

MATERIAL SAFETY DATA SHEET

Date Updated: 29.08.2007

Version: 3.0

Regulation EC No. 1907/2006

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, %	EC No.
2530-83-8	3-Glycidoxypropyltrimethoxysilane, 97% min	219-784-2

****** SECTION 3 - HAZARDS IDENTIFICATION ********3.1 Hazards Classifications**

Hazard symbols: NONE

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3.2 Emergency Overview And Potential Hazards

Eye contact: Direct contact may cause mild irritation.

Skin contact: May cause moderate irritation.

Inhalation: Vapor may irritate nose and throat. Vapor overexposure may cause drowsiness.

Oral: Overexposure by ingestion may cause effects similar to those listed under repeated exposure.

3.3 Further information:

No known applicable information.

****** 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.

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****** 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.

****** 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 (PPE)

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/Density: 1.069 @ 25

Vapour Pressure: <1.3 hpa @ 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: 8,030 mg/kg

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

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

12.1 Elimination Information (persistence and degradability)

Biodegradation: Value - 37%. Method - EC 79/831

12.2 Behaviour in environmental compartments

Complete information is not yet available.

12.3 Ecotoxicity effects:

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Toxicity species	Result	Species	Duration of exposure	Method
Fish toxicity	LC50: 55mg/l	Cyprinus carpio	96 h	EC 92/69
Daphnia toxicity	EC50: 473mg/l	Daphnia magna	48 h	EC 92/69
Algae toxicity	EC50: 255mg/l	Scenedesmus subspicatus	72 h	EC 92/69
Bacteria toxicity	EC10: 1,500mg/l	Pseudomonas putida	5 h	-

12.4 Further ecological information

Do not discharge product unmonitored into the environment.

****** 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 ******

Not classified as dangerous in the meaning of transport regulations.

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

Labelling according to EC Directives

Statutory basis/list: Not subject to labeling provisions by Directive 67/548/EEC

Risk Phrases:

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S61: Avoid release to the environment. Refer to special instructions / Safety data sheets.

****** 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.