



FLG80 CHRISTY GLASS

MATERIAL SAFETY DATA SHEET

Last Revised: 10 December 2024

Substance/preparation and company identification

Trade name: **FLG 80**

Used for surface coating of concrete, glass or plastics [PROC 5, 7, 8a, 9, 10, 13] / [SU 10, 13]

Warrior Pte Ltd

Contact address:

17 Marsiling Industrial Estate Road 1 #01-11

Singapore 739279

Tel: +65 6364 5100

E-mail: war99@singnet.com.sg

Composition/Information on Hazardous Ingredients

Chemical characterization

Lithium silicate

Hazardous ingredients

Silicic acid, lithium salt

CAS No. 12627-14-4

EINECS no. 235-730-0

Concentration 25 - 50 %

Classification Xi, R36/38

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

Eye Irrit. 2 H319 Causes serious eye irritation.

First Aid Measures

General information

No special measures necessary.

After inhalation

No special measures necessary.

After skin contact

After contact with skin, wash off immediately with plenty of water. Do not allow the product to dry on the skin. Consult a doctor if skin irritation persists.

After eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.

After ingestion

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Summon a doctor immediately.

Hints for the physician / hazards

This product contains lithium polysilicate.



FLG80 CHRISTY GLASS

MATERIAL SAFETY DATA SHEET

Fire-fighting Measures

Suitable extinguishing media

Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

Non Suitable extinguishing media

Compatible with all usual extinguishing media.

Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases

None known

Special protective equipment for fire-fighting

In case of combustion use a suitable breathing apparatus.

Accidental Release Measures

Personal precautions

Use personal protective clothing. High risk of slipping due to leakage/spillage of product.

Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

Methods for cleaning up

Take up with absorbent material (eg sand, kieselguhr, universal binder). Rinse away rest with plenty of water.

Handling and Storage

Handling

Advice on safe handling

Observe the usual precautions for handling chemicals. Open and handle container with care.

Storage

Requirements for storage rooms and vessels

Keep only in the original container.

Further information on storage conditions

Protect from frost. Do not store at temperatures above 60 °C.

Recommended storage temperature

Value 5 - 45 °C

VCI storage category

VCI storage category 12 Non-combustible liquids

Storage stability

Under correct storing conditions the product is stable for at least 12 months.

Exposure controls/personal protection

General protective and hygiene measures

Remove soiled or soaked clothing immediately. Wash hands before breaks and after work. Do not eat, drink or smoke during work time.



FLG80 CHRISTY GLASS

MATERIAL SAFETY DATA SHEET

Occupational exposure controls

Respiratory protection

Breathing apparatus in the event of aerosol or mist formation. Short term: filter apparatus, Filter B

Hand protection

Gloves (alkali-resistant)

Appropriate Material Natural Latex

KCL Lapren 706 / 0.6mm / 480 min.

Eye protection

Safety glasses with side protection shield

Body protection

Clothing as usual in the chemical industry.

Physical and Chemical Properties

General information

Form: Liquid, clear

Colour: Colorless to slightly opalescent

Odour: Odourless

Important health, safety and environmental information

Flash point

Non flammable.

Boiling point

Value appr. 100 °C

Freezing point

Value appr. -2 °C

Ignition temperature

Non flammable.

Fire promoting Properties

Not applicable

Explosion limits

Non flammable.

Vapour pressure

Density

Value appr. 1.25 kg/l

Temperature 20 °C

Viscosity

Value appr. 100 mPa.s

Temperature 20 °C

Solubility in water

Completely miscible

pH

Value 12 to 13

Octanol/water partition coefficient (log Pow)

Not applicable

Solids content

Value appr. 28 %

Flammability

Not ignitable



FLG80 CHRISTY GLASS

MATERIAL SAFETY DATA SHEET

Stability and Reactivity

Conditions to avoid

Protect from frost. Do not store at temperatures above 60 °C.

Materials to avoid

Acids

Hazardous decomposition products

No hazardous decomposition products known.

Toxicological information

Acute toxicity / further data

Acute oral toxicity

The poisonous effect of the product is caused by its alkalinity and not by substance-specific systemic characteristics. The LD50 value is of no practical significance due to the caustic effect of the product.

Irritant/corrosive effects

Irritant effect on skin

Irritant

Irritant effect on eyes

Irritant

Sensitization

Non-sensitizing

Effects after repeated or prolonged exposition (subacute, subchronic, cronic)

Experience in practice

Contact of the product with skin or eyes may cause irritation.

Other information

When handled appropriately, even after long years of experience with this product, no adverse health effects are known.

Ecological information

Fish toxicity

Reference substance: Silicic acid, lithium salt

Species: Trout

LC50 > 100 mg/l

Duration of exposure: 96 h

The ecotoxic effect of the product is mainly due to its alkalinity.

Daphnia toxicity

Reference substance: Silicic acid, lithium salt

Species: Daphnia magna

EC0 > 800 mg/l

Duration of exposure: 48 h

The ecotoxic effect of the product is mainly due to its alkalinity.

Biodegradability

Inorganic product; cannot be eliminated from the water by biological purification processes.



FLG80 CHRISTY GLASS

MATERIAL SAFETY DATA SHEET

Behaviour in sewers [waste treatment plants]

The product is an alkaline solution. Neutralization is normally necessary before a waste water is discharged into sewage treatment plants. When low concentrations are discharged correctly into adapted biological sewage treatment plants, disturbance of the degradation activity of activated sludge is not likely.

General information / ecology

Do not allow to enter soil, waterways or waste water canal.

Disposal considerations

Disposal recommendations for the product

EWC waste code 06 02 05* other bases

Dilution and neutralization with acid. After solidification (e.g. as CaSiO_3 precipitate), landfill in accordance with local authorities. Re-use without reprocessing as long as not solidified.

Disposal recommendations for packaging

Completely emptied packaging can be given for recycling.

Transport information

Land transport ADR/RID

Not classified as dangerous according to transport regulations.

Marine transport IMDG/GGVSee

Not classified as dangerous according to transport regulations.

Air transport ICAO/IATA

Not classified as dangerous according to transport regulations.

Regulatory information

Labelling in accordance with EC directives

The product is classified and labelled in accordance with EC Directive 99/45/EC.

Labelling on the basis of results obtained from toxicological examinations.

Registration no.

EC No.: 235-730-0

Hazard symbols

Xi irritant

Hazardous component(s) to be indicated on label

R phrases

36/38 Irritating to eyes and skin.

S phrases

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.



FLG80 CHRISTY GLASS

MATERIAL SAFETY DATA SHEET

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms

GHS07 Exclamation mark

Signal word

Warning

Hazard statements

H319 Causes serious eye irritation.

Precautionary statements

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 rinsing.

National regulations

Water Hazard Class (Germany)

Water Hazard Class

(Germany)

Other Information

- Any other intended applications should be discussed with the manufacturer.
- If you have any queries relating to this MSDS, its contents or any other product safety related questions, please write to the following e-mail address: war99@singnet.com.sg
- The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.