

MEECO Manufacturing Company, Inc.

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name Castable Refractory Cement
Product Code 1611

MANUFACTURER:
MEECO MFG CO INC
9100 15th Pl S, Ste E
Seattle, WA 98108

Contact Information:
Telephone: (206) 262-8340
Fax: (206) 262-8343
Print Date: 09/02/19

2. HAZARDS IDENTIFICATION

CLASSIFICATION: Carcinogenicity, Category 2 Skin irritation, Category 3
Eye irritation, Category 2B Target organ toxicity (repeated),
Lungs - Category 1

LABELING:



Symbol: Health hazard

Signal word: Warning

Hazard statement: Suspected of causing cancer.

Precautionary statement: Excessive inhalation of dust will increase the risk of silcosis. Some medical studies have concluded that there is sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica in the form of quartz or cristobalite from occupational sources. Avoid prolonged exposure to dust. Provide adequate ventilation and use suitable respirators if dust conditions warrant.

3. COMPOSITION/HAZARDOUS INGREDIENTS

Ingredient:	CAS #	Percent	Exposure Limits
Alumina silicate	1302-93-8	25 - 40	OSHA PEL = 5mg/m ³ respirable dust ACGIH TLV = 2mg/m ³ respirable dust
Cristobalite	14464-46-1	<10	OSHA PEL = 1/2[(10mg/m ² /%Silica+2)] resp dust ACGIH TLV = 0.025mg/m ² respirable dust
Calcium Aluminate	65997-16-2	15 - 30	OSHA PEL = 5mg/m ³ respirable dust ACGIH TLV = 10mg/m ³ total dust
Quartz	14808-60-7	35 - 50	OSHA PEL = [(10mg/m ² /%Silica+2)] resp dust ACGIH TLV = 0.025mg/m ² respirable dust

Some of the above ingredients are integral mineralogical constituents contained within the matrix of the raw materials. Note 1: ACGIH TLV for total dust with no asbestos and less than one percent crystalline silica.

MEECO Manufacturing Company, Inc.

SAFETY DATA SHEET

4. FIRST AID MEASURES

Eyes	Flush eyes thoroughly with water for at least 15 minutes. Consult physician.
Skin	Wash thoroughly with soap and water.
Ingestion	No adverse effects anticipated by swallowing.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Seek medical attention.

5. FIRE FIGHTING MEASURES

Fire and Explosion Hazards	Non-combustible and will not contribute to the intensity of a fire.
Flash Point and Method	Not Applicable.
Flammable Limits	Not Applicable.
Autoignition Temperature	Not Applicable.
Extinguishing Media	As appropriate for the surrounding fire.
Fire Fighting Equipment	As appropriate for the surrounding fire.

6. ACCIDENTAL RELEASE MEASURES

Spill/Leak Procedures	Reuse any spilled material where possible. Carefully scoop material into a suitable container. If conditions warrant, clean-up personnel should wear approved respiratory protection, gloves, and goggles to prevent irritation from contact and/or inhalation. Spilled material poses no threat to the environment. See section 12.
-----------------------	--

7. HANDLING AND STORAGE

Handling	No special handling.
Storage	Contact with water will cause material to set-up and become unusable.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Ventilation	Provide adequate general ventilation and local ventilation to control mist and/or dust levels below the TLV.
Personal Protective Equipment	
Eyes	Goggles.
Skin	Long sleeve clothing.
Inhalation	Dust mask.
Other	Gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point	Not Applicable.
Vapor Pressure	Not Applicable.
Vapor Density	Not Applicable.
Solubility in Water	Slight.
Specific Gravity (H ₂ O = 1)	1.4
Melting Point	>2400°F
pH	11.5 (Aqueous Slurry)

MEECO Manufacturing Company, Inc.

SAFETY DATA SHEET

10. STABILITY AND REACTIVITY

Chemical Stability	Stable.
Incompatible Materials and Conditions to Avoid	None.
Hazardous Polymerization	Will not occur.
Hazardous Decomposition	Will not occur.

11. TOXICOLOGICAL INFORMATION

There are no known health effects that can arise from the as-manufactured product. There is no evidence to suggest that the product itself is carcinogenic.

12. ECOLOGICAL INFORMATION

Product is virtually insoluble and immobile and poses no threat to the environment if accidentally released on land or into water.

13. DISPOSAL CONSIDERATIONS

Product as-manufactured is not considered a hazardous waste. Customers are advised to evaluate any changes to the product that may occur by the introduction of substances or operating conditions outside the control of the vendor.

14. TRANSPORT INFORMATION

Product is not a DOT Hazardous Material and contains no DOT Hazardous components.

15. REGULATORY INFORMATION

Section 2 lists OSHA exposure limits for chemicals considered by OSHA to be air contaminants.

16. OTHER INFORMATION

Although reasonable care has been taken in the preparation of the information contained herein, MEECO MFG CO INC extends no warranties, makes no representations and assumes no responsibility as to the accuracy or suitability of such information for application to purchaser's intended purposes or for consequences of its use.

WARNING: This product may contain respirable crystalline silica; a chemical known to the State of California to cause cancer.

Health Hazard	2 - Moderate
Flammability Hazard	0 - Minimal
Reactivity Hazard	0 - Minimal
Personal Protection	B - Glasses, gloves