

Safety Data Sheet

1. IDENTIFICATION

Product Identifier

GL0179, GL0179 Silver Coated, GL0179 with Fumed Silica, GL0179 with Aerosil 200, GL0186, GL0259, GL0271, GL0746, GL1399, GL1406, GL1472, GL1584, GL1619, GL1623, GL1632, GL1634, GL1638, GL1641, GL1654, GL1659, GL1664, GL1665, GL1666, GL1699, GL1673, GL1706, GL1713, GL1733, GL1735, GL1759, GL1761, GL1762, GL1763, GL1765, GL1769, GL1770, GL1771, GL1776, GL1777, GL1792, GL1793, GL1794, GL1795, GL1809, GL1842, GL1844, GL1855, GL1859, GL1863, GL1883 Glass

Other Means of Identification

SDS Number

Borosilicate Glass

Product Code

GL0179, GL0179 Silver Coated, GL0179 with Fumed Silica, GL0179 with Aerosil 200, GL0186, GL0259, GL0271, GL0746, GL1399, GL1406, GL1472, GL1584, GL1619, GL1623, GL1632, GL1634, GL1638, GL1641, GL1654, GL1659, GL1664, GL1665, GL1666, GL1699, GL1673, GL1706, GL1713, GL1733, GL1735, GL1759, GL1761, GL1762, GL1763, GL1765, GL1769, GL1770, GL1771, GL1776, GL1777, GL1792, GL1793, GL1794, GL1795, GL1809, GL1842, GL1844, GL1855, GL1859, GL1863, GL1883 Glass

Recommended Use

Not available.

Recommended Restrictions

None known.

Manufacturer/Importer/Supplier/Distributor Information

Manufacturer/Supplier

Mo-Sci Corporation, Mo-Sci Health Care, LLC, and Mo-Sci Specialty Products LLC

Address

4040 Hypoint North Rolla, MO, USA 65401

Telephone Number

573-364-2338

e-mail

mo-sci@mo-sci.com

Contact Person

Krista Grayson

Emergency Telephone Number

573-364-2338

2. HAZARDS IDENTIFICATION

Physical hazards

Not classified

Health hazards

Not classified

OSHA defined hazards

Not classified

Label elements

None

Hazard symbols

None

Signal word

None

Hazard statement

None

Precautionary statement

May irritate skin, eyes, mucous membranes.

Prevention

Observe good industrial hygiene practices.

Response

Wash hands thoroughly after handling.

Storage

Store away from incompatible materials.

Disposal

Dispose of in accordance with local regulations.

Classification according to Regulation (EC) No 1272/2008:

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

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	%
Glass, Oxide, Chemicals	65997-17-3	≤100
Gamma-Methacryloxypropyltrimethoxysilane	2530-85-0	≤1%
Hydrophilic Fumed Silica	112-945-52-5	<1%

Composition comments Concentrations are in percent by weight unless ingredient is a gas.
Gas concentrations are in percent by volume.

4. FIRST AID MEASURES

Inhalation

If symptomatic, move to fresh air. If symptoms persist Get medical attention.

Skin Contact

Gently wash with plenty of soap and water.
If symptoms occur: Get medical attention.

Eye Contact

Material that contacts the eye should be washed out immediately with water.
Remove contact lenses, if present and easy to do.
Get medical attention if symptoms persist.

Ingestion

Seek medical advice.

Most Important Symptoms and Effects, Both Acute and Delayed

Direct contact with eyes may cause temporary irritation.

Indication of Immediate Medical Attention and Special Treatment Needed

Treat symptomatically.

5. FIREFIGHTING 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
Avoid discharge into drains, water courses or onto the ground.

Environmental Precautions

7. HANDLING AND STORAGE

Precautions for Safe Handling

Wear appropriate personal protective equipment (See Section 8).
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).
 Indefinite id stored in ambient conditions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

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

Components	Type	Value	Form
Dust (CAS-)	PEL	5 mg/m ³	Respirable fraction.
		15 mg/m ³	Total dust.

US OSHA Table Z-3 (29 CFR 1910.1000)

Components	Type	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

Components	Type	Value	Form
Dust (CAS-)	TWA	3 mg/m ³	Respirable particles.
		10 mg/m ³	Total dust.

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.

Other

Wear apron or protective clothing in case of contact. If contact with forearms is likely wear gauntlet style gloves.

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	White. Clear. Pale green. Blue. Gray. Silver. Black. Pink.
Odor	Not available.
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 (%)	Not applicable.
Flammability Limit-Upper (%)	Not applicable.
Vapor Pressure	Not available.
Vapor Density	Not applicable.
Relative Density	Not available.
Solubility	
Solubility (water)	Not measured.
Partition Coefficient	No data available.
Auto-ignition Temperature	Not applicable.
Decomposition Temperature	Not applicable.
Viscosity	Not applicable.
Specific Gravity	Not measured.
Refractive Index	Not measured.

10. STABILITY AND REACTIVITY

Reactivity	The 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	Hazardous polymerization will not occur.
Conditions to Avoid	Contact with incompatible materials.
Incompatible Materials	Strong acids. Strong bases.
Hazardous Decomposition Products	Metal oxides.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Ingestion	No 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	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

Acute Toxicity	May cause discomfort if swallowed.
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

NTP Report on Carcinogens

Glass, oxide, chemicals (CAS 65997-17-3)
Reasonably anticipated to be a Human Carcinogen.

Reproductive Toxicity No data available.
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.
Contaminated packaging Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

DOT Not regulated as dangerous goods.
IATA Not regulated as dangerous goods.
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.
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)
Calcium oxide (CAS 1305-78-8)
Magnesium oxide (CAS 1309-48-4)
Quartz (CAS 14808-60-7)

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

Aluminum oxide (CAS 1344-28-1)
Calcium oxide (CAS 1305-78-8)
Magnesium oxide (CAS 1309-48-4)
Quartz (CAS 14808-60-7)

US Pennsylvania worker and Community Right-to-Know Law

Aluminum oxide (CAS 1344-28-1)
Calcium oxide (CAS 1305-78-8)
Magnesium oxide (CAS 1309-48-4)
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

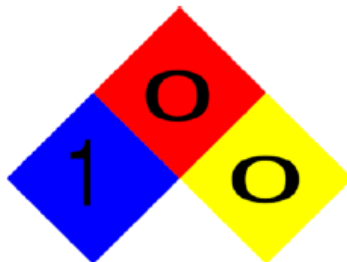
*A "yes" indicates this product complies with the inventory requirements administered by the governing country(s).

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

Issue Date 3-15-2018
Revision Date 12-12-2019
Version 07
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.