



Viceroy Ceramics Inc.
11567 County Highway 110
Upper Sandusky, OH 43351

Telephone (814) 954-0724
www.viceroyceramics.com

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MATERIAL SAFETY DATA SHEET - BUBBLE GLASS™

SECTION 1: PRODUCT IDENTIFICATION

Product Name: Bubble Glass™ - All Grades
Manufacturer: Viceroy Ceramics Inc.
11567 County Highway 110
Upper Sandusky, OH 43351

Chemical Name: Glass, Glass Oxides
CAS Number: 65997-17-3

Primary Product Use: Construction Materials

SECTION 2: PRODUCT COMPOSITION

Composition: Proprietary formula composed of soda-lime, alternate glass compositions and materials used in the manufacture of glass.

<u>Ingredient</u>	<u>Chemical Formula</u>	<u>Typical wt% Range</u>	<u>CAS#</u>
Silicon Dioxide	SiO ₂	65 - 75	60676-86-0
Sodium Oxide	Na ₂ O	10 - 15	1313-59-3
Calcium Oxide	CaO	5 - 15	1305-78-8
Aluminum Oxide	Al ₂ O ₃	0 - 5	1344-28-1
Magnesium Oxide	MgO	0 - 5	1309-48-4
Potassium Oxide	KO ₂	0 - 5	12136-45-7

Note: Glass is used in the manufacture of Bubble Glass™. The composition of this material is an amorphous fusion of glass oxides and are not crystalline forms of free oxides. Therefore, no danger of silicosis exists.

SECTION 3: HAZARDS IDENTIFICATION

Main Hazards: No significant hazard.
Routes of Exposure: Skin or eye contact, ingestion, inhalation.
Eye Exposure: If material contacts eye, may cause reversible irritation.
Skin Exposure: If material contacts skin, may cause reversible irritation.
Systemic: Acute: If inhaled in large quantities, may cause reversible lung irritation.
Chronic: If inhaled in large quantities, may cause reversible lung irritation.
Reproductive and Developmental Toxicity: Material is not considered to be a reproductive or developmental toxicant.
Carcinogenicity: Material is not listed by NTP, IARC or OSHA as a carcinogen.
Medical Conditions Aggravated by Exposure: None known.
Hazard Symbols: Health:0 Flammability: 0 Reactivity: 0

SECTION 3: HAZARDS IDENTIFICATION (CONTINUED)

	OSHA Exposure Limits (PEL)	ACGIH Limits (TLV)
Inhalation: Nuisance Dust (particles not otherwise classified)	15 mg/m ³	10 mg/m ³
Nuisance Dust (respirable fraction)	5 mg/m ³	5 mg/m ³

SECTION 4A: FIRST AID MEASURES (SYMPTOMS)

Skin Contact:	There may be mild irritation at the site of contact.
Eye Contact:	There may be irritation and redness.
Ingestion:	No symptoms.
Inhalation:	Exposure may cause respiratory irritation.

SECTION 4B: FIRST AID MEASURES (ACTIONS)

Skin Contact:	Wash immediately with plenty of soap and water.
Eye Contact:	Flush the eye with running water for at least 15 minutes and rinse under the eyelids. If irritation persists, consult a specialist.
Ingestion:	Wash out mouth with water.
Inhalation:	Remove to fresh air.

SECTION 5: FIRE FIGHTING MEASURES

Fire Fighting Measures:	Bubble Glass™ is a non flammable substance. Not Applicable. Suitable extinguishing media for the surrounding fire should be used.
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SECTION 6: SPILL AND RELEASE MEASURES

Personal Protection:	See section 8 below.
Clean-Up Procedures:	Wipe up spill with damp cloth and transfer to suitable container. Avoid creating dust. Discard collected material in containers suitable for proper disposal.

SECTION 7: HANDLING AND STORAGE

Handling:	Ensure there is adequate ventilation of the work area. Avoid the formation or spread of dust.
Storage:	Store at room temperature in a dry area. Avoid damaging or puncturing containers.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

Eye Protection:	Safety glasses with side shields are recommended.
Skin Protection:	Protective gloves recommended.
Respiratory Protection:	Respiratory protective device with particle filter.
Engineering Controls:	Ensure there is exhaust ventilation of the area.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White or colored rounded beads of varying sizes.
Odor:	Odorless.
Melting Point:	Greater than 815°C.
Boiling Point:	Not applicable.
Bulk Density:	20 to 60 lbs/Ft ³ .
Solubility in Water:	Insoluble.

SECTION 10: STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Incompatibility:	Incompatible with concentrated hydrofluoric acid.
Hazardous Decomposition:	None.

SECTION 11: TOXICOLOGICAL INFORMATION

Chronic Toxicity: Overexposure to dust may cause irritation of eyes and throat. See SECTION 3.

SECTION 12: ENVIRONMENTAL INFORMATION

Mobility: No data available.

Persistence and Degradability: No data available.

SECTION 13: WASTE DISPOSAL

Disposal: Bubble Glass™ is considered to be non-hazardous. If permitted by applicable Federal, State and Local regulations, Bubble Glass™ can be disposed of in a solid waste landfill.

SECTION 14: TRANSPORTATION INFORMATION

Hazard Class: Not classified as a hazardous material for transport.

SECTION 15: REGULATORY INFORMATION

TSCA (Toxic Substance Control Act): All ingredients listed on the TSCA inventory

SECTION 16: OTHER INFORMATION

Legal Disclaimer: The above information is based on data available to us and is believed to be correct. Since the information may be applied under conditions beyond our control and with which we may be unfamiliar, we do not assume any responsibility for the results of its use. All persons receiving it must make their own determination of the effects, properties and protections which pertain to their particular conditions. No representation, warranty, or guarantee, express or implied (including a warranty of fitness or merchantability for a particular purpose), is made with respect to the materials, the accuracy of this information, the results to be obtained from the use thereof, or the hazards connected with the use of the material. Caution should be used in the handling and use of the material.