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Safety Data Sheet

Section 1 – Product and Company Identification

Chemical Names: 3-(2,3-Epoxypropoxy) propyltrimethoxysilane
3-Glycidoxypropyltrimethoxysilane

Commercial Product Name: ROYALSIL HI-PURITY GLYMO

Chemical Classification: Organosilane

Use of Product: Industrial or Intermediate Chemical

Supplier: ROYALSIL Inc.
Address: 25 Lancelot Lane
Mount laurel, NJ 08054-1912
Phone: (856) 866-0038

Emergency Phone: Call CHEMTREC at (800) 424-9300
Refer to ROYALSIL Inc. Contract # CCN674872

Section 2 – Hazards Identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Serious eye damage (Category 1), H318

For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Xi Irritant R41, R52

For the full text of the R-phrases mentioned in this Section, see Section 16.

Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram

Statutory basis

EU-CLP as per Regulation (EU) NO.1272/2008

Symbol



Signal word

Danger



Hazard statement(s)

H318 Causes serious eye damage.

Precautionary statement(s)

P280 Wear protective gloves/ eye protection/ face protection.

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

Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Section 3 – Composition/Information on Ingredients

CAS#	Chemical Name	%	EINECS#	Classification
2530-83-8	3-(2,3-epoxypropoxy)propyl trimethoxysilane	98	219-784-2	Eye Dam. 1; H318 Xi, R41 - R52

For the full text of the H-Statements mentioned in this Section, see Section 16.

Section 4 - First Aid Measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water.

Consult a physician.



Section 5 - Fire Fighting Measures

Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Spills/Leaks: Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Section 7 - Handling and Storage

Handling: Avoid inhalation of vapour or mist.

Storage: Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section 8 - Exposure Controls, Personal Protection

Contains no substances with occupational exposure limit values.

Personal Protective Equipment

Eyes: Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).



Skin: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Clothing: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respirators: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Section 9 - Physical and Chemical Properties

Physical State: liquid

Color: colourless

Odor: Not available.

pH: Not available.

Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: 120 °C at 3 hPa - lit.

Freezing/Melting Point: Not available.

Autoignition Temperature: Not available.

Flash Point: 122 °C - Cleveland open cup

Explosion Limits:Lower: 0.43 %(V)

Explosion Limits Upper: Not available.



Decomposition Temperature: Not available.

Solubility in water: Not available.

Specific Gravity/Density: 1.07 g/cm³ at 25 °C

Molecular Formula: C₉H₂₀O₅Si

Molecular Weight: 236.34

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials.

Incompatibilities with Other Materials: Oxidizing agents

Hazardous Decomposition Products: Carbon oxides. Silicide

Section 11 - Toxicological Information

RTECS#: CAS# 2530-83-8: VV4025000

LD50/LC50: RTECS: LD50 Oral - Rat - 8,030 mg/kg

LD50 Dermal - Rabbit - 4,248 mg/kg

Carcinogenicity: 3-(2,3-epoxypropoxy)propyl trimethoxysilane- Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Section 12 - Ecological Information

Toxicity

Toxicity to fish LC50 - Cyprinus carpio (Carp) - 55 mg/l - 96 h

LC0 - Cyprinus carpio (Carp) - 30 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates

EC50 - Daphnia magna (Water flea) - 473 mg/l - 48 h

Toxicity to algae EC50 - Desmodesmus subspicatus (green algae) - 255 mg/l - 72 h

Other adverse effects Harmful to aquatic life.



Section 13 - Disposal Considerations

Product: Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging: Dispose of as unused product.

Section 14 - Transport Information

IATA : Not regulated as a dangerous material.

RID/ADR: Not regulated as a dangerous material.

IMO: Not regulated as a dangerous material.

Section 15 - Regulatory Information

This safety data sheet complies with the requirements of Regulation (EC) No 1907/2006

Section 16 - Other Information

Full text of H-Statements referred to under sections 2 and 3.

Eye Dam. Serious eye damage

H318 Causes serious eye damage.

Full text of R-phrases referred to under sections 2 and 3

Xi Irritant

R41 Risk of serious damage to eyes.

R52 Harmful to aquatic organisms.

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