



Safety Data Sheet

3-Glycidoxypropyltrimethoxysilane

Section 1. Identification

Product Identifier 3-Glycidoxypropyltrimethoxysilane

Synonyms N/A

Manufacturer Stock Numbers G6720

Product Cas 2530-83-8

Recommended use Chemical Intermediate

Uses advised against N/A

Manufacturer Contact

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Section 2. Hazards Identification

Classification EYE DAMAGE/IRRITATION - Category 2
SKIN CORROSION/IRRITATION - Category 2

Signal Word Danger

Pictogram



Hazard Statements

Causes serious eye damage
Causes skin irritation
May cause respiratory irritation; or May cause drowsiness or dizziness

Precautionary Statements

Response

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If skin irritation occurs: Get medical advice/attention.

Prevention

Avoid breathing dust/fume/gas/mist/ vapors/spray.
Wash face and hands thoroughly after handling.
Wear eye protection/face protection.
Wear protective gloves.

Storage

Store in a dry place. Store in a closed container.

Disposal

Dispose of contents/container to in accordance with local, state and federal regulations

Ingredients of unknown toxicity

0%

Hazards not Otherwise Classified

Acute Toxicity

Prolonged or repeated exposure and/or high concentrations of vapors will produce chemical burns and destruction of affected tissues. Respirable vapors or mist are irritating to the upper respiratory tract and bronchi. Inhalation may be fatal as a result of spasm, inflammation and edema of the lungs and larynx. Prolonged or widespread contact may result in the absorption of a potentially harmful amount of material. If ingested, this material may cause severe burns of the mouth, pharynx, esophagus and stomach.

Medical Conditions Aggravated

Exclude from exposure, any individual/s having a history of respiratory illness or pre-existing eye or skin conditions until a qualified medical physician determines otherwise.

Comments

It is recommended that exposure be minimized

Section 3. Ingredients

CAS	Ingredient Name	Weight %
2530-83-8	(3-GLYCIDOXYPROPYL)TRIMETHOXYSILANE	Unknown

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-Aid Measures

General	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
Eye	Immediately flush eyes with plenty of water. Get medical attention if irritation persists.
Ingestion	Get medical attention immediately.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
Skin	Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.
Comments	If symptoms persist, get medical attention. Never give anything by mouth to an unconscious person.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media	Water Spray, CO2, Foam, Dry Chemical As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
Unsuitable Extinguishing Media	N/A

Section 6. Accidental Release Measures

General Procedure	Absorb spill material with suitable chemical binder. Shovel absorbent into suitable waste container. Do not wash into sewer or soil, groundwater or surface water.
Spill.	Evacuate spill area of non-essential personnel. Ventilate the spill area. Avoid breathing vapor. Wear appropriate personal protective equipment.
Special Protective Equipment	Wear appropriate personal protective equipment as specified in section 8.

Section 7. Handling and Storage

Storage.	Store in a cool and dry place. Store in a tightly sealed container under nitrogen. Protect from heat, direct sunlight and source of ignition. Store away from acidic, alkaline and oxidizing materials. Provide adequate ventilation.
Additional Information	CONDITIONS TO AVOID- MOISTURE

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	(3-GLYCIDOXYPROPYL)TRIMETHOXSILANE	N/A	N/A	N/A
Personal Protective Equipment	Goggles, Gloves, Respirator			

Engineering Controls	Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.
Eye and Face	Use non-venting chemical goggles
Skin	Use impervious gloves. Use impervious clothing as necessary to protect against skin contact
Respiratory	Local exhaust required. Mechanical ventilation required. In case of exposure, use appropriate NIOSH approved respiratory protection
Work Hygienic Practices	General industrial hygiene practice
Comments	To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment, in accordance with the OSHA PPE Standard (29 CFR 1910.132), be conducted before using this product.

Section 9. Physical and Chemical Properties

Physical State	Liquid
Color	Clear to light yellow
Odor	Aromatic odor
Odor Threshold	N/A
Solubility	Reacts
Partition coefficient Water/n-octanol	N/A
VOC%	N/A
Viscosity	3.00 CST
Specific Gravity	1.07
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	101C/214F
FP Method	TCC
pH	N/A
Melting Point	N/A
Boiling Point	N/A
Boiling Range	N/A
LEL	N/A
UEL	N/A
Evaporation Rate	N/A
Flammability	N/A
Decomposition Temperature	N/A
Auto-ignition Temperature	N/A
Vapor Pressure	N/A
Vapor Density	N/A

Section 10. Stability and Reactivity

Stability	(Under Normal Conditions) Stable under ordinary conditions of use and storage
Polymerization	Hazardous polymerization will not occur.
Hazardous Dec. Prod.	Silicon dioxide, carbon dioxide, trace amounts of formaldehyde may form when heated above 300 deg. F.
Incompatible Materials	Oxidizing agents and moisture

Section 11. Toxicological Information

Carcinogenicity	<p>IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.</p> <p>NTP: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.</p> <p>OSHA: No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.</p>
Comments	To the best of our knowledge, the toxicological properties have not been thoroughly investigated. Although we are unaware of any health or environmental risks from this material, exposure should be minimized.
Additional Information	<p>Acute</p> <p>Oral LD50: Product generates methyl alcohol which may cause blindness and possibly death if swallowed.</p> <p>Inhalation LC50: Product generates methyl alcohol which may cause blindness and possible death if swallowed.</p> <p>Eye Effects: Blindness - Complete information not available.</p> <p>Skin Effects: Powder, lyophilized</p> <p>Liquid, Transparent brown colored liquid</p> <p>General Comments: Methyl alcohol causes central nervous system depression.</p>

Section 12. Ecological Information

Environmental Data	No information available
Additional Information	<p>Aquatic Toxicity (Acute)</p> <p>Toxicity to fish LC50: Cyprinus carpio (Carp) - 55mg/l - 96h</p> <p>LC0: Cyprinus carpio (carp) - 30mg/l - 96h</p> <p>Toxicity to daphnia and other aquatic invertebrates EC50: Daphnia magna (water flea) - 473mg/l - 48h</p> <p>Toxicity to algae EC50: Desmodesmus subspicatus (green algae) - 255mg/l - 72h</p>

Section 13. Disposal

Method	Incineration recommended. Follow all federal, state and local regulations.
Empty Container	Containers of this material may be hazardous when empty since they retain product residues (liquids). Observe all warnings and precautions listed for this product.
Comments	<p>It is recommended that waste generators determine whether a discarded chemical is classified as a hazardous waste.</p> <p>Additionally, waste generators must consult with their waste broker and state and local hazardous waste regulations to ensure complete and accurate classification.</p> <p>Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements.</p> <p>US EPA guidelines for classification determination are listed on 40CFR Parts 261.3</p>

Section 14. Transport Information

UN Number	N/A
UN Proper Shipping Name	Not Regulated
DOT Classification	N/A
Packing Group	N/A
Transport	Not Dangerous Goods

Section 15. Regulatory Information

TSCA	<p>United States</p> <p>TSCA (Toxic Substances Control Act)</p> <p>Status: This product is listed on the TSCA inventory.</p>
Additional Information	<p>This product does not contain any chemical components subject to reporting requirements for SARA 302 or SARA 313</p> <p>SARA 311/312 Hazards - Acute Health Hazard</p> <p>Massachusetts Right to Know - Not subject</p> <p>Pennsylvania/New Jersey Right to Know - [3-(2,3-Epoxypropyl)propyl]trimethoxysilane, CAS 2530-83-8 Revision Date</p> <p>California Prop 65 - Does not contain any chemicals known to cause cancer, birth defects or any other reproductive harm.</p>

Section 16. Other Information

Revision Date	2/16/2021
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Manufacturer Disclaimer	The data in this Safety Data Sheet relates only to the specific material(s) designated herein. It does not relate to use in combination with any other material or in any process.
Manufacturer Supplemental Notes Statement	<p>All technical data is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.</p> <p>THE INFORMATION AND RECOMMENDATIONS CONTAINED IN THIS SAFETY DATA SHEET HAVE BEEN COMPILED FROM SOURCES BELIEVED TO BE RELIABLE AND TO REPRESENT THE BEST OPINION ON THE SUBJECT AS OF THE DATE ON THIS SHEET. HOWEVER, NO WARRANTY, GUARANTEE OR REPRESENTATION, EXPRESSED OR IMPLIED, IS MADE BY UCT, INC. AS TO THE CORRECTNESS OR SUFFICIENCY OF THIS INFORMATION OR TO THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.</p>
Additional Information	<p>HMIS Rating</p> <p>Health - 2</p> <p>Flammability - 1</p> <p>Physical Hazard - 0</p> <p>Personal Protection - I</p> <p>NFPA Codes</p> <p>Health Hazard -2</p> <p>Flammable Hazard - 1</p> <p>Reactivity - 0</p>