

MATERIAL SAFETY DATA SHEETDate Updated: 03.07.2006
Version: 3.0**ORGANOSILANE G301******** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION *****MSDS Name: **Organosilane G301**

Chemical Name: 3-Glycidoxypropyltrimethoxysilane, 97%

Company Identification: Dalian Onichem Co., Ltd.

218-220, No. 2 Gaoxin Street, Qixianling, Dalian 116023, P.R. China

Tel: 86-411-84794022, Fax: 86-411-84794077

For emergencies, call CHEMTREC 1-800-424-9300 or 1-202-483-7616

****** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ******

CAS# Chemical Name, %

2530-83-8 3-Glycidoxypropyltrimethoxysilane, 97% min

67-56-1 Methanol, 0.5% max

****** SECTION 3 - HAZARDS IDENTIFICATION ******

Not applicable.

****** SECTION 4 - FIRST AID MEASURES ******

Swallowing: If patient is fully conscious, give two glasses of water. Induce vomiting. Obtain medical attention without delay. If medical advice is delayed, and if the person has swallowed a moderate volume of material (+/- 50 ml), then give +/- 100 ml of hard liquor, such as whiskey. For children, give proportionally less liquor, according to weight.

Inhalation: Remove to fresh air. Obtain medical attention if symptoms persist.

Skin contact: Remove contaminated clothing. Wash skin with soap and water. Obtain medical attention if irritation persists. Wash clothing before reuse.

Eye contact: Immediately flush eyes with water and continue washing for at least 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist.

Notes to physician: This product reacts with moisture in the acid contents of the stomach to form methanol. The combination of visual disturbances, metabolic acidosis, and formic acid in the urine is evidence of methanol poisoning. The therapeutic intravenous administration of ethanol (10 ml per hour) allows it to be preferentially oxidized and reduced production of methanol metabolites. Acidosis must be treated by means of intravenous sodium bicarbonate and methanol elimination may be increased by hemodialysis, as indicated. Treatment should be based on blood methanol levels and acid-base balance. Folates may be administered to enhance the metabolism of formaldehyde. 4-Methyl pyrazole has been suggested as an antidote: because of its alcohol dehydrogenase inhibiting effects, it reduces the production of formate and the development of metabolic acidosis. However, the value of this antidote remains to be proven in humans.

****** SECTION 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.

Extinguishing Media: Do NOT use water directly on fire. Use foam, dry chemical, or carbon dioxide.

NFPA Rating: Not published.

Explosion Limits, Lower: N/A. **Upper:** N/A.

****** SECTION 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., dry sand or earth), then place into a chemical waste container.

MATERIAL SAFETY DATA SHEET

Date Updated: 03.07.2006

Version: 3.0

****** SECTION 7 - HANDLING and STORAGE ******

Handling: Provide good ventilation or extraction.

Storage: Cool and dry area.

****** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ******

Engineering Controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment

Eyes: Wear safety glasses and chemical goggles if splashing is possible.

Skin: Wear appropriate protective gloves and clothing to prevent skin exposure.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

****** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ******

Physical State: Liquid

Color: Transparent pale-coloured

Odor: Ester

Boiling Point: 290

Freezing Point: <-70

Flash Point: 110 . method: pensky-martens closed cup ASTM D 93

Flammability limits in air (% by volume): Not determined

Specific Gravity: 1.069 at 25

Vapour Pressure: <1.3 hpa at 20

Vapour Density (air=1): >1

Evaporation Rate (butyl acetate =1): <1

Solubility in water: Reacts slowly

Percent Volatiles: <2%

Molecular Formula: C9H20O5Si

Molecular Weight: 236.34

****** SECTION 10 - STABILITY AND REACTIVITY ******

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: N/A.

Incompatibilities with Other Materials: Strong oxidizing agents, moist air or water.

Hazardous Decomposition Products: carbon monoxide, carbon dioxide, silicone

Hazardous Polymerization: Has not been reported.

****** SECTION 11 - TOXICOLOGICAL INFORMATION ******

Oral Toxicity - rat, LD50: 8030 mg/kg

Carcinogenicity: Not listed by ACGIH, IARC, NIOSH, NTP or OSHA.

****** SECTION 12 - ECOLOGICAL INFORMATION ******

Ecotoxicity: N/A.

****** SECTION 13 - DISPOSAL CONSIDERATIONS ******

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

Not listed as a material banned from land disposal according to RCRA.

****** SECTION 14 - TRANSPORT INFORMATION ******

This product is not listed in ADR/RID, IMDG, DOT, ICAO

MATERIAL SAFETY DATA SHEET

Date Updated: 03.07.2006
Version: 3.0

ONICHEM
Onichem Specialities
www.onichem.com

**** SECTION 15 - REGULATORY INFORMATION ****

Not listed by EC CLASSIFICATION.

**** SECTION 16 - ADDITIONAL INFORMATION ****

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we have been advised of the possibility of such damages.