

## MATERIAL SAFETY DATA SHEET

**Disclaimer:** The information and recommendations herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to information combined herein.

### SECTION I - NAME & PRODUCT

TRADE NAME, COMMON NAME OR SPECIFICATION:

**PYREX (Code 77-40)**

CHEMICAL FAMILY OR PRODUCT TYPE:

**Borosilicate Glass Granules**

**CAS Number: 65997-17-3**

### SECTION II - COMPOSITION

<u>CHEMICAL NAME</u>	<u>%</u>	<u>COMMON NAME</u>	<u>OSHA PERMISSIBLE EXPOSURE LIMIT</u>	<u>CARCINOGEN* Y/N</u>
Silica (SiO <sub>2</sub> )	65-90	Sand	15Mg/M <sup>3</sup>	N
Boron Oxide	5-15	Boron Trioxide	N/A	N
Aluminum Oxide	<u>1-5</u>	Alumina	N/A	N
Sodium Oxide	1 - 5	Calcined Soda	N/A	N

### SECTION III - PHYSICAL AND CHEMICAL DATA

BOILING POINT: N/A	MELTING POINT: 821 C	SPECIFIC GRAVITY (BULK): 2.23g/cm <sup>3</sup>
VAPOR PRESSURE: N/A	PERCENT VOLATILE BY VOL.: N/A	VAPOR DENSITY: N/A
EVAPORATION RATE: N/A	SOLUBILITY IN WATER: NIL	SOLUBILITY IN ALCOHOL: NAIF**
SOLUBILITY IN OTHER SOLVENTS: NAIF**	APPEARANCE & ODOR Odorless, clear glass or particulate	

### SECTION IV - FIRE & EXPLOSION HAZARD DATA

FLASH POINT: N/A	METHOD USED:	FLAMMABLE LIMITS:
EXTINGUISHING MEDIA: N/A		
SPECIAL FIRE FIGHTING PROCEDURES: N/A		

EXPLOSION POTENTIAL: N/A

### SECTION V - HEALTH HAZARD DATA

<u>PRIMARY ROUTE(S) OF ENTRY:</u>	<u>EFFECTS OF OVEREXPOSURE (EO) OR FIRST AID (FA):</u>
INHALATION: Acute: Upper respiratory tract irritation. Chronic: Possible mild-pneumoconiosis	Remove from exposure, seek medical attention
INGESTION: Boron poisoning can cause depression of circulation, persistent vomiting, diarrhea, and in severe cases shock & coma. Also possible severe irritation.	Seek medical attention
SKIN: Sodium oxide can be irritating to the skin	Wash with soap and water. Seek medical attention.
EYE: Possible irritation	Wash with large amounts of clean water and see a doctor. Do not rub, material may scratch eye.
GENERAL FIRST AID:  (Other Potential Health Risks: The free silica present in sand is converted into amorphous when melted into glass).	

### SECTION VI - SPILL, LEAK & DISPOSAL

1. Avoid generating dust, minimize contact with eyes, skin & upper respiratory tract.
2. In case of spills-vacuuming is preferred over sweeping, do not blow dust
3. Disposal method: Follow Federal, State and local regulations

### SECTION VII - Exposure Controls/ Personal Protection Information

1. Mechanical: N/A
2. Local Exhaust: Exhaust to maintain levels below PEL.
3. Safety Goggles
4. PVC Gloves
5. Respirator that is a NIOSH/MSHA Approved dust respirator should be worn.

<b>SECTION VIII - SPECIAL PRECAUTIONS &amp; COMMENTS</b>
Incompatibility ( Materials to avoid): Hydrofluoric acid and possibly Silicic Acid. Hazardous Decomposition or Byproducts: Possible metal oxide fumes.

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