

Safety Data Sheet

1. IDENTIFICATION

Product Identifier GL0736, GL1356, GL1367, GL1599, GL1620, GL1728, GL1786, GL1788,

GL1807, GL1808 Glass

Other Means of Identification

SDS Number Silver/Gold Containing Glass

Product Code GL0736, GL1356, GL1599, GL1620, GL1728, GL1786, GL1788,

GL1807, GL1808 Glass

Recommended Use Not available.
Recommended Restrictions None known.
Manufacturer/Importers/Supplier/Distributor Information

Manufacturer/Supplier Mo-Sci Corporation, Mo-Sci Health Care, LLC, and Mo-Sci Specialty

Products LLC

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2. HAZARD IDENTIFICATION

Physical hazardsNot classifiedHealth hazardsNot classifiedOSHA defined hazardsNot classified

Label elementsNoneHazard symbolsNoneSignal wordNoneHazard statementNone

Precautionary statementMay irritate skin, eyes, mucous membranes. **Prevention**Observe good industrial hygiene practices.

Response Wash hands after handling.

StorageStore away from incompatible materials.

Disposal
Dispose of in accordance with local regulations.

Hazard(s) not otherwise Classified (HNOC) None known

Glass is an amorphous fusion of materials whose constituents are tightly bound together and are in a specific chemical environment, totally different from the initial state (in raw materials) and from that occurring in simple compounds (metals or oxides). Under normal conditions, glass never gives metal or oxide as direct dissociation products. Under extreme conditions, only a tiny fraction of glass constituents could leach from the glass matrix into aqueous solutions.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Chemical Name	CAS number	%	
Glass, Oxide, Chemicals	65997-17-3	100	
Constituents			
Chemical Name	CAS number	%	
Proprietary			
Composition comments	Concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.		

4. FIRST-AID MEASURES

InhalationIf symptomatic, move to fresh air. Get medical attention if symptoms persist.Skin ContactWash with soap and water. Get medical attention if symptoms occur.

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Eye Contact Material that contacts the eye should be washed out immediately with water. If easy

to do, remove contact lenses. Get medical attention if symptoms persist.

Ingestion Seek medical advice. Most Important Symptoms/Effects, Acute and Delayed

Direct contact with eyes may cause temporary irritation.

Indication of Immediate Medical Attention and Special Treatment Needed

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Water, Water fog, Foam, Dry chemical, and Carbon dioxide (CO₂)

Unsuitable Extinguishing Media None known **Specific Hazards Arising from the Chemical** None known **Special Protective Equipment and Precautions for Firefighters**

Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

Fire-fighting Equipment/Instructions

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Wear protective clothing as described in Section 8 of this SDS

Methods and Materials for Containment and Cleaning Up

Sweep or scoop up and remove.

For waste disposal, see Section 13 of the SDS

Environmental Precautions Avoid discharge into drains, water courses or onto the ground.

7. HANDLING AND STORAGE

Wear appropriate personal protective equipment (See Section 8). Precautions for Safe Handling

Wash thoroughly after handling.

Observe good industrial hygiene practices.

Dust or powder: Use only with adequate ventilation.

Avoid breathing dust.

Conditions for Safe Storage, including any Incompatibilities

Store in a cool dry environment.

Store away from incompatible materials (See Section 10).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

US OSHA Table z-1 Limits for Air Contaminants (29 CFR 1910.1000)

5 mg/m ³	Respirable fraction.
15 mg/m ³	Total dust.
	1 0. 2

US OSHA Table Z-3 (29 CFR 1910.1000)

Components	Туре	Value	Form
Dust (CAS-)	TWA	5 mg/m ³	Respirable fraction.
		15 mg/m ³	Total dust.
		50 millions of particles	Total dust.
		15 millions of particles	Respirable fraction.

US ACGIH Threshold Limit Values

On Throughou Emile Values				
Type	Value	Form		
TWA	3 mg/m ³	Respirable particles. Total dust.		
	Туре	Type Value		

Biological Limit Values No biological exposure limits noted for the ingredient(s). Appropriate Engineering Controls Ensure adequate ventilation, especially in confined areas.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection Normal eye protection practices should be used. If dusty conditions exist, chemical

goggles are recommended.

Skin Protection

Hand Protection Regular work gloves.

Wear apron or protective clothing in case of contact. If contact with forearms is likely Other

wear gauntlet style gloves.

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Respiratory Protection

- If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.
- In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134.
- Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.

Thermal Hazard Wear appropriate thermal protective clothing, when necessary.

General Hygiene Always observe good personal hygiene measures, such as washing after handling

the material and before eating, drinking, or/or smoking. Routinely wash work clothing

and protective equipment to remove contaminants.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Solid.
Physical State Solid.

Form Solid. Glass.

Color Clear. White to yellow. Light pink. Gray.

Odor Odorless. **Odor Threshold** Not available. pH (in water @25C) Not available. **Melting Point/Freezing Point** Not available. **Softening Temperature** Not measured. Initial Boiling Point and Boiling Range Not applicable. Flash Point Not applicable. **Evaporation Rate** Not available. Flammability (solid, gas) Not applicable.

Upper/Lower Flammability or Explosive Limits

Flammability Limit-Lower (%)
Flammability Limit-Upper (%)

Vapor Pressure
Vapor Density

Relative Density

Not applicable.
Not available.
Not available.
Not available.

Solubility

Solubility (water) Soluble (rate not measured).

Partition CoefficientNo data available.Auto-ignition TemperatureNot applicable.Decomposition TemperatureNot applicable.ViscosityNot applicable.Specific GravityNot measured.Refractive IndexNot measured.

10. STABILITY AND REACTIVITY

ReactivityThe product is stable and non-reactive under normal conditions of use,

storage and transportation.

Chemical Stability Stable under the prescribed storage conditions.

Possibility of Hazardous Reactions
Conditions to Avoid
Hazardous polymerization will not occur.
Contact with incompatible materials.

Incompatible Materials Strong acids. Strong bases.

Hazardous Decomposition Products Metal oxides.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

IngestionNo harmful effects expected in amounts likely to be ingested by accident.

Inhalation No inhalation hazard under normal conditions.

Contact with dust: May cause irritation to the respiratory system.

Skin contact Skin discoloration may occur after exposure to UV or sunlight. The

absorption of silver and its compounds over prolonged periods of time may cause Argyria, a permanent blue/gray discoloration of the eyes, skin

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and mucous membranes. May cause skin sensitization in hypersensitive

individuals.

Eye contact Direct contact with eyes may cause temporary irritation.

Symptoms Related to the Physical, Chemical and Toxicological Characteristics

Direct contact with eyes may cause temporary irritation.

Information on Toxicological Effects

May cause discomfort if swallowed. **Acute Toxicity**

Skin Corrosion/Irritation Dust may irritate skin.

Serious Eye Damage/Eye Irritation Direct contact with eyes may cause temporary irritation.

Respiratory or Skin Sensitization

Respiratory Sensitization No data available.

Skin Sensitization Prolonged skin contact may cause dermatitis

Germ Cell Mutagenicity No data available.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or

OSHA.

IARC Mongraphs. Overall Evaluation of Carcinogenicity

Glass, oxide, chemicals (CAS 65997-17-3) 3 not classifiable as to carcinogenicity to humans

Glass, oxide, chemicals (CAS 65997-17-3) NTP Report on Carcinogens

Reasonably anticipated to be a Human Carcinogen.

No data available. Reproductive Toxicity Specific Target Organ Toxicity - Single Exposure No data available **Specific Target Organ Toxicity - Repeated Exposure** No data available. **Aspiration Hazard** Not applicable

12. ECOLOGICAL INFORMATION

Ecotoxicity Not expected to be harmful to aquatic organisms.

Persistence and Degradability No data available. **Bioaccumulative Potential** No data available.

Mobility in Soil The product is not mobile in soil.

Other Adverse Effects None known.

13. DISPOSAL CONSIDERATIONS

Disposal Instructions Do not discharge into drains, water courses or onto the ground.

Local Disposal Regulations Dispose in accordance with all applicable regulations.

Hazardous Waste Code Not regulated. The waste code should be assigned in discussion between the user,

the producer and the waste disposal company.

Waste from Residues/Unused Products

Recover and recycle, if practical.

Dispose of in accordance with local regulations. Contaminated packaging

14. TRANSPORT INFORMATION

DOT Not regulated as dangerous goods. Not regulated as dangerous goods. IATA **IMDG** Not regulated as dangerous goods. Transport in Bulk According to Annex II of MARPOL 73-78 and IBC Code

Not applicable.

15. REGULATORY INFORMATION

US Federal Regulations This product is not hazardous according to OSHA 29CFR 1910-1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated. US OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed. **CERCLA Hazardous Substance List (40CFR 302.4)** Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazardous Categories

Immediate Hazard No **Delayed Hazard** No Fire Hazard No **Pressure Hazard** No **Reactivity Hazard** No

SARA 302 Extremely Hazardous Substance Not listed.

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SARA 311/312 Hazardous Chemical No SARA 313 (TRI reporting) No

Other Federal Regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated. Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.

Safe Drinking Water Act (SDWA)

Not Regulated.

US State Regulations

US Massachusetts RTK - Substance List

Aluminum oxide (CAS 1344-28-1)

Quartz (CAS 14808-60-7)

US New Jersey Worker and community Right-to-Know Act

Aluminum oxide (CAS 1344-28-1)

Quartz (CAS 14808-60-7)

US Pennsylvania worker and Community Right-to-Know Law

Aluminum oxide (CAS 1344-28-1)

Quartz (CAS 14808-60-7)

US Rhode Island RTK

Aluminum oxide (CAS 1344-28-1)

US- California Proposition 65-Carcinogens & Reproductive Toxicity (CTR): Listed substance

Quartz (CAS 14808-60-7)

Warning: This product contains chemical(s) known to the State of California to cause cancer and birth defects or other reproductive harm.

Internal Inventories

Countries or Region	Inventory Name	On Inventory *
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substance control Act (TSCA) Inventory	Yes

^{*}A "yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "no" indicates that one or more components of the products are not listed or except from listing on the inventory administered by the governing country(s).

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

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Further Information The classification for health and environmental hazards is derived by a combination

of calculation methods and test data, if available.

NFPA Ratings



Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available.

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