

1. Identification

Product Identifier Silicate Glass
Other means of identification
SDS number GL 1641
Product Code GL 1641 Silicate 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
Address 4040 Hypoint North Rolla, MO, USA 65401
Telephone number 573-364-2338
e-mail mo-sci@mo-sci.com
Contact Person Krista Gann
Emergency telephone number 573-364-2338

2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Not classified.
OSHA defined hazards Not classified.
Label elements
 Hazard symbols None.
 Signal word Not assigned.
 Hazard statement Not assigned.
Precautionary statement
Prevention Observe good industrial hygiene practices.
Response Wash hands after handling.
Storage Store away from incompatible materials.
Disposal Dispose of in accordance with local regulations.
Hazard(s) not otherwise Classified (HNOC) None known.

3. Composition/information on ingredients

Mixtures

Chemical Name	CAS number	%
Glass, Oxide, Chemicals	65997-17-3	100

Constituents

Chemical Name	CAS number	%
Proprietary		

All 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. Get medical attention if symptoms persist.
Skin contact Wash with soap and water. Get medical attention if symptoms occur.
Eye contact Any 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, 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 work 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 safety data sheet.
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

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 at ambient temperature and atmospheric pressure.
 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)

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

Clear. White.

Odor

Not available.

Odor threshold

Not available.

pH

Not available.

Melting point/freezing point

Not available.

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 measured.

Solubility (water)

Not available.

Partition coefficient

No data available.

Auto-ignition temperature

Not applicable.

Decomposition temperature

Not applicable.

Viscosity

Not applicable.

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 No adverse effects due to skin contact are expected.
 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 Monographs. 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® Accidental Release Prevention (40 CFR 68.130) Not regulated.
Safe Drinking Water Act (SDWA) Not Regulated.
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)

Internal Inventories

Country(s) 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

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

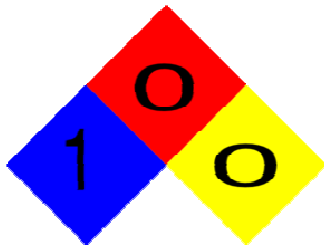
16. Other information, including date of preparation or last revision

Issue date 22-Oct-2014

Revision date 22-Oct-2014

Version # 01

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.