

SAFETY DATA SHEET

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier Fired clay-bonded Induction clay graphite crucible		[WHMIS Classification]	
Product Use Crucibles are used in the Foundry Industry for containing the melting of metals for castings			
Manufacturer's Name Bay State Crucible Co.		Supplier's Name	
Street Address 740 West Water Street		Street Address	
City Taunton	Province MA	City	Province
Postal Code 02780	Emergency Telephone 1-800-222-1222	Postal Code	Emergency Telephone
Date MSDS Prepared 9/23/2015	MSDS Prepared By		Phone Number 508-824-5121

SECTION 2 — HAZARDOUS COMPONENTS

Description:	Fired clay-bonded silicon carbide/graphite refractory articles
Composition:	None of the components are classified as hazardous in any jurisdiction.

SECTION 3 — HAZARDS IDENTIFICATION

Emergency overview: The components of these products are not classified as hazardous.
Chronic health effects: None
Short-term exposure effects: None
Physical hazards: None
Potential hazards during use: May release dust if products are broken or otherwise damaged through Mishandling. Danger of burns through mishandling when products are in use at high temperatures Risk of product fragments breaking off during heat up if product is stored in damp conditions.

SECTION 4 — FIRST AID MEASURES

Skin Contact: Mechanical irritation to skin due to dust exposure; severe burns if bodily contact is made with hot crucible First Aid: Remove contaminated clothing. Wash area of dust contact thoroughly with water. Seek medical attention
Eye Contact: Irritation to eyes due to dust exposure. First Aid: Wash eyes immediately with water. Do not rub eyes. Seek medical attention.
Inhalation: Dryness in the throat or coughing due to dust exposure First Aid: Move to fresh air area. If symptoms persist seek medical attention.
Ingestion: Possible stomach aches due to dust ingestion. First Aid: Seek medical attention.

SECTION 5 — FIRE FIGHTING MEASURES

These products are non-flammable. Packaging and surrounding materials may be combustible. The products do not react adversely with any extinguishing media. Use extinguishing agent suitable for packaging and other materials stored nearby

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal Precautions: Ensure good ventilation in working area. Wear proper PPE.
Environmental Precautions: Clean up any broken pieces and dust to ensure material does not enter drainage.
Clean up: If vacuuming, the vacuum cleaner should be equipped with a high efficiency particulate filter. Use wet sweeping if not using vacuuming to clean the work areas. Do not use compressed air.

SECTION 7 — HANDLING AND STORAGE

Handling: Avoid damaging the crucibles as this may create dust. Larger crucibles are very heavy and proper handling should be taken to avoid personal injury. <u>Appropriate lifting & handling equipment is recommended for this purpose.</u>
For safe & efficient use of Crucibles, work practices with the recommendations described in the 'Care & Use of Crucibles leaflet, available from the manufacturer.
Storage: Store in dry conditions.

SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure limits and guidelines: Recommendations for exposure limits have been made by the National Institute for Occupational Safety and Health (NIOSH) and the American Conference of Governmental Industrial Hygienists (many jurisdictions have exposure limits and control guidelines for substances not listed elsewhere as hazardous - consult and comply with local regulations where they exist):
Exposure Controls: Where technically and economically feasible, use engineering controls. These may include local exhaust ventilation & equipment to remove airborne dust.
Personal Protective Equipment: Respiratory Protection: Wear approved respirator when cleaning out used product that may create dust concentrations above the exposure limit. Hand Protection: Wear protective gloves. Eye Protection: Wear safety glasses. Skin Protection: Wear foundry grade protective garment and safety shoes when using the product.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State Black/Gray Solid (may be coated with paint)	Odor None	Odor Threshold (ppm) Not applicable
Flash Point Not- Flammable	Vapor Density (air = 1)	Vapor Pressure (mmHg) Not applicable
Evaporation Rate Not applicable	Boiling Point (° C) Not applicable	Freezing Point (° C) Not applicable
Ph Not applicable	Coefficient of Water/Oil Distribution Not applicable	[Solubility in Water] None

SECTION 10 — STABILITY AND REACTIVITY

Stability: Stable under normal working conditions
Conditions to Avoid: Rapid heating of damp crucible (Damp storage conditions)
Materials to Avoid: None
Hazardous Decomposition Products: When using fluxes & other metallurgical treatment chemicals with the product, chemical decomposition of the product is possible.

SECTION 11 — TOXICOLOGICAL INFORMATION

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Effects of Acute Exposure No known effect. Dust generated from damaged product may contain small amounts of crystalline Silica. Crystalline silica is present as a natural impurity in some of the product components, and may be Generated in small quantities within the product during extended use. Long term exposure to Reparable crystalline silica may cause lung disease, including silicosis, and an increased risk of developing lung cancer.	
Effects of chronic exposure	
Irritancy of Product	
Skin sensitization: No known effect. Possible mechanical irritant effect of damaged crucible dust.	Respiratory sensitization
Carcinogenicity-IARC	Carcinogenicity - ACGIH
Reproductive toxicity	Teratogenicity
Embrototoxicity	Mutagenicity
Name of synergistic products/effects	

[Aquatic Toxicity]

Waste Disposal

Special Shipping Information

TDG	Not Regulated	[DOT]	Not Regulated
[IMO]	Not Regulated	[CAO]	Not Regulated

[WHMIS Classification]	[OSHA]
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[SERA]	[TSCA]

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