

Safety Data Sheet SIH6164.2 Date of issue: 06/29/2015 Version:

Version: 1.0

SECTION 1: Identification of the sub	ostance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Physical state	: Liquid
Substance name	: 5-HEXENYLTRIETHOXYSILANE, 95%
Product code	: SIH6164.2
Formula	: C12H26O3Si
Synonyms	: TRIETHOXYSILYLHEXENE : ORGANOETHOXYSILANE
Chemical family	
1.2. Relevant identified uses of the subs	stance or mixture and uses advised against
Use of the substance/mixture	: Chemical intermediate For research 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	
info@gelest.com - www.gelest.com	AIM - 5.30 PIM EST
1.4. Emergency telephone number	- OUENTDEC. 4 000 404 0000 (UCA): +4 700 507 0007 (Ustanovica all
Emergency number	: CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)
SECTION 2: Hazards identification	
2.1. Classification of the substance or n	nixture
Classification (GHS-US)	
Flam. Liq. 4 H227 Eye Irrit. 2A H319	
Full text of H-phrases: see section 16	
Full text of H-philases. see section 10	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	
	GHS07
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H227 - Combustible liquid
	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 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 P210 - Keep away from heat, open flames, sparks No smoking P370+P378 - In case of fire: Use water spray or fog, foam, carbon dioxide, dry chemical to extinguish P403+P235 - Keep in a cool place P501 - Dispose of contents/container to licensed waste disposal facility.
2.3. Other hazards	
Other hazards not contributing to the classification	: The hydrolysis product of this compound is ethanol. Overexposure to ethanol by skin 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 contains ethanol which is classified as a carcinogen by IARC in alcoholic beverages.
2.4. Unknown acute toxicity (GHS US)	
No data available	
00/20/2045	ENL (Explicit LIC) SDS ID: SILICITA 2 Dogo 4

5-HEXENYLTRIETHOXYSILANE, 95% Safety Data Sheet

Substance type	· Mone			
Name	type : Mono-constituent : 5-HEXENYLTRIETHOXYSILANE, 95%			
CAS No		4-14-7		
Name		Product identifier	%	Classification (CHS US)
5-Hexenyltriethoxysilane		(CAS No) 52034-14-7	> 95	Classification (GHS-US) Flam. Liq. 4, H227
o nexelyline nexysitate			2 30	Eye Irrit. 2A, H319
Ethanol		(CAS No) 64-17-5		Flam. Liq. 2, H225 Carc. 1A, H350 STOT SE 3, H335 Aquatic Acute 2, H401
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
4.1. Description of first aid measure	es			
First-aid measures general	medi	ove contaminated clothing and shoes. cal advice immediately (show the labe able show packaging or label.		
First-aid measures after inhalation	unwe	ove victim to fresh air and keep at rest II, seek medical advice.	t in a position com	fortable for breathing. If you feel
First-aid measures after skin contact				
First-aid measures after eye contact	 Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses present and easy to do. Continue rinsing. Get medical advice/attention. Never give anything by mouth to an unconscious person. Get medical advice/attention. 			
First-aid measures after ingestion			scious person. Ge	t medical advice/attention.
4.2. Most important symptoms and				
Symptoms/injuries after inhalation	-	cause irritation to the respiratory tract.		
Symptoms/injuries after skin contact		cause skin irritation.		
Symptome/injurios after ave contact	· Cours	as sorious ava irritation		
Symptoms/injuries after eye contact		es serious eye irritation.		
Symptoms/injuries after ingestion	: No in	formation available.		
Symptoms/injuries after ingestion 4.3. Indication of any immediate me	: No in			
Symptoms/injuries after ingestion 4.3. Indication of any immediate mono- No additional information available SECTION 5: Firefighting measur	: No in edical attentio	formation available.		
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Safety Data Sheet

6.4. Reference to other sections	
See Heading 8. Exposure controls and person	nal protection.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	 Provide good ventilation in process area to prevent accumulation of vapors. Avoid all eye and skin contact and do not breathe vapor and mist. Take precautionary measures against static discharge. Use only non-sparking tools.
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, inclu	ding any incompatibilities
Technical measures	: Ground/bond container and receiving equipment.
Storage conditions	: Keep container tightly closed.
Incompatible materials	: Oxidizing agent.
Storage area	: Store in a well-ventilated place. Store away from heat.
7.3. Specific end use(s)	

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters		
Ethanol (64-17-5)		
USA ACGIH	ACGIH STEL (ppm)	1000 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	1900 mg/m ³
USA NIOSH	NIOSH REL (TWA) (ppm)	1000 ppm
USA OSHA	OSHA PEL (TWA) (mg/m ³)	1900 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
USA IDLH	US IDLH (ppm)	3300 ppm (10% LEL)
8.2. Exposure controls		
Appropriate engineering control	s : Provide lo	ocal exhaust or general room ventilation.
Personal protective equipment		unnecessary exposure. Emergency eye wash fountains and safety showers should be in the immediate vicinity of any potential exposure.
Hand protection	: Neoprene	or nitrile rubber gloves.
Eye protection	: Chemical	goggles. Contact lenses should not be worn.
Skin and body protection	: Wear suita	able protective clothing.
Respiratory protection		posure through inhalation may occur from use, respiratory protection equipment is nded. NIOSH-certified organic vapor (black cartridge) respirator.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Appearance	: Clear liquid.	
Molecular mass	: 246.43 g/mol	
Color	: No data available	
Odor	: Characteristic.	
Odor threshold	: No data available	
Refractive index	: 1.4185	
pH	: No data available	
Relative evaporation rate (butyl acetate=1)	: <1	
Melting point	: No data available	
Freezing point	: <0°C	
Boiling point	: 97 °C @ 1 mm Hg	
Flash point	: 86 °C	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: Combustible liquid	
Vapor pressure	∶ < 0.5 mm Hg @ 25°C	

5-HEXENYLTRIETHOXYSILANE, 95% Safety Data Sheet

Relative vapor density at 20 °C	: >1
Relative density	: 0.883
VOC content	: 100 %
Solubility	: Insoluble in water. Reacts with water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable.	
10.3. Possibility of hazardous reactions	
Material decomposes slowly in contact with moist	t air or with water liberating ethanol.
10.4. Conditions to avoid	
Heat. Open flame. Sparks.	
Oxidizing agent.	
10.6. Hazardous decomposition products	
Ethanol. Organic acid vapors. Silicon dioxide.	
SECTION 11: Toxicological informati	on
1111 Intermation on toxicological offects	
11.1. Information on toxicological effects	· Not descrifted
11.1. Information on toxicological effects Acute toxicity	: Not classified
Acute toxicity Ethanol (64-17-5)	
Acute toxicity Ethanol (64-17-5) LD50 oral rat	7060 mg/kg
Acute toxicity Ethanol (64-17-5)	
Acute toxicity Ethanol (64-17-5) LD50 oral rat	7060 mg/kg
Acute toxicity Ethanol (64-17-5) LD50 oral rat LC50 inhalation rat (mg/l)	7060 mg/kg 124.7 mg/l/4h
Acute toxicity Ethanol (64-17-5) LD50 oral rat LC50 inhalation rat (mg/l) ATE US (oral)	7060 mg/kg 124.7 mg/l/4h 7060.000 mg/kg body weight
Acute toxicity Ethanol (64-17-5) LD50 oral rat LC50 inhalation rat (mg/l) ATE US (oral) ATE US (vapors)	7060 mg/kg 124.7 mg/l/4h 7060.000 mg/kg body weight 124.700 mg/l/4h
Acute toxicity Ethanol (64-17-5) LD50 oral rat LC50 inhalation rat (mg/l) ATE US (oral) ATE US (vapors) ATE US (dust, mist)	7060 mg/kg 124.7 mg/l/4h 7060.000 mg/kg body weight 124.700 mg/l/4h 124.700 mg/l/4h
Acute toxicity Ethanol (64-17-5) LD50 oral rat LC50 inhalation rat (mg/l) ATE US (oral) ATE US (vapors) ATE US (dust, mist) Skin corrosion/irritation	7060 mg/kg 124.7 mg/l/4h 7060.000 mg/kg body weight 124.700 mg/l/4h 124.700 mg/l/4h : Not classified
Acute toxicity Ethanol (64-17-5) LD50 oral rat LC50 inhalation rat (mg/l) ATE US (oral) ATE US (vapors) ATE US (dust, mist) Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization	7060 mg/kg 124.7 mg/l/4h 7060.000 mg/kg body weight 124.700 mg/l/4h 124.700 mg/l/4h 124.700 mg/l/4h : Not classified : Causes serious eye irritation.
Acute toxicity Ethanol (64-17-5) LD50 oral rat LC50 inhalation rat (mg/l) ATE US (oral) ATE US (vapors) ATE US (dust, mist) Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity	7060 mg/kg 124.7 mg/l/4h 7060.000 mg/kg body weight 124.700 mg/l/4h 124.700 mg/l/4h 124.700 mg/l/4h 2 Not classified 2 2 Not classified 2 Not classified 2 Not classified 2 Not classified 2 2 3 4 4 4 5 4 4 5 5 6 6 7 6 6 7 6 7 6 6 7 6 7 7 7 7 7 7 7 7 7 7 7 7
Acute toxicity Ethanol (64-17-5) LD50 oral rat LC50 inhalation rat (mg/l) ATE US (oral) ATE US (vapors) ATE US (dust, mist) Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity	7060 mg/kg 124.7 mg/l/4h 7060.000 mg/kg body weight 124.700 mg/l/4h 124.700 mg/l/4h 124.700 mg/l/4h : Not classified : Causes serious eye irritation. : Not classified
Acute toxicity Ethanol (64-17-5) LD50 oral rat LC50 inhalation rat (mg/l) ATE US (oral) ATE US (vapors) ATE US (dust, mist) Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Ethanol (64-17-5)	7060 mg/kg 124.7 mg/l/4h 7060.000 mg/kg body weight 124.700 mg/l/4h 124.700 mg/l/4h 124.700 mg/l/4h 2 Not classified 2 2 Not classified 2 Not classified 2 Not classified 3 3 4 4 4 4 4 5 5 6 4 4 4 4 4 5 6 4 </td
Acute toxicity Ethanol (64-17-5) LD50 oral rat LC50 inhalation rat (mg/l) ATE US (oral) ATE US (vapors) ATE US (dust, mist) Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity	7060 mg/kg 124.7 mg/l/4h 7060.000 mg/kg body weight 124.700 mg/l/4h 124.700 mg/l/4h 124.700 mg/l/4h 2 Not classified 2 2 Not classified 2 Not classified 2 Not classified 2 Not classified 2 2 3 4 4 4 5 4 4 5 5 6 6 7 6 6 7 6 7 6 6 7 6 7 7 7 7 7 7 7 7 7 7 7 7
Acute toxicity Ethanol (64-17-5) LD50 oral rat LC50 inhalation rat (mg/l) ATE US (oral) ATE US (vapors) ATE US (dust, mist) Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Ethanol (64-17-5)	7060 mg/kg 124.7 mg/l/4h 7060.000 mg/kg body weight 124.700 mg/l/4h 124.700 mg/l/4h 124.700 mg/l/4h 2 Not classified 2 2 Not classified 2 Not classified 2 Not classified 3 3 4 4 4 4 4 5 5 6 4 4 4 4 4 5 6 4 </td
Acute toxicity Ethanol (64-17-5) LD50 oral rat LC50 inhalation rat (mg/l) ATE US (oral) ATE US (vapors) ATE US (dust, mist) Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Ethanol (64-17-5) IARC group	7060 mg/kg 124.7 mg/l/4h 7060.000 mg/kg body weight 124.700 mg/l/4h 124.700 mg/l/4h 124.700 mg/l/4h 2 Causes serious eye irritation. 2 Not classified 3 Not classified 2 Not classified 3 Not classified 3 Not classified 4 Not classified 5 Not classified 6 Not classified 7 Not classified 7 Not classified 1 - Carcinogenic to humans
Acute toxicity Ethanol (64-17-5) LD50 oral rat LC50 inhalation rat (mg/l) ATE US (oral) ATE US (vapors) ATE US (dust, mist) 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)	7060 mg/kg 124.7 mg/l/4h 7060.000 mg/kg body weight 124.700 mg/l/4h 124.700 mg/l/4h 124.700 mg/l/4h 2 Not classified 2 Causes serious eye irritation. 2 Not classified 3 Not classified 4 Not classified 5 Not classified 6 Not classified 7 Not classified 9 Not classified 1 - Carcinogenic to humans 1 Not classified
Acute toxicity Ethanol (64-17-5) LD50 oral rat LC50 inhalation rat (mg/l) ATE US (oral) ATE US (oral) ATE US (vapors) ATE US (dust, mist) Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Ethanol (64-17-5) IARC group Reproductive toxicity	7060 mg/kg 124.7 mg/l/4h 7060.000 mg/kg body weight 124.700 mg/l/4h 124.700 mg/l/4h 124.700 mg/l/4h 2 Causes serious eye irritation. 2 Not classified 3 Not classified 3 Not classified 4 Not classified 5 Not classified 6 Not classified 7 Not classified 8 Not classified 9 Not classified 10 Not classified
Acute toxicity Ethanol (64-17-5) LD50 oral rat LC50 inhalation rat (mg/l) ATE US (oral) ATE US (vapors) ATE US (dust, mist) 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)	7060 mg/kg 124.7 mg/l/4h 7060.000 mg/kg body weight 124.700 mg/l/4h 124.700 mg/l/4h 124.700 mg/l/4h 2 Not classified • Causes serious eye irritation. • Not classified
Acute toxicity Ethanol (64-17-5) LD50 oral rat LC50 inhalation rat (mg/l) ATE US (oral) ATE US (vapors) ATE US (dust, mist) 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	7060 mg/kg 124.7 mg/l/4h 7060.000 mg/kg body weight 124.700 mg/l/4h 124.700 mg/l/4h : Not classified : Causes serious eye irritation. : Not classified
Acute toxicity Ethanol (64-17-5) LD50 oral rat LC50 inhalation rat (mg/l) ATE US (oral) ATE US (vapors) ATE US (dust, mist) 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 Potential Adverse human health effects and	7060 mg/kg 124.7 mg/l/4h 7060.000 mg/kg body weight 124.700 mg/l/4h 124.700 mg/l/4h 124.700 mg/l/4h 2 Not classified • Causes serious eye irritation. • Not classified
Acute toxicity Ethanol (64-17-5) LD50 oral rat LC50 inhalation rat (mg/l) ATE US (oral) ATE US (vapors) ATE US (dust, mist) 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 Potential Adverse human health effects and symptoms	7060 mg/kg 124.7 mg/l/4h 7060.000 mg/kg body weight 124.700 mg/l/4h 104 classified 104 classified 1 Not classified 1 Not classified 1 Not classified 2 Not classified 2 Not classified 3 Not classified 4 Not classified 5 Not classified 5 Not
Acute toxicity Ethanol (64-17-5) LD50 oral rat LC50 inhalation rat (mg/l) ATE US (oral) ATE US (vapors) ATE US (dust, mist) 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 Potential Adverse human health effects and symptoms Symptoms/injuries after inhalation	7060 mg/kg 124.7 mg/l/4h 7060.000 mg/kg body weight 124.700 mg/l/4h 125.700 mg/l/4h 104.700 mg/l/4h 104.700 mg/l/4h 105.7000 mg/l/4h 105.7000 mg/l/4h 106.7000 mg/l/4h 107.7000
Acute toxicity Ethanol (64-17-5) LD50 oral rat LC50 inhalation rat (mg/l) ATE US (oral) ATE US (vapors) ATE US (dust, mist) 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 Potential Adverse human health effects and symptoms Symptoms/injuries after inhalation Symptoms/injuries after skin contact	7060 mg/kg 124.7 mg/l/4h 7060.000 mg/kg body weight 124.700 mg/l/4h 104.700 mg/l/4h 105.700 mg/l/4h 106.700 mg/l/4h 107.700 mg/
Acute toxicity	7060 mg/kg 124.7 mg/l/4h 7060.000 mg/kg body weight 124.700 mg/kg body weight 124.700 mg/kg body weight 124.700 mg/kg 124.700 mg/l/4h 125.700 mg/l/4h 126.700 mg/l/4h 127.700 mg/l/4h 128.700 mg/l/4h 129.700 mg/l/4h 129.700 mg/l/4h 129.700 mg/l/4h 129.700 mg/l/4h 1 - Carcinogenic to humans
Acute toxicity	7060 mg/kg 124.7 mg/l/4h 7060.000 mg/kg body weight 124.700 mg/l/4h 125.700 mg/l/4h 126.7000 mg/l/4h 127.700 mg/l/4h 140.700 mg/l/4h 140.700 mg/l/4h 150.7000 mg/l/4h 150.7000 mg/l/4h 161.7000 mg/l/4h 162.7000 mg/l/4h 17.700
Acute toxicity	7060 mg/kg 124.7 mg/l/4h 7060.000 mg/kg body weight 124.700 mg/kg body weight 124.700 mg/kg body weight 124.700 mg/kg 124.700 mg/l/4h 125.700 mg/l/4h 126.700 mg/l/4h 127.700 mg/l/4h 128.700 mg/l/4h 129.700 mg/l/4h 129.700 mg/l/4h 129.700 mg/l/4h 129.700 mg/l/4h 1 - Carcinogenic to humans

5-HEXENYLTRIETHOXYSILANE, 95% Safety Data Sheet

SECTION 12: Ecological information			
12.1. Toxicity			
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])		
12.2. 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			
Other adverse effects	: This substance may be hazardous to the environment.		
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	s		
13.1. Waste treatment methods	5		
Waste disposal recommendations	: Incinerate. Dispose in a safe manner in accordance with local/national regulations. Dispose of		
	contents/container to licensed waste disposal facility.		
Ecology - waste materials	: Avoid release to the environment.		
SECTION 14: Transport information			
14.1. UN number			
DOT NA no.	NA1993		
14.2. UN proper shipping name			
Proper Shipping Name (DOT)	: Combustible liquid, n.o.s.		
	(5-HEXENYLTRIETHOXYSILANE)		
Department of Transportation (DOT) Hazard Classes	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120		
DOT Symbols	: D - Proper shipping name for domestic use only, or to and from Canada,G - Identifies PSN		
Decking group (DOT)	requiring a technical name		
Packing group (DOT) DOT Packaging Exceptions (49 CFR 173.xxx)	: III - Minor Danger		
DOT Packaging Exceptions (49 CFR 173.xxx) DOT Packaging Non Bulk (49 CFR 173.xxx)	: 150 : 203		
DOT Packaging Bulk (49 CFR 173.xxx)	: 203		
14.3. Additional information	· No supplementary information available		
Other information	: No supplementary information available.		
Transport by soc			
Transport by sea DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a		
DOT Vessel Slowage Location	passenger vessel.		
Air transport			
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L		
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L		

Safety Data Sheet

SECTION 15: Regula	tory information			
15.1. US Federal regulatio	ns			
5-HEXENYLTRIETHOXYS	SILANE, 95% (52034-14-7	7)		
TSCA Exemption/Exclusio	F e 7	CAUTION: This material is supplie temption under TSCA, 40 C xemption, including supervision by 20.3(ee). The use of this material s not permitted in the United States	FR 720.36, and must meet the y a "technically qualified individu for "commercial purposes" as o	requirements of the ual" as defined by 40 CFR
Ethanol (64-17-5)				
Listed on the United States	s TSCA (Toxic Substance	s Control Act) inventory		
5-Hexenyltriethoxysilane	e (52034-14-7)			
Not listed on the United St	tates TSCA (Toxic Substa	nces Control Act) inventory		
15.2. International regulati	ions			
Ethanol (64-17-5)				
Listed on the EEC invento Listed on the Japanese EN Listed on the Korean ECL Listed on NZIOC (New Zea	SL (Domestic Sustances L ry of Existing Chemical Su rry EINECS (European Inv NCS (Existing & New Chen (Existing Chemicals List) aland Inventory of Chemicals hes Inventory of Chemicals L (Ingredient Disclosure L national Inventory of Chem	ist) bstances Produced or Imported in entory of Existing Commercial Che mical Substances) inventory als) s and Chemical Substances) ist)		
5-Hexenyltriethoxysilane 15.3. US State regulations 5-HEXENYLTRIETHOXYSI				
U.S California - Propositio		No		
U.S California - Propositio Toxicity	on 65 - Developmental	No		
U.S California - Propositio Toxicity - Female		No		
U.S California - Propositio Toxicity - Male	on 65 - Reproductive	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 level (NSRL)
Yes	Yes	No	No	
5-Hexenyltriethoxysilane (52034-14-7)				
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 level (NSRL)
No	No	No	No	
SECTION 16: Other in	nformation			

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.

Full text of H-phrases:: Aquatic Acute 2

Hazardous to the aquatic environment - Acute Hazard Category 2

Safety Data Sheet

Carc. 1A	Carcinogenicity Category 1A	
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A	
Flam. Liq. 2	Flammable liquids Category 2	
Flam. Liq. 4	Flammable liquids Category 4	
STOT SE 3	Specific target organ toxicity (single exposure) Category 3	
H225	Highly flammable liquid and vapor	
H227	Combustible liquid	
H319	Causes serious eye irritation	
H335	May cause respiratory irritation	
H350	May cause cancer	
H401	Toxic to aquatic life	

HMIS III Rating

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

- : 2 Moderate 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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