

SECTION 1 -- PRODUCT IDENTIFICATION

IDENTITY (Trade Name): 7924 Hollow Spheres

SYNONYMS: Hollow Spheres

FAMILY/CHEMICAL NAME: Oxide, Glass

PRODUCT USE: Lightweight, inert filler. Dust resulting from use is classified by OSHA as inert or nuisance dust. Data provided pertains primarily to the dust produced during use. **IMPORTANT:** Hazards may change when this product is used in conjunction with solvents, cutting fluids or other chemicals. For more complete information, consult the material safety data sheets of chemical products used with Hollow Spheres.

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

ORIGINAL ISSUE DATE: May 22, 2015

TELEPHONE NUMBER: (231) 929-2121

24-HOUR EMERGENCY NUMBER: (231) 922-1959

SECTION 2 – HAZARDS IDENTIFICATION

PRIMARY ROUTES OF EXPOSURE: During use, dust may be inhaled or come in contact with skin or eyes.

POTENTIAL HEALTH EFFECTS:

ACUTE: Eyes: Dust can cause irritation, redness and eye watering.

Skin: No skin absorption hazard. May cause rash from mechanical irritation.

Inhalation (Breathing): Nuisance dust may cause coughing or sneezing.

Ingestion (Swallowing): Abrasive particles may cause irritation.

CHRONIC: Prolonged inhalation of inert dust can cause respiratory distress.

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

NFPA RATINGS: Health: 0; Flammability: 0; Reactivity: 0

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

MATERIAL	CAS #	WEIGHT %	PEL	EC#
Amorphous alumino silicate	1327-36-2	65 - 85%	10 mg/m ³	930-007-2
Mullite	1302-93-8	20 -30%	10 mg/m ³	930-007-2
Calcite	1317-65-3	0 - 5%	10 mg/m ³	930-007-2
Quartz*	14808-60-7	0 - 1%	10 mg/m ³	930-007-2

*Quartz is at or less than the analytical detection limit for XRD analysis (less than 1%). Any quartz is fused into the ceramic matrix and is not biologically available. Particle size analysis indicates 99% of the particles are greater than 20 micron with less than 0.5% being in the respirable size range. End use of hollow spheres may produce dust which is classified as inert or nuisance dust. OSHA sets TLV (threshold limit value) for nuisance dust at 10 mg/m³ for continuous exposure.

SECTION 4 – FIRST AID MEASURES

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

SKIN: Thoroughly wash affected area with soap and water and isolate from exposure. If irritation or rash persists, seek medical attention.

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

OTHER HEALTH RISKS: Mold and die polishing and grinding may create sound and vibration levels that could effect hearing and aggravate circulatory problems in the hands. Obtain medical evaluation and use proper protection.

SECTION 5 – FIREFIGHTING MEASURES

FLASH POINT: Non-flammable.

FLAMMABLE LIMITS IN AIR: Not Known.

AUTOIGNITION TEMPERATURE: Not applicable.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

FIRE FIGHTING PROCEDURES: Not applicable.

EXTINGUISHING MEDIA: Not applicable.

HAZARDOUS COMBUSTION PRODUCTS: None.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES: Sweep or shovel dust into closable container for disposal. Use a vacuum or wet vacuum.

METHODS FOR CONTAINMENT: Containment is not necessary.

SECTION 7 – HANDLING AND STORAGE

HANDLING: If use conditions generate airborne dust, use in well-ventilated area and avoid breathing dust. Dust should be removed by washing or vacuuming.

STORAGE: No special storage conditions required. Keep dry.

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

SECTION 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

MATERIAL	CAS #	WEIGHT %	PEL	Hazardous Ingredient (YES/NO)
Amorphous alumino silicate	1327-36-2	65 - 85%	10 mg/m ³	no
Mullite	1302-93-8	20 -30%	10 mg/m ³	no
Calcite	1317-65-3	0 - 5%	10 mg/m ³	no
Quartz	14808-60-7	0 - 1%	10 mg/m ³	no

PRECAUTIONS FOR SAFE USE AND HANDLING

HANDLING PRECAUTIONS: None known.

CONTROL MEASURES

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

PROTECTIVE GLOVES: Recommended but 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 U.S.A. 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: None.

SECTION 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE, APPEARANCE, and ODOR: Fine white/grey powder. No odor.

ODOR THRESHOLD: Not applicable.

SPECIFIC GRAVITY: 0.75 to 0.95

VAPOR DENSITY: Not applicable.

MELTING POINT: 1,200 – 1,400 °C.

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: No.

SECTION 10 – STABILITY AND REACTIVITY

STABILITY: Stable, not reactive with water.

INCOMPATIBILITY (material & conditions to avoid): Strong oxidizers.

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

SECTION 11 – TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: None known.

CARCINOGENS: Not a carcinogen.

RTECS Number: NA

INGESTION: Not hazardous.

INHALATION: Rat TC Lo: 200 m g/m 3/5H/28W (Intermittent) [Lungs, Thorax, or Respiration – Structural or functional change in trachea or bronchi; Lungs, Thorax, or Respiration - Chronic pulmonary edema Related to Chronic Data - death] (RTECS).

SECTION 12 – ECOLOGICAL INFORMATION

ECOTOXICITY: No information available.

PERSISTENCE AND DEGRADABILITY: No information available.

MOBILITY IN SOIL: No information available.

SECTION 13 – DISPOSAL CONSIDERATIONS

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

SECTION 14 -- TRANSPORTATION INFORMATION

DOT

PROPER SHIPPING NAME: None. HAZARD CLASS: None. ID NUMBER: None

Packaging Group: None. ER Guidebook #: None.

IATA Shipping Name: Not regulated as dangerous goods.

IMO Shipping Name: Not regulated as dangerous goods.

SECTION 15 -- REGULATORY INFORMATION

TSCA Inventory Status: Listed

ECHA REACH Candidate List: Not listed

EINECS Number: Not listed.

EC Number: 930-007-2

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

SECTION 16 -- ADDITIONAL INFORMATION

SDS creation date: May 22, 2015

SDS revision date: May 22, 2015

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