



Material Safety Data Sheet
 May be used to comply with
 OSHA's Hazard Communication Standard.
 29 CFR 1910.1200. Standard must be
 Consulted for specific requirements.

U.S. Department of Labor
 Occupational Safety and Health Administration
 (Non-Mandatory Form)
 Form Approved
 OMB No. 1218-0072

IDENTITY (As used on Label and List)

MONOLITH CRUCIBLE

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name: Orgo-Thermit, Inc.	Emergency Telephone Number: 800-424-9300
Address (Number, Street, City, State and ZIP Code) 3500 Colonial Drive North Manchester, NJ 08759	Telephone Number for Information: 732-657-5781
	Date Prepared: Revised 1-11-11
	Signature of Preparer (optional)

Section II – Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity: Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
White inert refractory material in a steel cone shell. No Odor				

14808-60-7	Silica, crystalline*
7631-86-9	Silica, amorphous
1344-28-1	Aluminum Oxide
*See note under Section VI	

Section III – Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H2O = 1)	2.7-3.0
Vapor Pressure (mm Hg.)	N/A	Melting Point (°F)	>3200°F
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A

Solubility in Water - **Insoluble**

Appearance and Odor – **White inert refractory material in a steel cone shell. No Odor**

Section IV – Fire and Explosion Data

Flash Point (Method Used) – N/A	Flammable Limits - N/A This product is non-flammable and will not support combustion.	LEL	UEL
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Extinguishing Media – **N/A**

Special Fire Fighting Procedures – **In case of fire, water should be used to keep containers cool. If containers have Thermit Powder or Steel in them use only SAND NOT WATER**

Unusual Fire and Explosion Hazards – **N/A**

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid – Stable; no known conditions to avoid
	Stable	X	

Incompatibility (*Materials to Avoid*): **No known incompatible materials**

Hazardous Decomposition or Byproducts: **None known**

Hazardous Polymerization	May Occur		Conditions to Avoid – No known conditions to avoid
	Will Not Occur	X	

Section VI – Health Hazard Data

Route(s) of Entry: Inhalation: **None know to company** Skin: **None know to company** Ingestion: **None know to company**

Health Hazards (*Acute and Chronic*):

Effects of Overexposure:

***This product contains crystalline silica. Prolonged exposure to dust may cause silicosis, a progressive pneumoconiosis, or other respiratory diseases. International Agency for Research on Cancer (IARC) has classified crystalline silica as a 2A carcinogen. Their study concluded that sufficient evidence for carcinogenicity exists in experimental animals and that limited evidence for carcinogenicity exists in humans.**

Dust from this product at any stage of its use or during tear-out after service may, especially on long exposure, lead to lung disease unless respiratory protection is employed. Approved dust respirators (in accordance with 29 CFR Part 134) should be worn at any time that refractories are torn out after service. While a respiratory hazard and/or nuisance dust may exist from the product itself, other foreign substances may warrant additional precautions during the tear-out and disposal.

Carcinogenicity: **Silica, crystalline** NTP: **Silica, crystalline** IARC Monographs: **Silica, crystalline** OSHA Regulated: **Silica, crystalline**

With the exception of crystalline silica, no ingredient in this product is found on the Federal OSHA, NTP or IARC list of carcinogens.

Signs and Symptoms of Exposure: **N/A**

Medical Conditions

Generally Aggravated by Exposure: **N/A**

Emergency and First Aid Procedures:

Skin: Wash thoroughly with soap and water.

Inhalation of dust: Remove to fresh air.

Eyes: Flush with water for 15 minutes and get medical help.

Section VII – Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled:

Use broom and shovel or similar equipment to clean up.

Avoid generating dust, and if dust is generated, see “Normal Use”

Waste Disposal Method:

Dispose of according to Local/ State/ Federal rules and regulations

Precautions to be taken in Handling and Storing:

Normal Storage and Handling: Inert ceramic shape. See section IX regarding special precautions.

Normal Use: If material is cut, machined, ground or crushed, so that dust is generated, use approved dust respirators

To keep dust levels below recommended TLV/PEL levels. See OSHA 29CFR1910.1000 (Air Contaminants),

and 29CFR1910-94 (Ventilation)

Section VIII – Personal Protection Information

Respiratory Protection (*Specify Type*): **NIOSH approved dust respirator for exposures above PEL/TLV.**

Ventilation: Sufficient ventilation should be used to insure exposures below the PEL/TLV	Local Exhaust: N/A	Special: Precautions to be Taken in Handling and Storage: Store in dry location. If shape becomes damp or absorbs moisture, it may explode or spall upon rapid heat-up to temperatures above 212 ^o F.
	Mechanical (<i>General</i>) N/A	Other: Steel-toed safety shoes recommended

Protective Gloves: Recommended. Shapes may have sharp edges or be abrasive to skin.	Eye Protection: Recommended.
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Other Protective Clothing or Equipment: **N/A**

Work/Hygienic Practices: **N/A**
