

(3-TRIETHOXYSILYL)PROPYLSUCCINIC ANHYDRIDE, 95%

Safety Data Sheet SIT8192.6 Date of issue: 01/09/2015 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking				
1.1. Product identifier	Stance	mixture and of the company/under	taking	
Product form	: Subs	tance		
Physical state : Lic				
,		-TRIETHOXYSILYL)PROPYLSUCCINIC ANHYDRIDE, 95%		
Product code		, · · · · · · · · · · · · · · · · · · ·		
Product code : SIT8192.6 Formula : C13H24O6Si				
Synonyms	: 3-(TRIETHOXYSILYL)PROPYLDIHYDRO-3,5-FURANDIONE; DIHYDRO-3-[3-			
	(TRIETHOXYSILYL)PROPYL]FURAN-2,5-DIONE			
Chemical family	: ORG	ANOETHOXYSILANE		
1.2. Relevant identified uses of the subst	tance or	mixture and uses advised against		
Use of the substance/mixture		nical intermediate esearch and industrial use only		
1.3. Details of the supplier of the safety of	lata she	et		
GELEST, INC. 11 East Steel Road Morrisville, PA 19067 USA T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 A info@gelest.com	AM - 5:30	PM EST		
1.4. Emergency telephone number				
Emergency number	: CHEI	MTREC: 1-800-424-9300 (USA); +1 703-527-3	887 (Inter	national)
SECTION 2: Hazards identification				
2.1. Classification of the substance or m	ixture			
Classification (GHS-US) Eye Irrit. 2B H320 Full text of H-phrases: see section 16				
2.2. Label elements				
GHS-US labeling				
Signal word (GHS-US)	: Warn	ing		
Hazard statements (GHS-US)	: H320	- Causes eye irritation		
Precautionary statements (GHS-US) : 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				
2.3. Other hazards				
Other hazards not contributing to the classification		ification (GHS-UN). Acute toxicity (oral) Categ ssified as a carcinogen by IARC in alcoholic be		s product contains ethanol which
2.4. Unknown acute toxicity (GHS-US)				
No data available				
SECTION 3: Composition/information	n on in	gredients		
3.1. Substance				
Substance type : Mono-constituent				
Name : (3-TRIETHOXYSILYL)PROPYLSUCCINIC ANHYDRIDE, 95%				
CAS No : 93642-68-3				
EC no : 297-566-6				
Name Product identifier % Classification (GHS-US)				
Dihydro-3-[3-(triethoxysilyl)propyl]furan-2,5-dione		(CAS No) 93642-68-3	> 95	Eye Irrit. 2B, H320
Ethanol		(CAS No) 64-17-5		Flam. Liq. 2, H225 Carc. 1A, H350 STOT SE 3, H335

3.2.	Mixture	
Not appli		
	ON 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. Call a physician.
First-aid	measures after skin contact	: Wash with plenty of soap and water.
First-aid	measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if presen 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 ef	ects, both acute and delayed
Sympton	ms/injuries after inhalation	: May cause irritation to the respiratory tract. Overexposure may cause: Cough. Headache. Nausea.
Sympton	ms/injuries after skin contact	: May cause skin irritation.
Sympton	ms/injuries after eye contact	: Causes eye irritation.
Sympton	ms/injuries after ingestion	: May be harmful if swallowed.
4.3.	Indication of any immediate medi	al attention and special treatment needed
No additi	tional information available	
SECTI	ON 5: Firefighting measures	
5.1.	Extinguishing media	
	extinguishing media	: Water spray. Foam. Carbon dioxide. Dry chemical.
i.2.	Special hazards arising from the	
Fire haza		: Irritating fumes and organic acid vapors may develop when material is exposed to elevated
ine maze		temperatures or open flame.
5.3.	Advice for firefighters	
- irefighti	ing instructions	: Use water spray to cool exposed surfaces. Exercise caution when fighting any chemical fire.
Protectio	on 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.
SECTI	ON 6: Accidental release me	
6.1.		asures
	Personal precautions, protective	
		asures quipment and emergency procedures
6.1.1.	For non-emergency personnel	quipment and emergency procedures
6.1.1.		
6.1.1. Emerger 6.1.2.	For non-emergency personnel ncy procedures For emergency responders	quipment and emergency procedures : Evacuate unnecessary personnel.
6.1.1. Emerger 6.1.2.	For non-emergency personnel ncy procedures	quipment and emergency procedures
5.1.1. Emerger 5.1.2. Protectiv 5.2.	For non-emergency personnel ncy procedures For emergency responders we equipment Environmental precautions	quipment and emergency procedures : Evacuate unnecessary personnel. : Equip cleanup crew with proper protection.
6.1.1. Emerger 6.1.2. Protectiv 6.2.	For non-emergency personnel ncy procedures For emergency responders we equipment Environmental precautions	quipment and emergency procedures : Evacuate unnecessary personnel.
6.1.1. Emerger 6.1.2. Protectiv 6.2. Prevent	For non-emergency personnel ncy procedures For emergency responders we equipment Environmental precautions	quipment and emergency procedures : Evacuate unnecessary personnel. : Equip cleanup crew with proper protection. ify authorities if liquid enters sewers or public waters.
6.1.1. Emerger 6.1.2. Protectiv 6.2. Prevent 6	For non-emergency personnel ncy procedures For emergency responders we equipment Environmental precautions entry to sewers and public waters. No	quipment and emergency procedures : Evacuate unnecessary personnel. : Equip cleanup crew with proper protection. ify authorities if liquid enters sewers or public waters.
6.1.1. Emerger 6.1.2. Protectiv 6.2. Prevent (6.3. Methods	For non-emergency personnel ncy procedures For emergency responders we equipment Environmental precautions entry to sewers and public waters. No Methods and material for contain	quipment and emergency procedures : Evacuate unnecessary personnel. : Equip cleanup crew with proper protection. ify authorities if liquid enters sewers or public waters. rent and cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or
5.1.1. Emerger 5.1.2. Protectiv 5.2. Prevent 6 5.3. Methods 5.4.	For non-emergency personnel ncy procedures For emergency responders we equipment Environmental precautions entry to sewers and public waters. No Methods and material for contain s for cleaning up	quipment and emergency procedures : Evacuate unnecessary personnel. : Equip cleanup crew with proper protection. ify authorities if liquid enters sewers or public waters. nent and cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or shovel spills into appropriate container for disposal.
5.1.1. Emerger 5.1.2. Protectiv 5.2. Prevent 6 5.3. Methods 5.4. See Hea	For non-emergency personnel ncy procedures For emergency responders we equipment Environmental precautions entry to sewers and public waters. No Methods and material for contain is for cleaning up Reference to other sections ading 8. Exposure controls and person	quipment and emergency procedures : Evacuate unnecessary personnel. : Equip cleanup crew with proper protection. ify authorities if liquid enters sewers or public waters. nent and cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or shovel spills into appropriate container for disposal.
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6.1.1. Emerger 6.1.2. Protectiv 6.2. Prevent 6 6.3. Methods 6.4. See Hea SECTI 7.1. Precautio Hygiene	For non-emergency personnel ncy procedures For emergency responders we equipment Environmental precautions entry to sewers and public waters. No Methods and material for contain s for cleaning up Reference to other sections ading 8. Exposure controls and person ION 7: Handling and storage Precautions for safe handling ions for safe handling emeasures	quipment and emergency procedures : Evacuate unnecessary personnel. : Equip cleanup crew with proper protection. ify authorities if liquid enters sewers or public waters. nent and cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or shovel spills into appropriate container for disposal. al protection. : Use only in well ventilated areas. Avoid all eye and skin contact and do not breathe vapor and mist. : 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.
5.1.1. Emerger 5.1.2. Protectiv 6.2. Prevent of 5.3. Methods 5.4. See Hea SECTIO 7.1. Precaution Hygiene	For non-emergency personnel ncy procedures For emergency responders we equipment Environmental precautions entry to sewers and public waters. No Methods and material for contain s for cleaning up Reference to other sections ading 8. Exposure controls and person ON 7: Handling and storage Precautions for safe handling ions for safe handling measures Conditions for safe storage, inclu	quipment and emergency procedures : Evacuate unnecessary personnel. : Equip cleanup crew with proper protection. ify authorities if liquid enters sewers or public waters. nent and cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or shovel spills into appropriate container for disposal. al protection. : Use only in well ventilated areas. Avoid all eye and skin contact and do not breathe vapor and mist. : 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. ling any incompatibilities
6.1.1. Emerger 6.1.2. Protectiv 6.2. Prevent 6 6.3. Methods 6.4. See Hea SECTIO 7.1. Precautio Hygiene 7.2. Storage 6	For non-emergency personnel ncy procedures For emergency responders we equipment Environmental precautions entry to sewers and public waters. No Methods and material for contain s for cleaning up Reference to other sections ading 8. Exposure controls and person ION 7: Handling and storage Precautions for safe handling ions for safe handling emeasures	quipment and emergency procedures : Evacuate unnecessary personnel. : Equip cleanup crew with proper protection. ify authorities if liquid enters sewers or public waters. nent and cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or shovel spills into appropriate container for disposal. al protection. : Use only in well ventilated areas. Avoid all eye and skin contact and do not breathe vapor and mist. : 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.

Specific end use(s) 7.3.

No additional information available

SECTION 8: Exposure of	ontrols/personal protection		
8.1. Control parameters	ontrois/personal protection		
Ethanol (64-17-5)			
USA ACGIH	ACGIH STEL (ppm)	1000 ppm	
USA NIOSH	NIOSH REL (TWA) (mg/m³)	1900 mg/m³	
USA NIOSH	NIOSH REL (TWA) (ppm)	1000 ppm	
USA OSHA	OSHA PEL (TWA) (mg/m³)	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 controls	: Provide local exhaust or general roon	n ventilation.	
Personal protective equipment	: Avoid all unnecessary exposure. Eme available in the immediate vicinity of a	ergency eye wash fountains and safety showers should be any potential exposure.	
Hand protection	Hand protection : Neoprene or nitrile rubber gloves.		
Eye protection : Chemical goggles. Contact lenses should not be worn.			
Skin and body protection : Wear suitable protective clothing.			
Respiratory protection	: Where exposure through inhalation m recommended. NIOSH-certified organ	nay occur from use, respiratory protection equipment is nic vapor (black cartridge) respirator.	

SECTION 9: Physical and chemica	I properties			
9.1. Information on basic physical and chemical properties				
Physical state	: Liquid			
Appearance	Clear liquid. Slightly viscous.			
Molecular mass	: 304.41 g/mol			
Color	: Straw.			
Odor	: Mild.			
Odor threshold	: No data available			
Refractive index	: 1.4405			
рН	: No data available			
Relative evaporation rate (butyl acetate=1)	: No data available			
Melting point	: No data available			
Freezing point	: <0°C			
Boiling point	: 135 °C @ 0.2 mm Hg			
Flash point	: > 100 °C			
Auto-ignition temperature	: 250 °C			
Decomposition temperature	: No data available			
Flammability (solid, gas)	No data available			
Vapor pressure	: <1 mm Hg @ 25°C			
Relative vapor density at 20 °C	: >1			
Relative density	: 1.07			
Solubility	: Insoluble in water. Reacts.			
Log Pow	: No data available			
Log Kow	: No data available			
Viscosity, kinematic	: 20 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 10: Stability and reactivity				
10.1. Reactivity				
No additional information available				
10.2. Chemical stability				
Stable in sealed containers.				
10.3. Possibility of hazardous reactions				
Reacts with water and moisture in air, liberating et	hanol.			
10.4. Conditions to avoid				
Heat. Open flame. Sparks.				
10.5. Incompatible materials				
Moisture. Water.				
10.6. Hazardous decomposition products				
Ethanol. Organic acid vapors. Silicon dioxide.				
SECTION 11: Toxicological informatio				
11.1. Information on toxicological effects Acute toxicity Inclusion	: Not classified			
Ethanol (64-17-5) LC50 inhalation rat (mg/l)	124.7 mg/l/4h			
Dihydro-3-[3-(triethoxysilyl)propyl]furan-2,5-d				
LD50 oral rat	> 2000 mg/kg			
Skin corrosion/irritation	: Not classified			
Serious eye damage/irritation	: Causes eye irritation.			
Respiratory or skin sensitization	: Not classified			
Germ cell mutagenicity	: Not classified			
Carcinogenicity	: Not classified			
Ethanol (64-17-5)				
IARC group	1 - Carcinogenic to humans			
Reproductive toxicity Specific target organ toxicity (single exposure)	Not classified			
Specific target organ toxicity (repeated exposure)	Not classified			
Aspiration hazard	: Not classified			
Symptoms/injuries after inhalation	: May cause irritation to the respiratory tract. Overexposure may cause: Cough. Headache. Nausea.			
Symptoms/injuries after skin contact	: May cause skin irritation.			
Symptoms/injuries after eye contact	: Causes eye irritation.			
Symptoms/injuries after ingestion	: May be harmful if swallowed.			
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				
Effect on ozone laver	No additional information available			

12.5.	Other adverse effects			
Effect on	ozone layer	: No additional information ava	ailable	
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Effect on the global warming	: No	: No known ecological damage caused by this product.			
SECTION 13: Disposal considerations					
13.1. Waste treatment	nethods				
Waste disposal recommenda		pose in a safe manner in accordar tents/container to licensed waste		ons. Dispose of	
Ecology - waste materials : Avoid release to the environment.					
SECTION 14: Transpo	ort information				
14.1. UN number					
Not regulated for transport.					
14.2. UN proper shipping	ng name				
Not applicable					
14.3. Additional informati	on				
Other information	: No	supplementary information availab	ble.		
Transport by sea					
No additional information ava	ailable				
Air transport					
No additional information ava	ailable				
SECTION 15: Regulat	ory information				
15.1. US Federal regulation					
Ethanol (64-17-5)					
Listed on the United States	TSCA (Toxic Substances (Control Act) inventory			
Dihydro-3-[3-(triethoxysil	yl)propyl]furan-2,5-dione	(93642-68-3)			
Listed on the United States	TSCA (Toxic Substances (Control Act) inventory			
15.2. International regulation	ons				
Ethanol (64-17-5)					
Listed on IARC (International Agency for Research on Cancer) Listed on the AICS (Australian Inventory of Chemical Substances) Listed on the Canadian DSL (Domestic Sustances List) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Korean ECL (Existing Chemicals List) Listed on NZIOC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the Canadian IDL (Ingredient Disclosure List)					
Dihydro-3-[3-(triethoxysilyl)propyl]furan-2,5-dione (93642-68-3) Listed on the AICS (Australian Inventory of Chemical Substances)					
Listed on the Canadian NDSL (Non-Domestic Substances List) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) Listed on NZIOC (New Zealand Inventory of Chemicals)					
15.3. US State regulations		E 05%/(026/2 69 2)			
	(3-TRIETHOXYSILYL)PROPYLSUCCINIC ANHYDRIDE, 95% (93642-68-3) U.S California - Proposition 65 - Carcinogens List No				
U.S California - Proposition 65 - Developmental Toxicity					
•	U.S California - Proposition 65 - Reproductive No				
U.S California - Proposition 65 - Reproductive No Toxicity - Male					
Ethanol (64-17-5)					
U.S California -	U.S California -	U.S California -	U.S California -	No significance risk level	
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity - Female	Proposition 65 - Reproductive Toxicity - Male	(NSRL)	
Yes	Yes	No	No		
	l	1	l	<u> </u>	

(3-TRIETHOXYSILYL)PROPYLSUCCINIC ANHYDRIDE, 95%

Safety Data Sheet

Dihydro-3-[3-(triethoxysilyl)propyl]furan-2,5-dione (93642-68-3)				
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	
Ethanol (64-17-5)				
U.S Connecticut - Hazardo U.S Idaho - Non-Carcinoge U.S Idaho - Non-Carcinoge U.S Idaho - Occupational I U.S Maise - Chemicals of U.S Massachusetts - Allow U.S Massachusetts - Allow U.S Massachusetts - Oil & U.S Massachusetts - Three U.S Massachusetts - Three U.S Michigan - Occupatior U.S Minnesota - Chemical U.S Minnesota - Chemical U.S Minnesota - Chemical U.S New Hampshire - Reg U.S New Hampshire - Reg U.S New Hampshire - Reg U.S New Jersey - Special U.S New Jersey - Special U.S New York - Occupatio U.S New York - Occupatio U.S New York - Occupatio U.S Oregon - Permissible U.S Texas - City of Austin U.S Texas - Effects Screen U.S Texas - Effects Screen U.S Vermont - Permissible	enic Toxic Air Pollutants - Emis Exposure Limits - TWAs High Concern vable Ambient Limits (AALs) vable Threshold Concentrations Hazardous Material List - Groi Hazardous Material List - Groi Hazardous Material List - Soil Hazardous Material List - Soil Hazardous Material List - Soil to Know List shold Effects Exposure Limits - to Know List shold Effects - TWAs so f High Concern substance List ble Exposure Limits - TWAs ulated Toxic Air Pollutants - Ar Know Hazardous Substances Li nal Exposure Limits - TWAs lutants - Guideline Concentrati Exposure Limits - TWAs Right to Know) List onal Exposure Limits - TWAs and Exposure Limits - TWAs Right to Know) List onal Exposure Limits - TWAs Substance List - Aerosol Paint and Glue Restroning Levels - Long Term ning Levels - Short Term Exposure Limits - TWAs ible Exposure Limits - TWAs ible Exposure Limits - TWAs	eptable Ambient Concentrations ssion Levels (ELs) s (ATCs) undwater Reportable Concentra ortable Quantity Reportable Concentration - Re Reportable Concentration - Re (TELs) mbient Air Levels (AALs) - 24-H mbient Air Levels (AALs) - 24-H mbient Air Levels (AALs) - Annu ist st ons - 1-Hour	ation - Reporting Category 1 ation - Reporting Category 2 porting Category 1 porting Category 2 lour	

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.

Full text of H-phrases::

Carc. 1A	Carcinogenicity Category 1A
Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B
Flam. Liq. 2	Flammable liquids Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H320	Causes 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

Prepared by safety and environmental affairs.

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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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