

# SAFETY DATA SHEET

## SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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

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| 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<br>Risk of product fragments breaking off during heat up if product is stored in damp conditions. |
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|   |

## SECTION 4 — FIRST AID MEASURES

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| Skin Contact:<br>Mechanical irritation to skin due to dust exposure; severe burns if bodily contact is made with hot crucible<br>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.<br>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<br>First Aid: Move to fresh air area. If symptoms persist seek medical attention.  |
| Ingestion: Possible stomach aches due to dust ingestion.<br>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. Appropriate lifting & handling equipment is recommended for this purpose.

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

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

## SECTION 12 — ECOLOGICAL INFORMATION

[Aquatic Toxicity]

## SECTION 13 — DISPOSAL CONSIDERATIONS

Waste Disposal

## SECTION 14 — TRANSPORT INFORMATION ( NOT REGULATED )

Special Shipping Information

TDG Not Regulated

[DOT] Not Regulated

[IMO] Not Regulated

[ICAO] Not Regulated

## SECTION 15 — REGULATORY INFORMATION ( N/A )

[WHMIS Classification]

[OSHA]

[SERA]

[TSCA]

## SECTION 16 — OTHER INFORMATION