



MATERIAL SAFETY DATA SHEET

MSDS #: 942

Date of Issue:5/02
Date of Revision: 09/09

SECTION 1 -- PRODUCT IDENTIFICATION

PRODUCT NAME: RIBSTONE

PRODUCT DESCRIPTION: Diamond tipped laminated composite polishing stick

FAMILY/CHEMICAL NAME: Carbon (diamond)

PRODUCT USE: Mold and die polishing.

MANUFACTURER/SUPPLIER: BORIDE Engineered Abrasives
2615 Aero Park Drive
Traverse City MI 49686-9101

BEA DOCUMENT NO: 942

ORIGINAL ISSUE DATE: May 2002

TELEPHONE NUMBER: 1(800) 662-0336

24-HOUR EMERGENCY NUMBER; 1(231) 922-1959

REVISION DATE: September 2009

SECTION 2 -- INGREDIENTS

MATERIAL	CAS #	WEIGHT %	TLV/PEL
Diamond	7782-40-3	3-10%	10 mg/m ³
Carbon/graphite fibers	Various	75-85%	NE
Cured epoxy resin	Withheld	10-20%	10 mg/m ³

Diamond tipped laminated composite polishing sticks may produce nuisance dust. OSHA sets TLV (threshold limit value) for nuisance dust at 10 mg/m³ for continuous exposure. NE = not established.



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SECTION 3 -- PHYSICAL DATA

PHYSICAL STATE, APPEARANCE, AND ODOR: Solid; silver/gray on one end. Remainder of the stick is color coded red (red sticks are blanks with no diamond tip), blue, silver or gold. Product has no odor.

ODOR THRESHOLD: Not applicable. **DENSITY:** Not available

VAPOR DENSITY: Not applicable. **BOILING POINT:** Not applicable.

VAPOR PRESSURE: Not applicable. **FREEZING POINT:** Not applicable.

EVAPORATION RATE: Not applicable. **PH:** Not applicable.

SOLUBILITY IN WATER: Not applicable. **MOLECULAR WEIGHT:** Not applicable.

VOLATILE ORGANIC COMPOUNDS: None.

SECTION 4 -- HEALTH HAZARD DATA

PRIMARY ROUTES OF EXPOSURE: During or after use, the dust produced from use of diamond tipped laminated composite polishing sticks may be inhaled, ingested or come in contact with eyes.

EXPOSURE LIMITS: Particulate not otherwise classified, use TLV of 10mg/m³ for diamond tipped laminated composite polishing sticks.

SIGNS AND SYMPTOMS OF EXPOSURE: No information is available on this product as a whole. The information presented is based on each of the components present.

EYES: Dust can cause irritation, redness and eye watering.

SKIN: N/A

INHALATION (Breathing): Nuisance dust may cause coughing and sneezing.

INGESTION (Swallowing): N/A

MEDICAL CONDITION AGGRAVATED BY EXPOSURE: Nuisance dust may aggravate pre-existing pulmonary conditions.

CARCINOGENICITY: None.

EMERGENCY FIRST AID PROCEDURES:

EYES: If irritation occurs, flush eyes with water for 15 minutes lifting upper and lower lids occasionally. Seek medical attention if irritation or pain persists.

SKIN: N/A

INHALATION (Breathing): If symptoms of pulmonary involvement develop (coughing, sneezing, shortness of breath) remove from exposure. If condition persists seek medical attention.



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SECTION 5 -- FIRE AND EXPLOSION HAZARD DATA

EMERGENCY RESPONSE GUIDE NUMBER: Not Applicable.

FLASH POINT: Not applicable.

FLAMMABLE LIMITS IN AIR: Not known.

AUTOIGNITION TEMPERATURE: Not applicable.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Not applicable.

FIRE FIGHTING PROCEDURES: No special requirements.

EXTINGUISHING MEDIA: Water, foam, dry chemical or CO₂.

HAZARDOUS COMBUSTION PRODUCTS: Complete combustion will produce carbon dioxide and carbon monoxide.

CONDITIONS OF FLAMMABILITY: Not Available.

SECTION 6 -- REACTIVITY DATA

STABILITY: Stable, not reactive with water.

INCOMPATIBILITY (Material & Conditions to avoid): None.

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: NA

SECTION 7 -- PREVENTIVE MEASURES

PRECAUTIONS FOR SAFE USE AND HANDLING:

HANDLING PRECAUTION: If usage conditions generate airborne dust, use in well-ventilated area and avoid breathing dust.

PERSONAL HYGIENE: Use good personal hygiene. Wash hands before eating or smoking. Do not shake clothing, rags or other items to remove dust.

SHIPPING & STORING PRECAUTIONS: Not Applicable.

SPILL PROCEDURES: Not applicable.

WASTE DISPOSAL METHODS: Dispose in accordance with federal, state, provincial and local regulations.



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SECTION 7 -- PREVENTIVE MEASURES (cont'd)

CONTROL MEASURES

EYE PROTECTION: Goggles or safety glasses with side shields are recommended.

PROTECTIVE GLOVES: Not required.

RESPIRATORY PROTECTION: Not normally required. Selection and use of respiratory protective equipment, if warranted, should be in accordance with OSHA General Industry Standard 29 CFR 1910.134 in the USA and with CSA Standard Z94.4-M1982 in Canada.

ENGINEERING CONTROLS: Provide process enclosure or local ventilation needed to maintain dust below applicable exposure limits.

OTHER PROTECTIVE EQUIPMENT: Hearing protection may be required if mechanical polishing devices are used with laminated composite sticks. See OSHA 29CFR 1910.95 for noise level statutory limits and hearing protection requirements.

SECTION 8 -- OTHER REGULATORY INFORMATION

TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: None.

DOT HAZARD CLASS: None.

DOT ID NUMBER: None.

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

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCE LIST: Not listed

SECTION 313 TOXIC CHEMICALS LIST: Not listed

FEDERAL RCRA HAZARDOUS WASTE: Not listed

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

EPA CERCLA: Not listed

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