

#### (3-GLYCIDOXYPROPYL)METHYLDIETHOXYSILANE

Safety Data Sheet SIG5832.0 Date of issue: 01/12/2015 Version: 1.0

	stance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Physical state	
Substance name	: (3-GLYCIDOXYPROPYL)METHYLDIETHOXYSILANE
Product code	: SIG5832.0
Formula	
Synonyms	: 3-(2,3-EPOXYPROPOXYPROPYL)METHYLDIETHOXYSILANE; [3-(2,3- EPOXYPROPOXY)PROPYL]DIETHOXYMETHYLSILANE; 3-
Chemical family	(METHYLDIETHOXYSILYL)PROPYL GLYCIDYL ETHER : ORGANOETHOXYSILANE
	stance or mixture and uses advised against
Use of the substance/mixture	: Chemical intermediate For research and industrial use only
1.3. Details of the supplier of the safety	data sheet
GELEST, INC.	
11 East Steel Road	
Morrisville, PA 19067 USA	
T 215-547-1015 - F 215-547-2484 - (M-F): 8:00	AM - 5:30 PM EST
info@gelest.com - www.gelest.com 1.4. Emergency telephone number	
1.4. Emergency telephone number Emergency number	: CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)
	. Chelwhitec. 1-800-424-9500 (USA), +1705-527-5887 (International)
SECTION 2: Hazards identification	
2.1. Classification of the substance or m	nixture
Classification (GHS-US)	
Skin Irrit. 2 H315	
Eye Irrit. 2A H319	
Full text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	
	GHS07
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H315 - Causes skin irritation
	H319 - Causes serious eye irritation
Precautionary statements (GHS-US)	: P280 - Wear protective gloves/protective clothing/eye protection/face protection
	P264 - Wash hands thoroughly after handling P302+P352 - If on skin: Wash with plenty of water
	P332+P313 - If skin irritation occurs: Get medical advice/attention
	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing P337+P313 - If eye irritation persists: Get medical advice/attention
	P362 - Take off contaminated clothing and wash before reuse
2.3. Other hazards	
Other hazards not contributing to the	: The hydrolysis product of this compound is ethanol. Overexposure to ethanol by skin
classification	absorption, inhalation or ingestion may have a narcotic effect (headache, nausea, drowsiness).
	Ethanol is metabolized to acetaldehyde and acetic acid which in large quantities result in metabolic acidosis, CNS depression and death due to respiratory arrest. This product reacts
	with water in the acid contents of the stomach to form ethanol.
2.4. Unknown acute toxicity (GHS-US)	
No data available	

SECTION 3: Composition/information on ingredients				
3.1. Substance				
Substance type Name CAS No EC no			THOXYSILANE	
Name		Product identifier	%	Classification (GHS-US)
(3-Glycidoxypropyl)methyldiethoxysilane		(CAS No) 2897-60-1	> 95	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Ethanol		(CAS No) 64-17-5		Flam. Liq. 2, H225 Carc. 1A, H350 STOT SE 3, H335

#### 3.2. Mixture

Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if not available show packaging or label.
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Wash with plenty of soap and water. Get medical advice/attention.
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Get medical advice/attention.
4.2. Most important symptoms and effe	cts, both acute and delayed
Symptoms/injuries after inhalation	: May cause irritation to the respiratory tract. Overexposure may cause: Coughing. Headache. Nausea.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: May be harmful if swallowed.
Chronic symptoms	: On contact with water this compound liberates ethanol which is known to have a chronic effect on the central nervous system.

4.3. Indication of any immediate medical attention and special treatment needed

NOTE TO PHYSICIAN: This product reacts with water in the acid contents of the stomach to form ethanol.

SECT	ION 5: Firefighting measures	
5.1.	Extinguishing media	
Suitable	e extinguishing media	: Water spray. Foam. Carbon dioxide. Dry chemical.
5.2.	Special hazards arising from the s	ubstance or mixture
Fire ha	zard	: Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.
Reactivity		: Can react exothermically with amines.
5.3.	Advice for firefighters	
Firefigh	ting instructions	: Use water spray to cool exposed surfaces. Exercise caution when fighting any chemical fire.
Protect	ion during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Avoid all eye and skin contact and do not breathe vapor and mist.

SECTION	SECTION 6: Accidental release measures				
6.1.	Personal precautions, protective equipment and emergency procedures				
6.1.1. Emergen	For non-emergency personnel cy procedures	: Evacuate unnecessary personnel.			
6.1.2. Protective	For emergency responders e equipment	: Equip cleanup crew with proper protection.			
6.2.	Environmental precautions				
<b>D</b>					

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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6.3. Methods and material		01	le uning on obserbant motorial to collect it. Ourser an
Methods for cleaning up	:	shovel spills into appropriate containe	le, using an absorbent material to collect it. Sweep or r for disposal.
6.4. Reference to other se			
See Heading 8. Exposure contro	· ·	otection.	
SECTION 7: Handling an			
7.1. Precautions for safe I	-		
Precautions for safe handling	:	Avoid all eye and skin contact and do general room ventilation.	not breathe vapor and mist. Provide local exhaust or
Hygiene measures	:	•	s with mild soap and water before eating, drinking or h contaminated clothing before reuse.
7.2. Conditions for safe st	torage, including	any incompatibilities	
Storage conditions	:	Keep container tightly closed.	
Incompatible materials	:	Amines. Moisture. Water.	
Storage area	:	Store in a well-ventilated place. Store	away from heat.
7.3. Specific end use(s)			
No additional information availab	le		
SECTION 8: Exposure co	ontrols/person	al protection	
8.1. Control parameters			
Ethanol (64-17-5)			
USA ACGIH	ACGIH STEL (ppr	m)	1000 ppm
USA NIOSH	NIOSH REL (TWA	A) (mg/m³)	1900 mg/m³
USA NIOSH	NIOSH REL (TWA		1000 ppm
USA OSHA	OSHA PEL (TWA	) (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA)		1900 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA)		1000 ppm
USA OSHA USA IDLH 8.2. Exposure controls	OSHA PEL (TWA) US IDLH (ppm)	) (ppm)	1000 ppm 3300 ppm (10% LEL)
USA OSHA USA IDLH 8.2. Exposure controls Appropriate engineering controls	OSHA PEL (TWA) US IDLH (ppm)	) (ppm) Provide local exhaust or general room	1000 ppm 3300 ppm (10% LEL) ventilation. rgency eye wash fountains and safety showers should b
USA OSHA USA IDLH 8.2. Exposure controls Appropriate engineering controls Personal protective equipment	OSHA PEL (TWA) US IDLH (ppm)	) (ppm) Provide local exhaust or general room Avoid all unnecessary exposure. Eme	1000 ppm 3300 ppm (10% LEL) ventilation. rgency eye wash fountains and safety showers should b
USA OSHA USA IDLH 8.2. Exposure controls Appropriate engineering controls Personal protective equipment Hand protection Eye protection	OSHA PEL (TWA) US IDLH (ppm)	) (ppm) Provide local exhaust or general room Avoid all unnecessary exposure. Eme available in the immediate vicinity of a Neoprene or nitrile rubber gloves. Chemical goggles. Contact lenses sho	1000 ppm 3300 ppm (10% LEL) ventilation. rgency eye wash fountains and safety showers should b ny potential exposure.
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USA OSHA USA IDLH 8.2. Exposure controls Appropriate engineering controls Personal protective equipment Hand protection Eye protection Skin and body protection Respiratory protection SECTION 9: Physical and	OSHA PEL (TWA) US IDLH (ppm)	) (ppm) Provide local exhaust or general room Avoid all unnecessary exposure. Eme available in the immediate vicinity of a Neoprene or nitrile rubber gloves. Chemical goggles. Contact lenses sho Wear suitable protective clothing. NIOSH-certified organic vapor (black operties	1000 ppm 3300 ppm (10% LEL) reventilation. rgency eye wash fountains and safety showers should b ny potential exposure.
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Polotivo vonor donoity et 20 %	4			
Relative vapor density at 20 °C	: >1			
Relative density	: 0.978			
Solubility	: Reacts with water.			
Log Pow	: No data available			
Log Kow	: No data available			
Viscosity, kinematic	: 3 cSt			
Viscosity, dynamic	: No data available			
Explosive properties	: No data available			
Oxidizing properties	: No data available			
Explosive limits	: No data available			
9.2. Other information				
No additional information available				
SECTION 40. Stability and recetivity				
SECTION 10: Stability and reactivity				
10.1. Reactivity				
Can react exothermically with amines.				
10.2. Chemical stability				
Stable in sealed containers.				
10.3. Possibility of hazardous reactions				
Reacts with water and moisture in air, liberating e	thanol.			
10.4. Conditions to avoid				
Heat. Open flame. Sparks.				
10.5. Incompatible materials				
Amines. Moisture. Water.				
10.6. Hazardous decomposition products				
Ethanol. Organic acid vapors.				
SECTION 11: Toxicological information				
11.1. Information on toxicological effects				
11.1.         Information on toxicological effects           Acute toxicity	: Not classified			
11.1.         Information on toxicological effects           Acute toxicity         (3-Glycidoxypropyl)methyldiethoxysilane (28)	: Not classified			
11.1.         Information on toxicological effects           Acute toxicity         (3-Glycidoxypropyl)methyldiethoxysilane (28)           LD50 oral rat         (28)	: Not classified			
11.1.       Information on toxicological effects         Acute toxicity       (3-Glycidoxypropyl)methyldiethoxysilane (28)         LD50 oral rat       Ethanol (64-17-5)	: Not classified 397-60-1) > 2000 mg/kg			
11.1.       Information on toxicological effects         Acute toxicity       (3-Glycidoxypropyl)methyldiethoxysilane (28)         LD50 oral rat       Ethanol (64-17-5)         LC50 inhalation rat (mg/l)       LC50 inhalation rat (mg/l)	: Not classified 397-60-1) > 2000 mg/kg 124.7 mg/l/4h			
11.1.       Information on toxicological effects         Acute toxicity       (3-Glycidoxypropyl)methyldiethoxysilane (24)         LD50 oral rat       Ethanol (64-17-5)         LC50 inhalation rat (mg/l)       Skin corrosion/irritation	<ul> <li>Not classified</li> <li>397-60-1)         <ul> <li>&gt; 2000 mg/kg</li> </ul> </li> <li>124.7 mg/l/4h         <ul> <li>: Causes skin irritation.</li> </ul> </li> </ul>			
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11.1.       Information on toxicological effects         Acute toxicity       (3-Glycidoxypropyl)methyldiethoxysilane (28)         LD50 oral rat       Ethanol (64-17-5)         LC50 inhalation rat (mg/l)       Skin corrosion/irritation         Serious eye damage/irritation       Respiratory or skin sensitization	<ul> <li>Not classified</li> <li>397-60-1)         <ul> <li>&gt; 2000 mg/kg</li> </ul> </li> <li>124.7 mg/l/4h         <ul> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> <li>Not classified</li> </ul> </li> </ul>			
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11.1.Information on toxicological effectsAcute toxicity(3-Glycidoxypropyl)methyldiethoxysilane (20)LD50 oral ratEthanol (64-17-5)LC50 inhalation rat (mg/l)Skin corrosion/irritationSerious eye damage/irritationRespiratory or skin sensitizationGerm cell mutagenicity	<ul> <li>Not classified</li> <li>397-60-1)         <ul> <li>&gt; 2000 mg/kg</li> </ul> </li> <li>124.7 mg/l/4h</li> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> <li>Causes serious eye irritation.</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>			
11.1.       Information on toxicological effects         Acute toxicity       (3-Glycidoxypropyl)methyldiethoxysilane (28)         LD50 oral rat       Ethanol (64-17-5)         LC50 inhalation rat (mg/l)       Skin corrosion/irritation         Serious eye damage/irritation       Respiratory or skin sensitization         Germ cell mutagenicity       Carcinogenicity	<ul> <li>Not classified</li> <li>397-60-1)         <ul> <li>&gt; 2000 mg/kg</li> </ul> </li> <li>124.7 mg/l/4h</li> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> <li>Causes serious eye irritation.</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>			
11.1.       Information on toxicological effects         Acute toxicity       (3-Glycidoxypropyl)methyldiethoxysilane (28)         LD50 oral rat       Ethanol (64-17-5)         LC50 inhalation rat (mg/l)       Skin corrosion/irritation         Serious eye damage/irritation       Respiratory or skin sensitization         Germ cell mutagenicity       Carcinogenicity         Ethanol (64-17-5)       Ethanol (64-17-5)	<ul> <li>Not classified</li> <li>397-60-1) <ul> <li>&gt; 2000 mg/kg</li> </ul> </li> <li>124.7 mg/l/4h</li> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> <li>Causes serious eye irritation.</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>			
11.1.       Information on toxicological effects         Acute toxicity       (3-Glycidoxypropyl)methyldiethoxysilane (24)         LD50 oral rat       Ethanol (64-17-5)         LC50 inhalation rat (mg/l)       Skin corrosion/irritation         Serious eye damage/irritation       Respiratory or skin sensitization         Germ cell mutagenicity       Carcinogenicity         Ethanol (64-17-5)       IARC group	<ul> <li>Not classified</li> <li>397-60-1)</li> <li>&gt; 2000 mg/kg</li> <li>124.7 mg/l/4h</li> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> <li>Causes serious eye irritation.</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>I - Carcinogenic to humans</li> </ul>			
11.1.       Information on toxicological effects         Acute toxicity       (3-Glycidoxypropyl)methyldiethoxysilane (28)         LD50 oral rat       Ethanol (64-17-5)         LC50 inhalation rat (mg/l)       Skin corrosion/irritation         Serious eye damage/irritation       Respiratory or skin sensitization         Germ cell mutagenicity       Carcinogenicity         Ethanol (64-17-5)       IARC group         Reproductive toxicity       Specific target organ toxicity (single exposure)	<ul> <li>Not classified</li> <li>397-60-1) <ul> <li>&gt; 2000 mg/kg</li> </ul> </li> <li>124.7 mg/l/4h</li> <li>Causes serious eye irritation.</li> <li>Causes serious eye irritation.</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul> <li>1 - Carcinogenic to humans <ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul> </li>			
11.1.       Information on toxicological effects         Acute toxicity       (3-Glycidoxypropyl)methyldiethoxysilane (24)         LD50 oral rat       Ethanol (64-17-5)         LC50 inhalation rat (mg/l)       Skin corrosion/irritation         Serious eye damage/irritation       Serious eye damage/irritation         Respiratory or skin sensitization       Germ cell mutagenicity         Carcinogenicity       Ethanol (64-17-5)         IARC group       Reproductive toxicity         Specific target organ toxicity (single exposure)       Specific target organ toxicity (repeated exposure)	<ul> <li>Not classified</li> <li>397-60-1) <ul> <li>&gt; 2000 mg/kg</li> </ul> </li> <li>124.7 mg/l/4h</li> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> <li>Causes serious eye irritation.</li> <li>Not classified</li> <li>Not classified</li> </ul> <li>1 - Carcinogenic to humans <ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul> </li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li>			
11.1.       Information on toxicological effects         Acute toxicity       (3-Glycidoxypropyl)methyldiethoxysilane (28)         LD50 oral rat       Ethanol (64-17-5)         LC50 inhalation rat (mg/l)       Skin corrosion/irritation         Serious eye damage/irritation       Respiratory or skin sensitization         Germ cell mutagenicity       Carcinogenicity         Ethanol (64-17-5)       IARC group         Reproductive toxicity       Specific target organ toxicity (single exposure)         Specific target organ toxicity (repeated	<ul> <li>Not classified</li> <li>397-60-1) <ul> <li>&gt; 2000 mg/kg</li> </ul> </li> <li>124.7 mg/l/4h</li> <li>Causes serious eye irritation.</li> <li>Causes serious eye irritation.</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul> <li>1 - Carcinogenic to humans <ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul> </li>			
11.1.       Information on toxicological effects         Acute toxicity       (3-Glycidoxypropyl)methyldiethoxysilane (24)         LD50 oral rat       Ethanol (64-17-5)         LC50 inhalation rat (mg/l)       Skin corrosion/irritation         Serious eye damage/irritation       Respiratory or skin sensitization         Germ cell mutagenicity       Carcinogenicity         Ethanol (64-17-5)       IARC group         Reproductive toxicity       Specific target organ toxicity (single exposure)         Specific target organ toxicity (repeated exposure)	<ul> <li>Not classified</li> <li>397-60-1) <ul> <li>&gt; 2000 mg/kg</li> </ul> </li> <li>124.7 mg/l/4h</li> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> <li>Causes serious eye irritation.</li> <li>Not classified</li> <li>Not classified</li> </ul> <li>1 - Carcinogenic to humans <ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul> </li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li>			
11.1.       Information on toxicological effects         Acute toxicity       (3-Glycidoxypropyl)methyldiethoxysilane (28)         LD50 oral rat       Ethanol (64-17-5)         LC50 inhalation rat (mg/l)       Skin corrosion/irritation         Serious eye damage/irritation       Respiratory or skin sensitization         Germ cell mutagenicity       Carcinogenicity         Ethanol (64-17-5)       IARC group         Reproductive toxicity       Specific target organ toxicity (single exposure)         Specific target organ toxicity (repeated exposure)       Aspiration hazard	<ul> <li>Not classified</li> <li>397-60-1)</li> <li>&gt; 2000 mg/kg</li> <li>124.7 mg/l/4h</li> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> <li>Causes serious eye irritation.</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>1 - Carcinogenic to humans</li> <li>Not classified</li> <li>Mot classified</li> <li>Mot classified</li> <li>Mot classified</li> <li>Mot classified</li> <li>Mot classified</li> <li>Not classified</li> <li>Not classified</li> <li>May cause irritation to the respiratory tract. Overexposure may cause: Coughing. Headache.</li> </ul>			
<b>11.1.</b> Information on toxicological effects         Acute toxicity         (3-Glycidoxypropyl)methyldiethoxysilane (28)         LD50 oral rat         Ethanol (64-17-5)         LC50 inhalation rat (mg/l)         Skin corrosion/irritation         Serious eye damage/irritation         Respiratory or skin sensitization         Germ cell mutagenicity         Carcinogenicity         Ethanol (64-17-5)         IARC group         Reproductive toxicity         Specific target organ toxicity (single exposure)         Specific target organ toxicity (repeated exposure)         Aspiration hazard         Symptoms/injuries after inhalation	<ul> <li>Not classified</li> <li>397-60-1) <ul> <li>&gt; 2000 mg/kg</li> </ul> </li> <li>124.7 mg/l/4h</li> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> <li>Causes serious eye irritation.</li> <li>Causes serious eye irritation.</li> <li>Not classified</li> <li>Not classified</li> </ul> <li>1 - Carcinogenic to humans <ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul> </li> <li>Not classified</li>			
<b>11.1.</b> Information on toxicological effects         Acute toxicity         (3-Glycidoxypropyl)methyldiethoxysilane (28)         LD50 oral rat         Ethanol (64-17-5)         LC50 inhalation rat (mg/l)         Skin corrosion/irritation         Serious eye damage/irritation         Respiratory or skin sensitization         Germ cell mutagenicity         Carcinogenicity         Ethanol (64-17-5)         IARC group         Reproductive toxicity         Specific target organ toxicity (single exposure)         Specific target organ toxicity (repeated exposure)         Aspiration hazard         Symptoms/injuries after inhalation         Symptoms/injuries after skin contact	<ul> <li>Not classified</li> <li>397-60-1) <ul> <li>&gt; 2000 mg/kg</li> </ul> </li> <li>124.7 mg/l/4h</li> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> <li>Causes serious eye irritation.</li> <li>Not classified</li> <li>Not classified</li> </ul> <li>1 - Carcinogenic to humans <ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul> </li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Source irritation to the respiratory tract. Overexposure may cause: Coughing. Headache. Nausea.</li> <li>Causes skin irritation.</li>			
11.1.       Information on toxicological effects         Acute toxicity       (3-Glycidoxypropyl)methyldiethoxysilane (28)         LD50 oral rat       Ethanol (64-17-5)         LC50 inhalation rat (mg/l)       Skin corrosion/irritation         Serious eye damage/irritation       Respiratory or skin sensitization         Germ cell mutagenicity       Carcinogenicity         Ethanol (64-17-5)       IARC group         Reproductive toxicity       Specific target organ toxicity (single exposure)         Specific target organ toxicity (repeated exposure)       Specific target organ toxicity (repeated exposure)         Aspiration hazard       Symptoms/injuries after skin contact         Symptoms/injuries after skin contact       Symptoms/injuries after eye contact	<ul> <li>Not classified</li> <li>397-60-1) <ul> <li>&gt; 2000 mg/kg</li> </ul> </li> <li>124.7 mg/l/4h</li> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> <li>Not classified</li> <li>Not classified</li> </ul> <li>1 - Carcinogenic to humans <ul> <li>Not classified</li> </ul> </li> <li>1 - Carcinogenic to humans</li> <li>Not classified</li> <li>1 - Carcinogenic to humans <ul> <li>Not classified</li> </ul> </li> <li>1 - Carcinogenic to humans</li> <li>Not classified</li> <li>1 - Carcinogenic to humans <ul> <li>Not classified</li> </ul> </li> <li>1 - Carcinogenic to humans</li> <li>Not classified</li> <li>1 - Carcinogenic to humans <ul> <li>Not classified</li> </ul> </li> <li>1 - Carcinogenic to humans</li> <li>Causei field</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Causei ritation to the respiratory tract. Overexposure may cause: Coughing. Headache. Nausea.</li> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li>			
11.1.       Information on toxicological effects         Acute toxicity       (3-Glycidoxypropyl)methyldiethoxysilane (28)         LD50 oral rat       Ethanol (64-17-5)         LC50 inhalation rat (mg/l)       Skin corrosion/irritation         Serious eye damage/irritation       Respiratory or skin sensitization         Germ cell mutagenicity       Carcinogenicity         Ethanol (64-17-5)       IARC group         Reproductive toxicity       Specific target organ toxicity (single exposure)         Specific target organ toxicity (repeated exposure)       Specific target organ toxicity (repeated exposure)         Aspiration hazard       Symptoms/injuries after inhalation         Symptoms/injuries after skin contact       Symptoms/injuries after eye contact	<ul> <li>Not classified</li> <li>397-60-1) <ul> <li>&gt; 2000 mg/kg</li> </ul> </li> <li>124.7 mg/l/4h</li> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> <li>Not classified</li> <li>Not classified</li> </ul> <li>1 - Carcinogenic to humans <ul> <li>Not classified</li> </ul> </li> <li>1 - Carcinogenic to humans</li> <li>Not classified</li> <li>1 - Carcinogenic to humans <ul> <li>Not classified</li> </ul> </li> <li>1 - Carcinogenic to humans</li> <li>Not classified</li> <li>1 - Carcinogenic to humans <ul> <li>Not classified</li> </ul> </li> <li>1 - Carcinogenic to humans</li> <li>Not classified</li> <li>2 Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Causes irritation to the respiratory tract. Overexposure may cause: Coughing. Headache. Nausea.</li> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> <li>Causes serious eye irritation.</li> <li>May be harmful if swallowed.</li>			
11.1.Information on toxicological effectsAcute toxicity(3-Glycidoxypropyl)methyldiethoxysilane (28 LD50 oral ratEthanol (64-17-5)LC50 inhalation rat (mg/l)Skin corrosion/irritationSerious eye damage/irritationRespiratory or skin sensitizationGerm cell mutagenicityCarcinogenicityEthanol (64-17-5)IARC groupReproductive toxicitySpecific target organ toxicity (single exposure)Specific target organ toxicity (repeated exposure)Aspiration hazardSymptoms/injuries after skin contactSymptoms/injuries after eye contactSymptoms/injuries after eye contactSymptoms/injuries after ingestion	<ul> <li>Not classified</li> <li>397-60-1) <ul> <li>&gt; 2000 mg/kg</li> </ul> </li> <li>124.7 mg/l/4h</li> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> <li>Not classified</li> <li>Not classified</li> </ul> <li>1 - Carcinogenic to humans <ul> <li>Not classified</li> </ul> </li> <li>1 - Carcinogenic to humans</li> <li>Not classified</li> <li>1 - Carcinogenic to humans <ul> <li>Not classified</li> </ul> </li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Statiant classified</li> <li>Statiant classified</li> <li>Statiant classified</li> <li>Statiant classified</li> <li>Causes irritation to the respiratory tract. Overexposure may cause: Coughing. Headache. Nausea.</li> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> <li>May be harmful if swallowed.</li> <li>On contact with water this compound liberates ethanol which is known to have a chronic effect</li>			

Ethanol (64-17-5)	
LC50 fish 1	12.0 - 16.0 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 1	9268 - 14221 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 2	2 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
2.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
Ethanol (64-17-5)	
Log Pow	-0.32
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
Effect on ozone layer	: No additional information available
Effect on the global warming	: No known ecological damage caused by this product.
SECTION 13: Disposal consideration	
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13.1. Waste treatment methods	- Marcha Indonesia di Diana da ante ante ante ante ante da la 1966 de la 1967 de la 1967 de la 1967 de la 1967
Waste disposal recommendations	: May be incinerated. Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.
SECTION 14: Transport information	
14.1. UN number	
Not regulated for transport.	
14.2. UN proper shipping name	
Not applicable	
14.3. Additional information	
Other information	: No supplementary information available.
Transport by sea	
No additional information available	
Air transport	
No additional information available	
SECTION 15: Regulatory information	1
15.1. US Federal regulations	
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### (3-GLYCIDOXYPROPYL)METHYLDIETHOXYSILANE

Safety Data Sheet

(3-GLYCIDOXYPROPYL					
•	J	No			
U.S California - Proposition 65 - Developmental Toxicity		No			
U.S California - Proposition 65 - Reproductive Toxicity - Female		No			
U.S California - Proposi Toxicity - Male	ition 65 - Reproductive	No			
(3-Glycidoxypropyl)met	hyldiethoxysilane (2897-60-1)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk leve (NSRL)	
No	No	No	No		
Ethanol (64-17-5)		•	- •		
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk leve (NSRL)	
Yes	Yes	No	No		
U.S Massachusetts - Al U.S Massachusetts - O U.S Massachusetts - Ti U.S Massachusetts - Ti U.S Massachusetts - Ti U.S Minnesota - Chemi U.S Minnesota - Chemi U.S Minnesota - Hazard U.S Ninnesota - Permis U.S New Hampshire - F U.S New Hampshire - F U.S New Hampshire - F U.S New Jersey - Spec U.S New Jersey - Spec U.S New York - Occupa U.S North Dakota - Air U.S Oregon - Permissit U.S Pennsylvania - RTH	nreshold Effects Exposure Limits tional Exposure Limits - TWAs cals of High Concern dous Substance List ssible Exposure Limits - TWAs Regulated Toxic Air Pollutants - A to Know Hazardous Substance ial Health Hazards Substances L ational Exposure Limits - TWAs Pollutants - Guideline Concentra ole Exposure Limits - TWAs	oundwater Reportable Concer oundwater Reportable Concer portable Quantity il Reportable Concentration - il Reportable Concentration - s (TELs) Ambient Air Levels (AALs) - 24 Ambient Air Levels (AALs) - 24 Ambient Air Levels (AALs) - An List List	htration - Reporting Category 2 Reporting Category 1 Reporting Category 2		
U.S Texas - Effects Scr U.S Texas - Effects Scr	tin - Aerosol Paint and Glue Res eening Levels - Long Term eening Levels - Short Term ible Exposure Limits - TWAs	strictions			

#### SECTION 16: Other information

Abbreviations and acronyms : Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development.

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Full text of H-phrases::	
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1 107		
	Carc. 1A	Carcinogenicity Category 1A
	Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
	Flam. Liq. 2	Flammable liquids Category 2
	Skin Irrit. 2	Skin corrosion/irritation Category 2
	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
	H225	Highly flammable liquid and vapor
	H315	Causes skin irritation
	H319	Causes serious eye irritation
	H335	May cause respiratory irritation
	H350	May cause cancer

#### **HMIS III Rating**

Health Flammability Physical : 2 Moderate Hazard - Temporary or minor injury may occur

- : 1 Slight Hazard
- : 1 Slight Hazard

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SDS US (GHS HazCom 2012) - Custom

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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