

Safety Data Sheet SIC2298.4 Date of issue: 01/05/2015 Revision Revision date: 10/20/2015

Version: 2.0

SECTION 1: Identification of the s	ubstance/mixture and of the company/undertaking			
1.1. Product identifier				
Product form	: Substance			
Physical state	: Liquid			
Substance name	: CHLOROMETHYLTRIETHOXYSILANE			
Product code	: SIC2298.4			
Formula	: C7H17ClO3Si			
Synonyms	: TRIETHOXY(CHLOROMETHYL)SILANE; SILANE, (CHLOROMETHYL)TRIETHOXY-			
Chemical family	: ORGANOETHOXYSILANE			
1.2. Relevant identified uses of the set	ubstance 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 safe	ety data sheet			
GELEST, INC. 11 East Steel Road Morrisville, PA 19067 USA T 215-547-1015 - F 215-547-2484 - (M-F): 8: info@gelest.com - www.gelest.com	00 AM - 5:30 PM EST			
1.4. Emergency telephone number				
Emergency number	: CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)			
SECTION 2: Hazards identification	n			
2.1. Classification of the substance of	or mixture			
GHS-US classification				
Flam. Liq. 3 H226				
Eye Irrit. 2B H320				
Full text of H-phrases: see section 16 2.2. Label elements				
GHS-US labeling				
Hazard pictograms (GHS-US)	: GHS02			
Signal word (GHS-US)	: Warning			
Hazard statements (GHS-US)	: H226 - Flammable liquid and vapor H320 - Causes eve irritation			
Precautionary statements (GHS-US)	 P280 - Wear protective gloves/protective clothing/eye protection/face protection P210 - Keep away from heat, open flames, sparks No smoking P233 - Keep container tightly closed P240 - Ground/bond container and receiving equipment P241 - Use explosion-proof electrical equipment P242 - Use only non-sparking tools P243 - Take precautionary measures against static discharge P264 - Wash hands thoroughly after handling P303+P361+P353 - If on skin (or hair): take off immediately all contaminated clothing. rinse skin with water/shower 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 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	: Additional ethanol may be formed by reaction with moisture and water. The hydrolysis product			
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classific		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. The US OSHA PEL (TWA) for ethanol is 1000 ppm. 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

SECTION 3: Composition/Information on ingredients				
3.1. Substance				
Substance type: Mono-constituentName: CHLOROMETHYLTRIETHOXYSILANECAS No: 15267-95-5EC no: 239-311-3				
Name Product identifier % GHS-US classification				
Chloromethyltriethoxysilane		(CAS No) 15267-95-5	95 - 100	Flam. Liq. 3, H226 Eye Irrit. 2B, H320

Mixture 3.2.

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.
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.
Chronic symptoms	: On contact with water this compound liberates ethanol which is known to have a chronic effect on the central nervous system.

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

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

SECTION 5: Firefighting measures	S
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Water fog. Foam. Carbon dioxide. Dry chemical.
Unsuitable extinguishing media	: Do not use straight streams.
5.2. Special hazards arising from the	substance or mixture
Fire hazard	: Flammable liquid and vapor. Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.
5.3. Advice for firefighters	
Firefighting instructions	: Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers.
Protection 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 6: Accidental release m	easures
6.1. Personal precautions, protective	equipment and emergency procedures
General measures	: Eliminate ignition sources. Use special care to avoid static electric charges.
6.1.1. For non-emergency personnel	
Protective equipment	: Wear protective equipment as described in Section 8.

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F	F		
Emergency procedures	: Evacuate unnecessary personnel.		
6.1.2. For emergency responders Protective equipment	: Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".		
6.2. Environmental precautions			
Prevent entry to sewers and public waters. Notify	v authorities if liquid enters sewers or public waters.		
6.3. Methods and material for containme	ent and cleaning up		
For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.		
Methods for 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. 		
6.4. Reference to other sections			
See Heading 8. Exposure controls and personal	protection.		
SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable. Keep away from		
Additional hazardo when processed	heat/sparks/open flames/hot surfaces No smoking.		
Precautions for safe handling	: Avoid all eye and skin contact and do not breathe vapor and mist. Provide good ventilation in process area to prevent accumulation of vapors. Ground/bond container and receiving equipment. 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, including	ng any incompatibilities		
Technical measures	: Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof		
	electrical equipment.		
Storage conditions	: Keep container tightly closed. Keep in a cool place.		
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/pers	onal protection		
8.1. Control parameters			
No additional information available			
8.2. Exposure controls			
Appropriate engineering controls	: Provide local exhaust or general room ventilation.		
Personal protective equipment	: Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available 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 suitable protective clothing.		
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified organic vapor (black cartridge) respirator.		
SECTION 9: Physical and chemical p	properties		
9.1. Information on basic physical and c			
Physical state	: Liquid		
Appearance	: Clear liquid.		
Molecular mass	: 212.75 g/mol		
Color	: No data available		
Odor	: Characteristic.		
Odor threshold	: No data available		
Refractive index	: 1.4069		
pH	: No data available		
Relative evaporation rate (butyl acetate=1)	: <1		
Melting point	: No data available		

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Freezing point	: <0°C
Boiling point	: 90 - 91 °C @ 25 mm Hg
Flash point	: 47 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable liquid and vapor
Vapor pressure	: < 2 mm Hg @ 25°C
Relative vapor density at 20 °C	: >1
Relative density	: 1.048
Solubility	: Insoluble in water. Reacts slowly 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 air or with wa	ater liberating ethanol.
10.4. Conditions to avoid	
Heat. Open flame. Sparks.	
10.5. Incompatible materials	
Oxidizing agent.	
10.6. Hazardous decomposition products	
Ethanol. Organic acid vapors. Silicon dioxide.	

SECTION 11: Toxicological information 11.1. Information on toxicological effects Acute toxicity : Not classified Chloromethyltriethoxysilane (15267-95-5) LD50 oral rat 2400 mg/kg ATE US (oral) 2400.000 mg/kg body weight Skin corrosion/irritation : Not classified Skin Irritation - rabbit: 500 mg/24H: mild irritant effect Serious eye damage/irritation : Causes eye irritation. Eye Irritation - rabbit: 500 mg/24H: mild irritant effect Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified : Not classified Carcinogenicity : Not classified Reproductive toxicity Specific target organ toxicity (single exposure) : Not classified Specific target organ toxicity (repeated : Not classified exposure) Aspiration hazard : Not classified Potential Adverse human health effects and : This material slowly generates ethanol on contact with water and moisture in living tissues. Material generates ethanol on contact with water or moisture in skin, eyes and mucous symptoms

Symptoms/injuries after inhalation

: May cause irritation to the respiratory tract.

membranes and has an irritating, dehydrating effect on overexposed tissue.

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Symptomoliniurics ofter align contact	· New source skin initiation
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.
Chronic symptoms	: On contact with water this compound liberates ethanol which is known to have a chronic effect on the central nervous system.
SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
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	IS
13.1. Waste treatment methods	
Sewage disposal recommendations	: Do not dispose of waste into sewer.
Waste disposal recommendations	: Incinerate. Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.
Additional information	: Handle empty containers with care because residual vapors are flammable.
Ecology - waste materials	: Avoid release to the environment.
SECTION 14: Transport information	
14.1. UN number	: 1993
14.1. UN number UN-No.(DOT)	: 1993 UN1993
14.1.UN numberUN-No.(DOT)DOT NA no.	
14.1.UN numberUN-No.(DOT)DOT NA no.14.2.UN proper shipping name	UN1993
14.1.UN numberUN-No.(DOT)DOT NA no.	: FLAMMABLE LIQUIDS, N.O.S.
14.1.UN numberUN-No.(DOT)DOT NA no.14.2.UN proper shipping nameProper Shipping Name (DOT)	UN1993 : FLAMMABLE LIQUIDS, N.O.S. (CHLOROMETHYLTRIETHOXYSILANE)
14.1.UN numberUN-No.(DOT)DOT NA no.14.2.UN proper shipping nameProper Shipping Name (DOT)Transport hazard class(es) (DOT)	UN1993 : FLAMMABLE LIQUIDS, N.O.S. (CHLOROMETHYLTRIETHOXYSILANE) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
14.1.UN numberUN-No.(DOT)DOT NA no.14.2.UN proper shipping nameProper Shipping Name (DOT)	UN1993 : FLAMMABLE LIQUIDS, N.O.S. (CHLOROMETHYLTRIETHOXYSILANE)
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14.1.UN numberUN-No.(DOT)DOT NA no.14.2.UN proper shipping nameProper Shipping Name (DOT)Transport hazard class(es) (DOT)Hazard labels (DOT)	UN1993 : FLAMMABLE LIQUIDS, N.O.S. (CHLOROMETHYLTRIETHOXYSILANE) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 : 3 - Flammable liquid
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14.1.UN numberUN-No.(DOT)DOT NA no.14.2.UN proper shipping nameProper Shipping Name (DOT)Transport hazard class(es) (DOT)Hazard labels (DOT)	UN1993 : FLAMMABLE LIQUIDS, N.O.S. (CHLOROMETHYLTRIETHOXYSILANE) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 : 3 - Flammable liquid
14.1.UN numberUN-No.(DOT)DOT NA no.14.2.UN proper shipping nameProper Shipping Name (DOT)Transport hazard class(es) (DOT)Hazard labels (DOT)Hazard labels (DOT)DOT SymbolsPacking group (DOT)	UN1993 : FLAMMABLE LIQUIDS, N.O.S. (CHLOROMETHYLTRIETHOXYSILANE) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 : 3 - Flammable liquid
14.1.UN numberUN-No.(DOT)DOT NA no.14.2.UN proper shipping nameProper Shipping Name (DOT)Transport hazard class(es) (DOT)Hazard labels (DOT)Hazard labels (DOT)DOT SymbolsPacking group (DOT)DOT Packaging Exceptions (49 CFR 173.xxx)	UN1993 : FLAMMABLE LIQUIDS, N.O.S. (CHLOROMETHYLTRIETHOXYSILANE) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 : 3 - Flammable liquid : G - Identifies PSN requiring a technical name : III - Minor Danger : 150
14.1. UN number UN-No.(DOT) DOT NA no. 14.2. UN proper shipping name Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT) DOT Symbols Packing group (DOT) DOT Packaging Exceptions (49 CFR 173.xxx) DOT Packaging Non Bulk (49 CFR 173.xxx)	UN1993 : FLAMMABLE LIQUIDS, N.O.S. (CHLOROMETHYLTRIETHOXYSILANE) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 : 3 - Flammable liquid : 6 - Identifies PSN requiring a technical name : III - Minor Danger : 150 : 203
14.1. UN number UN-No.(DOT) DOT NA no. 14.2. UN proper shipping name Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT) DOT Symbols Packing group (DOT) DOT Packaging Exceptions (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx)	UN1993 : FLAMMABLE LIQUIDS, N.O.S. (CHLOROMETHYLTRIETHOXYSILANE) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 : 3 - Flammable liquid : 6 - Identifies PSN requiring a technical name : III - Minor Danger : 150 : 203
 14.1. UN number UN-No.(DOT) DOT NA no. 14.2. UN proper shipping name Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT) DOT Symbols Packing group (DOT) DOT Packaging Exceptions (49 CFR 173.xxx) DOT Packaging Sulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) Ital. Additional information 	UN1993 F FLAMMABLE LIQUIDS, N.O.S. (CHLOROMETHYLTRIETHOXYSILANE) 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 3 - Flammable liquid
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 14.1. UN number UN-No.(DOT) DOT NA no. 14.2. UN proper shipping name Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT) DOT Symbols Packing group (DOT) DOT Packaging Exceptions (49 CFR 173.xxx) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) 	 UN1993 FLAMMABLE LIQUIDS, N.O.S. (CHLOROMETHYLTRIETHOXYSILANE) 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 3 - Flammable liquid 3 Flammable liquid Image: 100 (100 (100 (100 (100 (100 (100 (100
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 14.1. UN number UN-No.(DOT) DOT NA no. 14.2. UN proper shipping name Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT) DOT Symbols Packing group (DOT) DOT Packaging Exceptions (49 CFR 173.xxx) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Vessel Stowage Location Air transport 	 UN1993 F.LAMMABLE LIQUIDS, N.O.S. (CHLOROMETHYLTRIETHOXYSILANE) 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 3 - Flammable liquid 3 - Flammable liquid 4 - Interval and the stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

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DOT Quantity Limitations Cargo aircraft only (49 : 220 L CFR 175.75)

SECTION 15: Regulatory information

15.1. US Federal regulations

Chloromethyltriethoxysilane (15267-95-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

Chloromethyltriethoxysilane (15267-95-5)

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 the Japanese ENCS (Existing & New Chemical Substances) inventory

15.3. US State regulations

CHLOROMETHYLTRIETHO	XYSILANE(15267-95-5)				
U.S California - Propositior	n 65 - Carcinogens List	No			
U.S California - Propositior Toxicity	n 65 - Developmental	No			
U.S California - Propositior Toxicity - Female	n 65 - Reproductive	No			
U.S California - Propositior Toxicity - Male	n 65 - Reproductive	No			
Chloromethyltriethoxysilar	ne (15267-95-5)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	Pr Re	S California - roposition 65 - eproductive Toxicity - emale	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
No	No	No	0	No	

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::

Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B
Flam. Liq. 3	Flammable liquids Category 3
H226	Flammable liquid and vapor
H320	Causes eye irritation

HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 3 Serious Hazard
Physical	: 1 Slight Hazard
Descended by a fate and any descended offeter	

Prepared by safety and environmental affairs.

Date of issue: 01/05/2015 Revision date: 10/20/2015 Version: 2.0

SDS US (GHS HazCom 2012) - Custom

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

Safety Data Sheet

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