

# **SAFETY DATA SHEET**

Creation Date 22-Sep-2009 Revision Date 11-Feb-2022 Revision Number 3

1. Identification

Product Name (3-Glycidoxypropyl)trimethoxysilane

Cat No. : A18431

CAS No 2530-83-8 Synonyms GLYMO

Recommended Use Laboratory chemicals.

Uses advised against Food, drug, pesticide or biocidal product use.

## Details of the supplier of the safety data sheet

Company

Alfa Aesar

Thermo Fisher Scientific Chemicals, Inc.

30 Bond Street

Ward Hill, MA 01835-8099

Tel: 800-343-0660 Fax: 800-322-4757 **Email:** tech@alfa.com

www.alfa.com

Emergency Telephone Number During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660.

After normal business hours, call Carechem 24 at (866) 928-0789.

# 2. Hazard(s) identification

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious Eye Damage/Eye Irritation Category 1

Label Elements

Signal Word

Danger

**Hazard Statements** 

Causes serious eye damage



## **Precautionary Statements**

#### Prevention

Wear protective gloves/protective clothing/eye protection/face protection

#### Eves

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

### Hazards not otherwise classified (HNOC)

Harmful to aquatic life with long lasting effects

# 3. Composition/Information on Ingredients

Component	CAS No	Weight %
Glycidoxypropyltrimethoxysilane	2530-83-8	<=100

## 4. First-aid measures

**General Advice** If symptoms persist, call a physician.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists,

call a physician.

**Inhalation** Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if

symptoms occur.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and

effects

Causes severe eye damage.

Notes to Physician Treat symptomatically

## 5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Chemical foam.

Unsuitable Extinguishing Media No information available

**Flash Point** 122 °C / 251.6 °F

Method - No information available

Autoignition Temperature 400 °C / 752 °F

**Explosion Limits** 

Upper No data available
Lower No data available

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

### **Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition.

#### **Hazardous Combustion Products**

Carbon monoxide (CO). Carbon dioxide (CO2). Silicon dioxide. Methanol.

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

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IN	Г	Г.	н

Health	Flammability	Instability	Physical hazards
2	1	1	N/A

### 6. Accidental release measures

Personal Precautions
Environmental Precautions

Ensure adequate ventilation. Use personal protective equipment as required.

Should not be released into the environment. Do not flush into surface water or sanitary

sewer system.

**Methods for Containment and Clean** Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. **Up** 

	7. Handling and storage
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation.
Storage.	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Incompatible Materials. Bases. Water. Strong oxidizing agents. Strong acids. Peroxides.

# 8. Exposure controls / personal protection

**Exposure Guidelines** 

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations

and safety showers are close to the workstation location.

### Personal Protective Equipment

**Eye/face Protection** Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

**Skin and body protection**Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard

EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and chemical properties

Physical State Liquid Appearance Clear

**Odor** Odorless

Odor Threshold<br/>pHNo information available<br/>No information availableMelting Point/RangeNo data available

Boiling Point/Range 120 °C / 248 °F @ 2 mmHg

Flash Point 122 °C / 251.6 °F
Evaporation Rate No information available
Flammability (solid,gas) Not applicable

Flammability (solid,gas)
Flammability or explosive limits

Upper No data available
Lower No data available
Vapor Pressure No information available

Vapor Density8.15Specific Gravity1.070SolubilitySolub

SolubilitySoluble in waterPartition coefficient; n-octanol/waterNo data availableAutoignition Temperature400 °C / 752 °FDecomposition TemperatureNo information availableViscosity4 mPa.s at 20 °C

Viscosity 4 mPa.s at 20 °C Molecular Formula C9 H20 O5 Si Molecular Weight 236.34

# 10. Stability and reactivity

Reactive Hazard None known, based on information available

**Stability** Moisture sensitive.

Conditions to Avoid Incompatible products.

Incompatible Materials Bases, Water, Strong oxidizing agents, Strong acids, Peroxides

Hazardous Decomposition Products Carbon monoxide (CO<sub>2</sub>), Carbon dioxide (CO<sub>2</sub>), Silicon dioxide, Methanol

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

# 11. Toxicological information

#### **Acute Toxicity**

### **Product Information**

**Component Information** 

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Glycidoxypropyltrimethoxysilane	LD50 = 7.01 g/kg (Rat)	LD50 = 3.97 mL/kg ( Rabbit )	LC50 > 5.3 mg/L (Rat) 4 h

Toxicologically Synergistic No information available

**Products** 

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Risk of serious damage to eyes

Sensitization No information available

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Glycidoxypropyltrimeth	2530-83-8	Not listed				
oxysilane						

Mutagenic Effects May cause heritable genetic damage

**Reproductive Effects**No information available.

**Developmental Effects** No information available.

**Teratogenicity** No information available.

STOT - single exposure None known STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and No information available

delayed

**Endocrine Disruptor Information** No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

## 12. Ecological information

#### **Ecotoxicity**

Do not empty into drains. Contains a substance which is:. Harmful to aquatic organisms. The product contains following substances which are hazardous for the environment. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Glycidoxypropyltrimethoxysil	Not listed	LC50: = 55 mg/L, 96h	Not listed	Not listed
ane		semi-static (Cyprinus carpio)		

Persistence and Degradability Soluble in water Persistence is unlikely based on information available.

**Bioaccumulation/ Accumulation** No information available.

**Mobility** Will likely be mobile in the environment due to its water solubility.

# 13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and

nazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

DOTNot regulatedTDGNot regulatedIATANot regulatedIMDG/IMONot regulated

## 15. Regulatory information

### United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Glycidoxypropyltrimethoxysilane	2530-83-8	X	ACTIVE	TP

#### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TP - Indicates a substance that is the subject of a proposed TSCA Section 4 test rule

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

Not applicable

TSCA 12(b) - Notices of Export

Not applicable

## **International Inventories**

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Glycidoxypropyltrimethoxysilane	2530-83-8	X	-	219-784-2	X	X	Х	Х	Х	KE-34368

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

**OSHA** - Occupational Safety and

Health Administration

Not applicable

CERCLA Not applicable

**California Proposition 65** This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know

Regulations

Not applicable

### **U.S. Department of Transportation**

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland

Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Glycidoxypropyltrimethoxysila ne	2530-83-8	Listed	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive	Seveso III Directive	Rotterdam	Basel Convention

		(2012/18/EC) - (2012/18/EC) - Qualifying Quantities		Convention (PIC)	(Hazardous Waste)
		for Major Accident Notification	for Safety Report Requirements		
Glycidoxypropyltrimethoxysila ne	2530-83-8	Not applicable	Not applicable	Not applicable	Not applicable

## 16. Other information

Prepared By Health, Safety and Environmental Department

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**Revision Summary** SDS authoring systems update, replaces ChemGes SDS No. 2530-83-8/1.

## **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of SDS**