



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION:

3-Glycidoxypropyltrimethoxysilane
3-(2,3-Epoxypropoxy)propyltrimethoxysilane; GLYMO;
CAS NO.: 2530-83-8

Manufacturer: Shandong Wanda Organosilicon New Materials Co.,Ltd.
Xizhou, Qufu, Shandong,, China

For more information call (Monday-Friday, 8:30am-5:30pm): 86-021-54177116
In case of emergency call (24 Hours/Day, 7 Days/Week): 86-0537-4631478

2. COMPOSITION, INFORMATION ON INGREDIENTS:

| CAS# | Chemical Name | % | EINECS# | Haz Symbols | Risk Phrases |
|-----------|-----------------------------------|-----|-----------|-------------|--------------|
| 2530-83-8 | 3-Glycidoxypropyltrimethoxysilane | 97% | 219-784-2 | XN | 21 36/38 |

3. HAZARDS IDENTIFICATION:

EMERGENCY OVERVIEW

Harmful in contact with skin. Irritating to eyes and skin.

Potential Health Effects

Eye:

Causes eye irritation.

Skin:

Causes skin irritation. May be harmful if absorbed through the skin.

Ingestion:

May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause central nervous system depression.

Inhalation:

May cause respiratory tract irritation.

Chronic:

May cause reproductive and fetal effects. Effects may be delayed.

Laboratory experiments have resulted in mutagenic effects.

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| 山东万达有机硅新材料有限公司(上海办事处) | Shandong Wanda Organosilicon New Material Co., Ltd. (Shanghai Office) |
| 联系地址: 上海市闵行区碧泉路1弄304室 | Address: 304#, No. 1 Biquan Rd. Minhang, Shanghai, China |
| Tel/Fax: 0086-21-54177116; 54177336 | Website: http://www.wandasilicon.com/ |
| Email: 002@wandachem.com | MSN: wandachem803@hotmail.com |



4. FIRST AID MEASURES:

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin:

Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion:

Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES:

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas. Contact with water liberates highly flammable gases.

Extinguishing Media:

Do NOT get water inside containers. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

6. ACCIDENTAL RELEASE MEASURES:

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Clean up spills immediately, observing precautions in the Protective Equipment section. Provide ventilation. Do not get water inside containers.

7. HANDLING AND STORAGE:

Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Use with adequate ventilation. Do not allow contact with water. Keep from contact with moist air and steam. Avoid breathing vapor or mist.

Storage:

Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from moisture.

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8. EXPOSURE CONTROLS, PERSONAL PROTECTION:

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits CAS# 2530-83-8: Personal Protective Equipment Eyes: Wear chemical splash goggles.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical State: Liquid

Color: clear, colorless

Odor: None reported.

pH: Not available.

Vapor Pressure: Not available.

Viscosity: 4 MPA 20.00 deg C

Boiling Point: 120 deg C @ 2 mmHg

Freezing/Melting Point: Not available.

Autoignition Temperature: 400 deg C (752.00 deg F)

Flash Point: 122 deg C (251.60 deg F)

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature:

Solubility in water: Reacts.

Specific Gravity/Density: 1.0700 g/cm³

Molecular Formula: C₉H₂₀O₅Si

Molecular Weight: 236.34

10. STABILITY AND REACTIVITY:

Chemical Stability:

Stable under normal temperatures and pressures. Material generates methanol on contact with water or moisture on the skin, eyes and mucous membranes.

Conditions to Avoid:

Excess heat, Reacts with water to form methanol. The heat of the reaction may ignite the vapor of the alcohol..

Incompatibilities with Other Materials:

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Water, strong oxidizing agents, strong acids.

Hazardous Decomposition Products:

Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, silicon dioxide, formaldehyde, methanol.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION:

RTECS#:

CAS# 2530-83-8: VV4025000 LD50/LC50:

CAS# 2530-83-8: Draize test, rabbit, eye: 100 mg Mild; Oral, rat: LD50 = 22600 uL/kg; Skin, rabbit: LD50 = 3970 uL/kg.

Carcinogenicity:

3-Glycidoxypropyltrimethoxysilane - Not listed by ACGIH, IARC, or NTP.

Other:

See actual entry in RTECS for complete information.

12. ECOLOGICAL INFORMATION:

NOT LISTED

13. DISPOSAL CONSIDERATIONS:

Dispose of in a manner consistent with federal, state, and local regulations.

14. TRANSPORT INFORMATION:

IATA

Not regulated as a hazardous material.

IMO

Not regulated as a hazardous material.

RID/ADR

Not regulated as a hazardous material.

15. REGULATORY INFORMATION:

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN

Risk Phrases:

R 21 Harmful in contact with skin.

R 36/38 Irritating to eyes and skin.

Safety Phrases:

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

S 28A After contact with skin, wash immediately with

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plenty of water.

WGK (Water Danger/Protection)

CAS# 2530-83-8: 1

Canada

CAS# 2530-83-8 is listed on Canada's DSL List.

CAS# 2530-83-8 is not listed on Canada's Ingredient Disclosure List.

US FEDERAL

TSCA

CAS# 2530-83-8 is listed on the TSCA inventory.

16. ADDITIONAL INFORMATION:

MSDS Issue Date: 05/08/2010 Revision #0 Date: Original.

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