, 3130T, 3143P, 3143R, 3143T, 3146P, 3146R, 3146T, 3150P, 3150R, 3150T, IFK23A1, IFK23A2, IFK23A3, IFK26A1, IFK26A2, IFK26A, IFJ28A1, IFJ28A2, IFJ28A3, IFJ30A1, IFJ30A2, IFJ30A3

Other means of identification

Insulating Firebrick, Insulating Refractory Brick, IFB

Recommended use of the chemical

High Temperature Thermal Insulation

Name, address, and telephone number

Lynn Manufacturing, Inc.
15 Marion Street
Lynn, MA 01905
781.593.2500

Emergency phone number

1-800-733-3665 or 1-972-404-3228

For additional SDSs and to confirm this is the most current SDS for this product, please visit our website

www.lynnmfg.com/documentation or send a request to contactus@lynnmfg.com

2. Hazard Identification

Classification of the chemical in accordance with paragraph of §1910.1200

The U.S. Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (HCS) 2012 indicates that IARC Group 1 corresponds to OSHA HCS 2012 Category 1A carcinogen classification (see, e.g., §1910.1200, Appendix F, Part D).

Signal word, hazard statement(s), symbol(s) and precautionary statement(s) in accordance with paragraph (f) of §1910.1200

Under OSHA HCS 2012, crystalline silica (inhaled in the form of quartz or cristobalite from occupational sources) is classified as a GHS category 1A - Known human carcinogen.

Signal Words

DANGER

Hazard Statements

May cause cancer by inhalation.

Precautionary Statements

Do not handle until all safety instructions have been read and understood.

Use respiratory protection as required; see section 8 of the Safety Data Sheet.

If concerned about exposure, get medical advice.

Store in a manner to minimize airborne dust.

Dispose of waste in accordance with local, state and federal regulations.

Emergency Overview

Respirable dust from these products may contain crystalline silica, which is known to cause respiratory disease.

(See Section 11 for more information)



3. Composition / Information on Ingredients

Composition table

<u>COMPONENTS</u>	<u>CAS NUMBER</u>	<u>% BY WEIGHT</u>
Ceramic Matrics (consist of glass, mullite and anorthite)	NONE	95 - 99
Crystalline Silica	14808-60-7 or 14464-46-1	Up to 5

4. First-Aid measures

Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion

Eyes

Flush with large amounts of water for at least 15 minutes. Do not rub eyes.

Skin

Wash affected area gently with soap and water. Skin cream or lotion after washing may be helpful.

Respiratory Tract

Remove affected person to dust free location. See Section 8 for additional measures to reduce or eliminate exposure.

Gastrointestinal

Unlikely route of exposure.

Indication of immediate medical attention and special treatment needed, if necessary

5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Use extinguishing media suitable for type of surrounding fire

Special Protective Equipment and Precautions for Firefighters

NFPA Codes: Flammability: 0 Health: 1 Reactivity: 0 Special: 0

Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products):

None

6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures

Avoid creating airborne dust. Follow routine housekeeping procedures. Vacuum only with HEPA filtered equipment. If sweeping is necessary, use wet sweeping. Do not use compressed air for clean-up. Personnel should wear gloves, goggles and approved respirator.

Methods and materials for containment and cleaning up

Pick up large pieces and dispose in a closed container. Follow precaution stated in above section for clean up.

7. Handling and storage

Precautions for safe handling

Limit the use of power tools unless in conjunction with local exhaust. Use hand tools whenever possible. Frequently clean the work area with HEPA filtered vacuum or wet sweeping to minimize the accumulation of debris. Do not use compressed air for clean-up.

Conditions for safe storage, including any incompatibilities

Store in a manner to minimize airborne dust.

Empty containers

Product packaging may contain residue. Do not reuse.

8. Risk Management Measures / Exposures Controls / Personal Protection

OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available

EXPOSURE GUIDELINES			
MAJOR COMPONENT	OSHA PEL	ACGIH TLV	MANUFACTURER'S REG
Crystalline Silica	0.05 mg/m3 (1)	0.025 mg/m3 (respirable dust)	NONE
(1) OSHA new Permissible Exposure Limit (PEL) for respirable crystalline silica is 0.05 mg/m3 (8-hr TWA), an Action Level (AL) of 0.025 mg/m3 (8-hr TWA), together with associated ancillary requirements listed under General Industry and Maritime Standard (29 CFR 1910.1053) and Construction Standards (29 CFR 1910.1153).			
OTHER OCCUPATIONAL EXPOSURE LEVELS (OEL) Ontario Canda OEL - Silica, Crystalline: Quartz/Tripoli = 0.1 mg/m3 (R); Cristobalite = 0.05 mg/m3 (R). Industrial hygiene standards and occupational exposure limits vary between countries and local jurisdictions. Check which exposure levels apply to your facility and comply with local regulations. If no regulatory dust or other standards apply, a qualified industrial hygienist can assist with a specific workplace evaluation including recommendations for respiratory protection.			

Appropriate Engineering Controls

Use engineering controls, such as ventilation and dust collection devices, to reduce airborne particulate concentrations to the lowest attainable level.

Individual protection measures, such as personal protective equipment

PPE - Skin

Wear full body clothing, gloves, hat, and eye protection as necessary to prevent skin irritation. Washable or disposable clothing may be used. If possible, do not take unwashed work clothing home. If soiled work clothing must be taken home, employers should ensure employees are trained on the best practices to minimize or avoid non-work dust exposure (e.g., vacuum clothes before leaving the work area, wash work clothing separately, rinse washer before washing other household clothes, etc.).

PPE – Eye

As necessary, wear goggles or safety glasses with side shields.

PPE – Respiratory

When it is not possible or feasible to reduce airborne crystalline silica or particulate levels below the appropriate PEL/OEL through engineering controls, or until they are installed, employees are encouraged to use good work practices together with respiratory protection. Before providing respirators to employees (especially negative pressure type), employers should 1) monitor for airborne crystalline silica and/or dust concentrations using appropriate NIOSH analytical methods and select respiratory protection based upon the results of that monitoring , 2) have the workers evaluated by a physician to determine the workers' ability to wear respirators, and 3) implement respiratory protection training programs. Use NIOSH-certified particulate respirators (42 CFR 84), in compliance with OSHA Respiratory Protection Standard 29 CFR 1910.134 and 29 CFR 1926.103, for the particular hazard or airborne concentrations to be encountered in the work environment. For the most current information on respirator selection, contact your supplier.

9. Physical and chemical properties

Appearance	Solid Brick or Block
Odor	Not applicable
Odor Threshold	Not applicable
pH	Not applicable
Melting Point	2750°F to 3660°F (refer to specific product data sheets)
Initial Boiling Point	Not applicable
Flashpoint	Not applicable
Evaporation Rate	Not applicable
Flammability	Not applicable

Upper/Lower Flammability or Explosive Limits	Not applicable
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Solubility	Not soluble in water
Relative Density	Not applicable
Relative Density	Not applicable
Partition Coefficient: n-Octanol/water	Not applicable
Auto-ignition temperature	Not applicable
Decomposition Temperature	Not applicable
Viscosity	Not applicable

10. Stability and Reactivity

Reactivity

None

Chemical Stability

This is a stable material.

Possibility of Hazardous Reaction

Will not occur.

Conditions to Avoid

None

Incompatible Materials

Powerful oxidizers; fluorine, manganese trioxide, oxygen disulfide

Hazardous decomposition products

None

11. Toxicological information

TOXICOKINETICS, METABOLISM AND DISTRIBUTION

Dust samples from these products have not been tested. They may contain respirable crystalline silica.

Acute Toxicity

Epidemiology

No studies have been undertaken on humans exposed to these products in occupational environments.

Crystalline silica

Exposure to crystalline silica can cause silicosis, and exacerbate pulmonary tuberculosis and bronchitis. IARC (Monograph vol. 68, 1997) concluded that "crystalline silica from occupational sources inhaled in the form of quartz or cristobalite is carcinogenic to humans (Group 1)", and noted that "carcinogenicity in humans was not detected in all industrial circumstances studied" and "may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity".

Toxicology

Crystalline silica

Some samples of crystalline silica administered to rats by inhalation and intratracheal instillation have caused fibrosis and lung cancer. Mice and hamsters, similarly exposed, develop inflammatory disease including fibrosis but no lung cancer.

International Agency for Research on Cancer and National Toxicology Program

IARC, in 1997, Monograph v.68, classified crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to human (Group 1).

The Ninth Annual Report on Carcinogens (2000), prepared by the National Toxicology Program (NTP), classified silica, crystalline (respirable size), as a substance known to be a human carcinogen.

12. Ecological information**Ecotoxicity (aquatic and terrestrial, where available)**

These products are not reported to have any ecotoxicity effects.

Bioaccumulative potential

No information for the product.

Mobility in soil

No information for the product.

Other adverse effects (such as hazardous to the ozone layer)

No information available for the product.

13. Disposal Considerations**Waste Management and Disposal**

To prevent waste materials from becoming airborne during waste storage, transportation and disposal, a covered container or plastic bagging is recommended.

Additional information

This product, as manufactured, is not classified as a listed or characteristic hazardous waste according to U. S. Federal regulations (40 CFR 261). Any processing, use, alteration or chemical additions to the product, as purchased, may alter the disposal requirements. Under U. S. Federal regulations, it is the waste generator's responsibility to properly characterize a waste material, to determine if it is a "hazardous" waste. Check local, regional, state or provincial regulations to identify all applicable disposal requirements.

14. Transport information**UN number.**

Hazard Class: Not Regulated United Nations (UN) Number: Not Applicable

Labels: Not Applicable North America (NA) Number: Not Applicable

Placards: Not Applicable Bill of Lading: Product Name

UN proper shipping name

Not applicable.

Transport hazard class(es)

Not applicable.

Packing group, if applicable

Not applicable.

Environmental hazards (e.g., Marine pollutant (Yes/No))

No.

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)

Not regulated.

Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises

Not applicable.

INTERNATIONAL

Canadian TDG Hazard Class & PIN: Not regulated

Not classified as dangerous goods under ADR (road), RID (train), IATA (air) or IMDG (ship).

15. Regulatory information**15.1 - United States Regulations**

SARA Title III: This product does not contain any substances reportable under Sections 302, 304, 313 (40 CFR 372). Sections 311 and 312 apply.

OSHA: Comply with Hazard Communication Standards 29 CFR 1910.1200 and 29 CFR 1926.59 and Respiratory Protection Standards 29 CFR 1910.134 and 29 CFR 1926.103.

TSCA: All substances contained in this product are listed in the TSCA Chemical Inventory

California: "Silica, crystalline (airborne particles of respirable size)" is listed in Proposition 65, The Safe Drinking Water and Toxic Enforcement Act of 1986 as a chemical known to the State of California to cause cancer.

Other States: Crystalline silica products are not known to be regulated by states other than California; however, state and local OSHA and EPA regulations may apply to these products. Contact your local agency if in doubt.

15.2 - International Regulations

Canadian WHMIS: Class D-2A Materials Causing Other Toxic Effects

Canadian EPA: All substances in this product are listed, as required, on the Domestic Substance List (DSL).

16. Other Information

SDS Prepared by Lynn Manufacturing, Inc.

Disclaimer

The information presented herein is presented in good faith and believed to be accurate as of the effective date of this Safety Data Sheet. Individuals may use this SDS to supplement other information gathered by them in their efforts to assure the health and safety of individuals and the proper use of the product. This summary of the relevant data reflects professional judgment; individuals should note that information perceived to be less relevant has not been included in this SDS. Therefore, given the summary nature of this document, Lynn Manufacturing, Inc. does not extend any warranty (expressed or implied), assume any responsibility, or make any representation regarding the completeness of this information or its suitability for the purposes envisioned by the user.