

CROSSFIELD PRODUCTS CORPORATION

SAFTEY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND COMPANY UNDERTAKING

1.1 Product identifier

Product Name MiraGard Nano Glass

1.2 Relevant identified uses of the substance or mixture and uses advised against
 Identified use(s)
 Industrial use only.
 Uses advised against
 None known.

1.3 Details of the supplier of the safety data sheet

Company Identification

CROSSFIELD PRODUCTS CORPORATION

3000 E. Harcourt St.

Rancho Dominguez, CA 90221

(310) 886-9100

www.crossfieldproducts.com

1.4 Emergency telephone number

Emergency Phone No. +1 800-424-9300

2. HAZARDS INFORMATION

2.1 Classification of the substance or mixture

GHS Classification Skin Irrit. 2

Eye Irrit. 2

Hazards summary Alkaline

Irritating to eyes and skin. May cause respiratory irritation.

Caution - spillages may be slippery.

2.2 Label elements

Hazard pictogram(s)



Signal word(s) Warning

Hazard statement(s) H315: Causes skin irritation.

H319: Causes serious eye irritation.



Precautionary statement(s) P262: Do not get in eyes, on skin, or on clothing.

P280: Wear protective gloves/protective clothing/eye

protection/face protection

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with

water/shower.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsina.

2.3 Other hazards Not applicable.

3. COMPOSITION/INFORMATION OF INGREDIANTS

Regulation (EC) No. 1272/2008 (CLP)

regulation (EO) No. 121	2/2000 (CLI	,		
Ingredient(s)	%W/W	CAS No.	EINECS No. /	Hazard symbol(s) and
			REACH Registration	hazard statement(s)
Lithium silicate		12627-14-4	235-730-0	H315: Skin Irrit. 2
	5-10%		Pre-registered	H319: Eye Irrit. 2
				H335: STOT SE 3
Potassium silicate		1312-76-1	215-199-1	H315 Skin Irrit. 2
	20-25%			H319 Eye Irrit. 2
Water	65-70%	7732-18-5	231-791-2	Not classified

EC Classification No. 67/548/EEC

4. FIRST-AID MEASURES

4.1 Description of first aid measures

Irrigate with eyewash solution or clean water, holding the eyelids Eye Contact

apart, for at least 15 minutes. Obtain immediate medical

attention

Skin Contact Wash affected skin with plenty of water. If symptoms develop,

obtain medical attention.

Inhalation Remove patient from exposure, keep warm and at rest. Obtain

medical attention.

Ingestion Do not induce vomiting. Wash out mouth with water and give

200-300 ml (half a pint) of water to drink. Obtain medical

attention.

4.2 Most important symptoms and effects, both acute and

delayed

4.3 Indication of any immediate medical attention and special

treatment needed

Irritating to eyes and skin. May cause respiratory irritation.

Obtain immediate medical attention.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media Unsuitable extinguishing Media 5.2 Special hazards arising from

the substance or mixture 5.3 Advice for fire-fighters Compatible with all standard fire fighting techniques. None known

Not applicable. Aqueous solution. Non-combustible.

6. ACCIDENTAL RELEASE MEASURES

MiraGard Nano Glass (7084-5GP), SDS PAGE 2 of 6



6.1 Personal precautions, protective equipment and emergency procedures

Wear suitable protective clothing. Wear eye/face protection.

6.2 Environmental precautions

Do not allow to enter drains, sewers or watercourses. Advise Authorities if spillage has entered water course or sewer or has

contaminated soil or vegetation.

6.3 Methods and materials for containment and cleaning up

Caution - spillages may be slippery. Contain spillages with sand, earth or any suitable adsorbent material. Transfer to a container

6.4 Reference to other sections

for disposal or recovery. See also Section 8

7. HANDLING AND STORAGE

Avoid contact with eyes, skin and clothing. 7.1 Precautions for safe handling

Avoid generation of mist. Provide adequate ventilation. Emergency shower and eye wash facilities should be readily

available.

See Also Section 8.

Wear protective equipment to comply with good occupational

hygiene practice.

Do not eat, drink or smoke at the work place.

7.2 Conditions for safe storage, including any incompatibilities

Keep at a temperature not exceeding (°C): 50 Do not allow material to freeze.

Provide an adequate bund wall.

Unsuitable containers: Aluminium See Also Section 10.

7.3 Specific end use(s)

Not applicable.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters

SUBSTANCE.	Occupational Exposure Limits		
Lithium silicate	No Occupational Exposure Limit assigned.		
	An exposure limit of 1 mg/m3 (15 min TWA) is recommended by analogy		
	with lithium hydroxide (UK EH40).		

8.2 Exposure controls Wear protective equipment to comply with good occupational

hygiene practice. Do not eat, drink or smoke at the work place.

8.2.1 Appropriate engineering

controls

Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of

process conditions.

8.2.2 Personal Protection

Respiratory protection

Respiratory protection not normally required. Advice on

respiratory protective equipment is given in the HSE (Health and

Safety Executive) publication HS(G)53.

Eye/face protection

Skin protection

Wear suitable protective clothing and gloves. Plastic or rubber

gloves. For example EN374-3, level 6 breakthrough time

(>480min). Wear suitable overalls.

Chemical goggles (EN 166).

8.2.3 Environmental Exposure

Controls

Avoid release to the environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance Liquid Colourless.

> MiraGard Nano Glass (7084-5GP), SDS PAGE 3 of 6



Odour Odourless. Odour Threshold (ppm) Not applicable. pH (Value)
Freezing Point (°C) ~12 Alkaline. Not applicable. Melting Point (°C)
Boiling Point (°C) Not applicable.

Flash Point (°C) [Closed cup] Not applicable. Evaporation rate Not applicable. Flammability (solid, gas) Not applicable. Not applicable. Explosive Limit Ranges Vapour Pressure (mm Hg) Vapour Density (Air=1) No data.

1.2 g/cm3 (20°C); 25° Bé; 10.0 lbs/gal Density (g/ml)

Solubility (Water) Soluble. Solubility (Other) No data. Partition Coefficient No data. Auto Ignition Point (°C) Not applicable. Not applicable. Decomposition Temperature (°C) Not applicable. Viscosity (mPa. s) Not applicable. Explosive properties Oxidising Properties Not applicable. 9.2 Other information No data.

10. STABILITY AND REACTIVITY

10.1 Reactivity See Section: 10.3 Stable.

10.2 Chemical stability

10.3 Possibility of hazardous

reactions

When arc welding vessels containing aqueous solutions of this material, take care to control any explosion risk from hydrogen evolved by electrolysis. This product will react with aluminium, zinc, tin and their alloys evolving hydrogen gas which can form an explosive mixture with air. Can react violently if in contact with acids. Can react with sugar residues to form carbon monoxide.

10.4 Conditions to avoid See Section: 10.3 10.5 Incompatible materials See Section: 10.3 10.6 Hazardous decomposition None known.

product(s)

11. TOXICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Ingestion Lithium compounds may damage the central nervous system. A

large dose may have the following effects: headache, nausea,

dizziness, convulsions, kidney damage. Inhalation Mist is irritant to the respiratory tract.

Skin Contact Repeated and/or prolonged skin contact may cause slight

irritation.

Eye Contact Liquid or mist may cause discomfort and mild irritation.

Skin corrosion/irritation Irritating to skin. Serious eye damage/irritation Irritating to eyes. Sensitisation Not sensitising. Mutagenicity No data

IARC, NTP, OSHA, ACGIH do not list this product or any Carcinogenicity components thereof as known or suspected carcinogen.

Reproductive toxicity Lithium compounds - teratogenic effects have been observed in

laboratory animals.

Not classified. STOT - single exposure STOT - repeated exposure Not classified Aspiration hazard Not classified.



Other information Lithium compounds may damage the central nervous system.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Lithium compounds - no data.

12.2 Persistence and degradability

Inorganic. Soluble silicates, upon dilution, rapidly depolymerise into molecular species indistinguishable from natural dissolved

silica

12.3 Bioaccumulative potential

Inorganic. The substance has no potential for bioaccumulation. Not applicable.

12.4 Mobility in soil 12.5 Results of PBT and vPvB

assessment

Not classified as PBT or vPvB.

12.6 Other adverse effects

The alkalinity of this material will have a local effect on

ecosystems sensitive to changes in pH.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal should be in accordance with local, state or national

legislation.

14. TRANSPORTATION INFORMATION

14.1 UN number

Not applicable. Not applicable.

14.2 Proper Shipping Name 14.3 Transport hazard class(es)

Not applicable.

14.4 Packing group

Not applicable.

14.5 Environmental hazards

Not classified as a Marine Pollutant.

14.6 Special precautions for user

No special packaging requirements. Unsuitable containers:

Aluminium

14.7 Transport in bulk according to Annex II of MARPOL73/78 and Not applicable.

the IBC Code

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or

TSCA Inventory Status: Reported/Included. AICS Inventory Status: Reported/Included. DSL/NDSL Inventory Status: Reported/Included.

German Water Hazard Classification VwVwS: Product ID number 1314, WGK class

1 (low hazard to water).

SARA TITLE III: This material is not a listed Toxic Chemical subject to the reporting

requirements of SARA Title III §313 and 40 C.F.R. Part 372. Hazard

Categories under SARA Title III §§311/312: Acute.

15.2 Chemical Safety Assessment

Not available.

16. OTHER INFORMATION

PREPARED BY:

ANDREW WATT

This SDS was last reviewed: 07/2022

The following sections contain revisions or new statements: No significant changes required to this version at last review.

> MiraGard Nano Glass (7084-5GP), SDS PAGE 5 of 6



EC Classification No. 67/548/EEC

Hazard Symbol Risk Phrases Safety Phrases

R36/38: Irritating to eyes and skin.

S26: In case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

GHS Classification

Signal word(s)
Hazard pictogram(s)

Skin Irrit. 2 Eye Irrit. 2 Warning

IRRITANT Xi

 \Diamond

Hazard statement(s)

H315: Causes skin irritation.

H319: Causes serious eye irritation.

Precautionary statement(s)

P262: Do not get in eyes, on skin, or on clothing. P280: Wear protective gloves/protective clothing/eye

protection/face protection

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with

water/shower.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Crossfield Products Corp gives no warranty as to the fitness of the product for any particular purpose and any Implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Crossfield Products Corporation accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved). resultinging from reliance on this information. Freedom under patents, Copyright and Designs cannot be assumed,

MiraGard Nano Glass (7084-5GP), SDS