
MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Ceramic Super Stones
General Use: Industrial Use
Product Description: Alumina fiber based abrasive stones

SUPPLIER NAME: INFORMATION PHONE:
BORIDE Engineered Abrasives 1(231) 929-2121
2615 Aero Park Dr. EMERGENCY PHONE:
Traverse City, MI 49686 1(231) 922-1959

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	CAS	wt%	OSHA PEL	ACGIH TLV
Alumina (AL2O3)	1344-28-1	68 - 73	15mg/m ³	10mg/m ³
Silica (SiO ₂)	7631-86-9	12 - 13	<u>10mg/m³</u> %SiO ₂ +2	0.05mg/m ³
Epoxy Resin	25068-35-6	12 - 18	N/E	N/E

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: This material is not expected to cause physiological impairment at low concentration.

POTENTIAL HEALTH EFFECTS:

INHALATION: Inhaling dust may cause irritation.
EYE CONTACT: May cause irritation.
SKIN CONTACT: May cause mild skin irritation. May cause typical epoxy skin sensitization.
CHRONIC: No known effects.

4. EMERGENCY AND FIRST AID MEASURES

INHALATION: If exposure to dust causes irritation or distress, remove subject to fresh air. Call a physician.
SKIN CONTACT: Immediately flush skin with soap and plenty of water. Remove contaminated clothing. Wash clothing before reuse.

- EYE CONTACT:** Immediately flush eyes with plenty of water for at least 15 minutes. Remove any contact lenses to ensure thorough flushing. Call a physician.
- INGESTION:** If swallowed, it is not necessary to induce vomiting. Get medical attention immediately.
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5. FIRE-FIGHTING MEASURES AND EXPLOSION HAZARD DATA

- FLASH POINT:** 204 – 302 degrees C
- FLAMMABLE LIMITS:** Lower: Not applicable. Upper: Not applicable
- AUTOIGNITION TEMPERATURE:** 469 degrees C
- EXTINGUISHING MEDIA:** Use carbon dioxide or dry chemical for small fires: Universal foam or water spray for large fires.
- SPECIAL FIRE FIGHTING PROCEDURES:** Fire fighters should be provided with normal protective equipment and positive-pressure self-contained breathing apparatus.
- UNUSUAL FIRE AND EXPLOSION HAZARDS:** To reduce potential explosion hazard, avoid dispersion of dust in air.
- HAZARDOUS DECOMPOSITION PRODUCTS:** May generate CO when heated to burning.
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6. ACCIDENTAL RELEASE MEASURES

- GENERAL:** Eliminate all ignition sources. Consult an expert on disposal of the recovered material. Ensure disposal is in compliance with government requirements and ensure conformity of local disposal regulations. Notify the appropriate authorities immediately. Take all additional action necessary to prevent and remedy the adverse effects of the spill.
- LAND SPILL:** Sweep up or shovel into suitable containers. Prevent materials from entering waterways.
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7. HANDLING AND STORAGE:

- PRECAUTIONS:** Avoid breathing dust. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Use with adequate ventilation. Wash thoroughly after handling and before eating, drinking or smoking. Remove contaminated clothing promptly and clean thoroughly before reuse. Keep container upright and closed to prevent leak of dust. Keep out of reach of children and away from foods.
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8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

ENGINEERING CONTROLS (VENTILATION): Use local ventilation in places where dust can be released into the workplace air. Keep dust concentration below recommended TLV.

ACGIH TLV = Not listed for product as a whole. Use 10 mg/m³.

OSHA PEL = Not listed for product as a whole. Use 10 mg/m³.

PERSONAL PROTECTION (for high concentrations of dust)

RESPIRATORY: Wear a dust respirator.

PROTECTIVE GLOVES: Wear rubber or synthetic gloves.

EYE PROTECTION: Wear safety goggles or equivalent eye protection.

OTHER: Wear appropriate protective clothing to prevent skin contact.

WORK/HYGIENIC PRACTICES: Always clean protective equipment and workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Stick, wheel and round bars

ODOR: No odor at room temperature.

VAPOR PRESSURE: Not applicable.

MELTING POINT: 60-90° C

SPECIFIC GRAVITY: 2.6 – 2.7 (water = 1)

BOILING POINT: Not applicable

SOLUBILITY IN WATER: Negligible

VAPOR DENSITY: Not applicable

pH: Not applicable

PERCENTAGE VOLATILE: Less than 1%

EVAPORATION RATE: Not applicable

10. STABILITY AND REACTIVITY

STABILITY: Stable at standard temperature and pressure.

HAZARD POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None known.

INCOMPATIBILITY: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: May generate CO when heated to burning.

11. TOXICOLOGICAL INFORMATION

ACUTE INHALATION EFFECTS: Shortness of breath, coughing.

EYE EFFECTS: May cause eye redness and irritation.

SKIN EFFECTS: May cause mechanical skin redness and itching or irritation; prolonged or repeated contact may also cause typical epoxy skin sensitization (allergic skin reaction).

ACUTE ORAL EFFECTS: Ingestion is not an expected route of industrial exposure. This material may be a stomach (gastric) irritant.

CHRONIC EFFECTS/CARCINOGENICITY: No data available. Not listed by IARC, NTP or OSHA as a carcinogen.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Land filling in a licensed facility is recommended. Dispose in accordance with federal, state and local regulations. The owner of the material is responsible for proper waste disposal.

14. TRANSPORT REGULATION

Not regulated.

15. REGULATORY INFORMATION (not meant to be all-inclusive)

SARA TITLE III: Product does not contain toxic chemicals subject to the reporting requirements of Section 302 or 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

FEDERAL RCRA HAZARDOUS WASTE: No.

REPORTABLE QUANTITY (RQ), UNDER U.S.: Not listed

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