

## VINYL(CHLOROMETHYL)DIMETHYLSILANE

Safety Data Sheet SIV9065.0 Date of issue: 02/25/2016 Version: Version: 1.0

SECTION 4. Identification of the out	stance/minture and of the company/undertaking
	stance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Physical state	: Liquid
Substance name	: VINYL(CHLOROMETHYL)DIMETHYLSILANE
Product code	: SIV9065.0
Formula	: C5H11CISi
Synonyms	: CHLOROMETHYLDIMETHYLSILYLETHENE; (CHLOROMETHYL)DIMETHYLVINYLSILANE
Chemical family	: ORGANOSILANE
1.2. Relevant identified uses of the subs	tance 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 of	data sheet
<b>GELEST, INC.</b> 11 East Steel Road Morrisville, PA 19067 <b>USA</b> T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 // info@gelest.com - www.gelest.com	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	
2.1. Classification of the substance or m	nixture
GHS-US classification	
Flam. Liq. 2 H225 Skin Irrit. 2 H315 Eye Irrit. 2A H319 Full text of H statements : see section 16 2.2. Label elements	
GHS-US labeling Hazard pictograms (GHS-US)	: GHS02 GHS07
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	<ul> <li>H225 - Highly flammable liquid and vapor</li> <li>H315 - Causes skin irritation</li> <li>H319 - Causes serious eye irritation</li> </ul>
Precautionary statements (GHS-US)	<ul> <li>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 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 P321 - Specific treatment (see first aid instructions on this label) P362+P364 - Take off contaminated clothing and wash it before reuse P370+P378 - In case of fire: Use water spray, foam, carbon dioxide, dry chemical to extinguish P403+P235 - Keep in a cool place</li> </ul>
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	P501 - Dispose of contents/container to licensed v	vaste disposal facility
2.3. Other hazards		
No additional information available		
2.4. Unknown acute toxicity (GHS US	5)	
No data available		
SECTION 3: Composition/Information	ation on ingredients	
3.1. Substance		
Substance type	: Mono-constituent	
Name CAS No	: VINYL(CHLOROMETHYL)DIMETHYLSILANE	
EC no	: 16709-86-7 : 240-758-1	
Name Vinylchloromethyldimethylsilane	Product identifier (CAS No) 16709-86-7	%         GHS-US classification           95 -         Flam. Lig. 2, H225
	(CAS NU) 10/03/00/1	100 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
3.2. Mixture		
Not applicable		
SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures general	<ul> <li>Remove contaminated clothing and shoes. In case medical advice immediately (show the label where available show packaging or label.</li> </ul>	
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a po unwell, seek medical advice.	osition comfortable for breathing. If you feel
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 a present and easy to do. Continue rinsing. Get med	
First-aid measures after ingestion	: Never give anything by mouth to an unconscious p	person. Get medical advice/attention.
4.2. Most important symptoms and e	effects, both acute and delayed	
Symptoms/injuries after inhalation	: May cause irritation to the respiratory tract.	
Symptoms/injuries after skin contact	: Causes skin irritation.	
Symptoms/injuries after eye contact	: Causes serious eye irritation.	
Symptoms/injuries after ingestion	: No information available.	
	dical attention and special treatment needed	
No additional information available		
SECTION 5: Firefighting measure	es	
5.1. Extinguishing media		
Suitable extinguishing media	: Water spray. Foam. Carbon dioxide. Dry chemical	
Unsuitable extinguishing media	: None known.	
5.2. Special hazards arising from the		and another state of the state
Fire hazard	: Highly flammable liquid and vapor. Irritating fumes material is exposed to water or open flame.	and organic acid vapors may develop when
Explosion hazard	: May form flammable/explosive vapor-air mixture.	
5.3. Advice for firefighters		
Firefighting instructions	: Exercise caution when fighting any chemical fire.	
Protection during firefighting	: Do not enter fire area without proper protective eq Avoid all eye and skin contact and do not breathe	
SECTION 6: Accidental release m	easures	
	e equipment and emergency procedures	
General measures	: Eliminate every possible source of ignition. Use sp	pecial care to avoid static electric charges.
6.1.1. For non-emergency personnel		
Protective equipment	: Wear protective equipment as described in Sectio	n 8.
Emergency procedures	: Evacuate unnecessary personnel.	
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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 a	authorities if liquid enters sewers or public waters.
6.3. Methods and material for containmen	t and cleaning up
For containment	<ul> <li>Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.</li> </ul>
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. Use only non-sparking tools.
6.4. Reference to other sections	
See Heading 8. Exposure controls and personal pe	rotection.
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 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. Ground/bond container and receiving equipment. Provide good ventilation in process area to prevent accumulation of vapors. Take precautionary measures against static discharge. Use only non-sparking tools.
Hygiene measures	: Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, including	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/perso	nal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls Appropriate engineering controls	Provide local exhaust or general room ventilation.
	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 combination organic vapor/acid gas (yellow cartridge) respirator.
<b>SECTION 9: Physical and chemical pr</b>	operties
9.1. Information on basic physical and che	
	: Liquid
Appearance	Clear liquid.

Appealance	. Oldar inquita.
Molecular mass	: 134.68 g/mol
Color	: Straw.
Odor	: Distinct. Mild.
Odor threshold	: No data available
Refractive index	: No data available
рН	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: < 0 °C

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Boiling point	: 121 - 122 °C
Flash point	: 14 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Highly flammable liquid and vapor
Vapor pressure	: No data available
Relative vapor density at 20 °C	: >1
Relative density	: 0.893
VOC content	: 100 %
Solubility	: Insoluble in 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	
<b>SECTION 10: Stability and reactivity</b>	
10.1. Reactivity	
No additional information available	
10.2.         Chemical stability           Stable in sealed containers stored under a dry in	ert atmosphere
10.3. Possibility of hazardous reactions	
No additional information available	
10.4. Conditions to avoid	
Heat. Open flame. Sparks.	
10.5. Incompatible materials	
Oxidizing agent.	
10.6. Hazardous decomposition products	
Organic acid vapors.	
SECTION 11: Toxicological information	ion
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
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.
Symptoms/injuries after skin contact	: Causes skin irritation.
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- Symptoms/injuries after skin contact : Causes skin irritation.
- Symptoms/injuries after eye contact : Causes serious eye irritation.
- Symptoms/injuries after ingestion : No information available.
- Reason for classification : Expert judgment

## SECTION 12: Ecological information

**12.1.Toxicity**No additional information available

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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	<u>-</u>
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.
<b>SECTION 13: Disposal consideratio</b>	ns
13.1. Waste treatment methods	
Sewage disposal recommendations	: Do not dispose of waste into sewer.
Waste disposal recommendations	: May be incinerated. 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.
<b>SECTION 14: Transport information</b>	
14.1. UN number	
UN-No.(DOT)	: 1993
DOT NA no.	UN1993
14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: Flammable liquids, n.o.s.
	(VINYL(CHLOROMETHYL)DIMETHYLSILANE)
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Hazard labels (DOT)	: 3 - Flammable liquid
DOT Symbols	: G - Identifies PSN requiring a technical name
Packing group (DOT)	: II - Medium Danger
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
14.3. Additional information	
Emergency Response Guide (ERG) Number	: 128
Other information	: No supplementary information available.
Transport by sea	
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a
Don vessel blowage Ebeauon	passenger vessel carrying a number of passengers limited to not more than the larger of 25
	passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on
	passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded
Air transport	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5L
DOT Quantity Limitations Cargo aircraft only (49	9 · 601
CFR 175.75)	
SECTION 15, Dogulatory information	n
SECTION 15: Regulatory informatio	
15.1. US Federal regulations	

## VINYL(CHLOROMETHYL)DIMETHYLSILANE

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### Vinylchloromethyldimethylsilane (16709-86-7)

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

## 15.2. International regulations

### Vinylchloromethyldimethylsilane (16709-86-7)

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)

#### 15.3. US State regulations

VINYL(CHLOROMETHYL)DIMETHYLSILANE(16709-86-7)				
U.S California - Proposition 65 - Carcinogens List		No		
U.S California - Proposition 65 - Developmental Toxicity		No		
U.S California - Proposition 65 - Reproductive Toxicity - Female		No		
U.S California - Proposition 65 - Reproductive Toxicity - Male		No		
Vinylchloromethyldimethylsilane (16709-86-7)				
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	Non-significant risk level (NSRL)
No	No	No	No	

SECTION 16: Other information	on
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::	

I UII LEA			
	H225	Highly flammable liquid and vapor	
	H315	Causes skin irritation	
	H319	Causes serious eye irritation	

HMIS III Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 4 Severe Hazard
Physical	: 0 Minimal 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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