

MATERIAL SAFETY DATA SHEET

Section 1 - Product and Company Identification

Product Name

BeO - Beryllium Oxide Insulation Products

This MSDS applies to all bulk XacTpak catalog numbers with the number 4 in the position marked with an "X"

Example: ___ - _X__

These products are marked identifying them as having BeO in them.

Note: If not further processed, all products containing BeO conforms to the definition of an "article" and are exempt from 29 CFR 1910.1200 Hazardous Communication Regulation.

Company Name

Watlow Richmond
5710 Kenosha Street
Richmond, IL 60071 USA

Telephone Number

(815) 678-2211

Section 2 - Hazardous Ingredients

	C.A.S. #	TLV	PEL
BeO	1304-56-9	0.002m/M3	0.002m/M3

Section 3 - Physical Data

Appearance:	White or off-white
Specific gravity:	3.01
Melting point:	2547°C
Health rating:	2 (only if exposed to BeO directly)
Flammability rating:	0
Reactivity rating:	0
Specific gravity	0

Section 4 - Fire and Explosion Data

This product contains no fire and explosion hazard.

Section 5 - Physical Hazards (Reactivity Data)

Stability: Stable

Volatile beryllium hydroxide can be formed when firing solid BeO parts at high temperatures (over 1200°C) and in moist conditions.

Hazardous Polymerization will not occur.

Section 6 - Health Hazards

Effects of overexposure: Inhalation may cause berylliosis, a serious chronic lung disease, with cough, chest pains, shortness of breath, weight loss, weakness and fatigue.

Emergency and First Aid Procedures

Remove from exposure and consult a physician. There is no acute inhalation hazard. Handling of solid shapes presents no dermatitis or skin absorption problem.

Section 7 - Disposal Procedures

When handling BeO components, guard against the possibility of and crushing action. If grinding or crushing should occur, vacuum up the particles and properly dispose of them wearing respiratory and protective clothing. Vacuum equipment provided with an absolute filter (HEPA) must be used. Dry sweeping should not be used.

Beryllium oxide scrap should be landfilled. Because there is a potential inhalation hazard of handling this material as a discarded powder, the following practices are recommended: seal in two plastic bags, place in DOT container approved for poison B compounds, label the outer container with the appropriate DOT hazard warning labels, and to an approved hazardous waste disposal site.

Section 8 - Special Protection Information

No protective equipment or clothing is required when handling solid forms. Approved high efficiency cartridge respirator or supplied air mask is required—Beryllium in air concentrations that exceed OSHA standards. Personnel performing operations where there are exposures to dust, mist, or fumes should be provided full body protective clothing. All contaminated clothing should be placed in sealed containers and sent to special laundry facilities.

Provide adequate local exhaust ventilation when performing operations such as machining, grinding, laser trimming; sand blasting, chemical etching, etc. where respirable dusts, mists, or fumes are generated. The machining of Beryllia under liquid lubricant/coolant can potentially generate an elevated airborne. The recycling of liquid coolant containing divided Beryllia in suspension can result in the concentration building to a point where the particulate becomes airborne during use.



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Section 8 - Special Protection Information (Con't)

A centrifuge can be installed in-line if this becomes a problem. Care should be taken when servicing air cleaning equipment and in cleaning muffles, furnaces, etc. prior to cleaning. Operations generating airborne material must be air sampled to determine employee exposure levels. Medical surveillance should be conducted for employees where warranted by exposure data.

Do Not Inhale Fumes

Beryllium is present in this product at a concentration of 0.1 percent or more and is classified as a possible carcinogen by:

- 1) National Toxicology Program
National Technical Info. Service
5285 Port Royal Road
Springfield, VA 22161

- 2) International Agency for Research on Cancer (IARC)
World Health Organization
49 Sheridan Street
New York, NY 12210

- 3) OSHA

Disclaimer Notice

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