

Material Safety Data Sheet

Used to comply with OSHA's Hazard Communication Standard 29 CFR 1910.1200

IDENTITY (As used on label or list) Glass and Colored Glass	Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.
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SECTION I

Manufacturer's Name Spectrum Glass Co., Inc.	Emergency Telephone Number (425) 483-6699
Address (Number, Street, City, State, and Zip Code) 24105 Snohomish-Woodinville Road, Woodinville, WA 98072	Telephone Number for Location Same as Above
Date Created 1996-01-18	Date Revised 2002-11-12
	Prepared by:

SECTION II - Hazardous Ingredients/Identity Information

Hazardous Components	OSHA PEL/TWA	ACGIH TLV-TWA	Other Limits Recommended	% (optional)
Glass Dust	10 mg/m ³	0.05 mg/m ³ (crystalline silica)	NA	

NOTE: The chemicals used to produce this product are in a glass matrix and are, therefore, not available to the environment unless the product is heated above 2,000 F or ground to an extremely fine particle size.

Many of Spectrum's products are made with metal oxides. While the metals are bound up in a glass matrix, grinding to an extremely fine mesh size can liberate some of the metals in the glass. Normal grinding will generally not produce glass flour or powder fine enough to liberate any metals. In any event a NIOSH (National Institute of Occupational Safety & Health) approved dust mask, at a minimum, should be worn during grinding. Spectrum recommends the use of a respirator outfitted with a HEPA filter. HEPA (High Efficiency Particulate Absolute) filters provide the greatest measure of personal protective equipment. Good exhaust ventilation is also recommended. Use a water bath or water-grinding wheel when grinding glass. Keep your work area as clean as possible and free of glass debris.

SECTION III - Physical/Chemical Characteristics

Boiling Point Approximately 2500 to 3100 °F	Specific gravity NA
Vapor Pressure (mm Hg) NA	Melting Point Approximately 1000 to 1400 F (compositionally related)
Vapor Density (Air = 1) NA	Evaporation Rate (Butyl Acetate = 1) NA
Solubility in Water Insoluble	Appearance and Odor NA

SECTION IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammability Limits	Lower Explosion Limit	Upper Explosion Limit
NA			
Extinguishing Media	Special Fire Fighting Procedures	Unusual Fire and Explosion Hazards	Other
NA			

SECTION V - Reactivity Data

Stability	Conditions to Avoid
Stable	Can be etched or dissolved in hydrofluoric acid (HF)
Incompatibility (Materials to Avoid)	Conditions of Incompatibility to Avoid
NA	NA
Hazardous Decomposition or Byproducts	Hazardous Decomposition or Byproducts to Avoid
NA	NA
Hazardous Polymerization	Conditions to Avoid
NA	NA

SECTION VI - Health Hazard Data

Can Material be Inhaled if ground into a powder?	Can this Product damage Skin?	Can this Product be Eaten or Ingested?	Can this Product get into your Eyes?
Yes, this product can cause respiratory damage if you breathe a high level of glass dust or powder.	Yes, cuts to the skin occur if you handle this product improperly.	Not under normal circumstances. Ingestion can occur if you swallow glass dust during grinding.	Yes. This product can do severe damage to the eye if you do not wear proper eye protection.

Is this Product Carcinogenic? (Causes Cancer)	Signs and Symptoms of Over exposure?	Medical Conditions Aggravated by Exposure
No	Sneezing, runny eyes, and coughing are all signs that overexposure to glass dust has occurred.	Can aggravate existing pulmonary diseases such as emphysema if exposed to high concentrations of glass dust. High concentrations of inhaled glass dust can lead to pulmonary conditions such as silicosis.

Emergency and First Aid Procedures

If glass gets in eyes, wash immediately with large quantities of water. Until glass is completely removed, limit movement of eye since corneal tearing can result. Consult a physician.

Use standard first aid procedures for cuts and punctures. Wear puncture resistant gloves when handling glass.

SECTION VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled

Use care when handling glass shards. Glass shards can puncture or severely cut the skin.

Limit dusting as much as possible. Wear a dust mask or a respirator outfitted with a HEPA filter if dusting is a problem. Even when using water to hold down grinding dust, clean area (if water and glass dust are spilled) promptly. The water will evaporate leaving glass dust on the floor. The National Institute of Safety and Health considers glass, at low concentrations and larger particle sizes, a nuisance dust. At very small particle sizes (respirable range) and over prolonged exposures (months/years) breathing glass can cause pulmonary (lung) illness.

Waste Disposal Method

Minimize dusting as much as possible. Dispose of product according to Local, State, and Federal guidelines.

Precautions to be Taken in Handling and Storing

Avoid being cut. Use protective gloves when handling glass.

SECTION VIII - Control Measures

Is Respiratory Protection Necessary?	Is Ventilation Necessary?	Is there any Other Forms of Personal Protective Equipment Necessary?
Yes, if glass is ground and dusting becomes a problem. Wear a NIOSH approved HEPA respirator.	Only when dusting becomes a problem. Local exhaust ventilation would help when dusting is a problem.	Yes, wear puncture resistant gloves when handling or cutting. Wear eye protection when cutting or grinding. Goggles, safety glasses with side shields, or a complete face shield will protect your eyes. When handling large pieces (sheets) wear arm protection (gauntlets).

Work/Hygienic Practices: Food, beverages and smoking materials should not be in your work area. When grinding glass, wash hands before eating, drinking, smoking, or applying cosmetics.

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