

Safety Data Sheet SID3545.0 Date of issue: 06/29/2015 Version: 1.0

	ostance/mixture and of the company/undertaking		
1.1. Product identifier			
Product form	: Substance		
Physical state	: Liquid		
Substance name	: 2,2-DIMETHOXY-1-THIA-2-SILACYCLOPENTANE		
Product code	: SID3545.0		
Formula	: C5H12O2SSi		
Synonyms	: 1-THIA-2-SILACYCLOPENTANE, 2,2-DIMETHOXY-		
Chemical family	: ORGANOMETHOXYSILANE		
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	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 n	nixture		
Classification (GHS-US)			
Flam. Liq. 4 H227 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)	: H227 - Combustible liquid H319 - Causes serious eye 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 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 P370+P378 - In case of fire: Use water spray, foam, carbon dioxide, dry chemical to extinguish P403 - Store in a well-ventilated place P403+P235 - Keep in a cool place P501 - Dispose of contents/container to licensed waste disposal facility. 		
2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS US)			
Precautionary statements (GHS-US) 2.3. Other hazards No additional information available	 H319 - Causes serious eye irritation P280 - Wear protective gloves/protective clothing/eye protection/face protection P210 - Keep away from heat, open flames, sparks No smoking 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 P370+P378 - In case of fire: Use water spray, foam, carbon dioxide, dry chemical to extingu P403 - Store in a well-ventilated place P403+P235 - Keep in a cool place 		

No data available

Safety Data Sheet

3.1. Substance				
Substance type	: Multi-c	constituent		
Name	: 2,2-DI	METHOXY-1-THIA-2-SILACYCL	OPENTANE	
CAS No	: 26903	-85-5		
Name		Product identifier	%	Classification (GHS-US)
1-Thia-2-silacyclopentane, 2,2-dimethoxy-		(CAS No) 26903-85-5	> 95	Flam. Liq. 4, H227 Eye Irrit. 2A, H319
3-Mercaptopropyltrimethoxysilane		(CAS No) 4420-74-0	< 5	Eye Irrit. 2A, H319
Methanol		(CAS No) 67-56-1		Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:vapour), H331 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 1, H370 STOT SE 3, H336

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.
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 effect	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	: May cause 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 methanol 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 methanol. The combination of visual disturbances, metabolic acidosis and formic acid in urine is evidence of methanol poisoning. The therapeutic intravenous administration of ethanol (10 mls/hour) allows methanol to be preferentially oxidized and reduces production of methanol metabolites. Acidosis must be treated with intravenous administration of sodium bicarbonate and methanol elimination may be increased by hemodialysis, as indicated. Treatment should be based on blood methanol levels and acid-base balance.

SECT	ION 5: Firefighting measures		
5.1.	Extinguishing media		
Suitable	e extinguishing media	: Water spray. Foam. Carbon dioxide. Dry chemical.	
Unsuitable extinguishing media : None known.		: None known.	
5.2.	5.2. Special hazards arising from the substance or mixture		
Fire haz	zard	: Combustible liquid. Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.	
5.3.	Advice for firefighters		
Firefigh	ting instructions	: Use water spray to cool exposed surfaces. Exercise caution when fighting any chemical fire.	
Protecti	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. Vapors extremely dangerous to eyes.	

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipment and emergency procedures		
General measures	: Remove ignition sources. Use special care to avoid static electric charges.	

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6.1.1. For non-emergency Emergency procedures	: Evacuate unnecessary pe	rsonnel.	
6.1.2. For emergency resp Protective equipment	: Equip cleanup crew with p	roper protection	
6.2. Environmental preca	autions blic waters. Notify authorities if liquid enters sev	vers or public waters	
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	al for containment and cleaning up	n on possible, using an absorbant material to collect it. Succes or	
Alethods 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 s			
See Heading 8. Exposure contr	ols and personal protection.		
SECTION 7: Handling a	nd storage		
7.1. Precautions for safe	handling		
Precautions for safe handling		tact and do not breathe vapor and mist. Provide good ventilation in	
Hygiene measures		ccumulation of vapors. Use only non-sparking tools.	
	smoking and when leaving	g work. Wash contaminated clothing before reuse.	
7.2. Conditions for safe	storage, including any incompatibilities		
Technical measures	: Ground/bond container an	d receiving equipment.	
Storage conditions	: Keep container tightly clos	ed.	
Incompatible materials	: Moisture. Water.		
Storage area	: Store in a well-ventilated p	lace. Store away from heat.	
7.3. Specific end use(s)			
No additional information availa	ble		
SECTION 8: Exposure d	ontrols/personal protection		
8.1. Control parameters			
Methanol (67-56-1)			
USA ACGIH	ACGIH TWA (ppm)	200 ppm	
USA ACGIH	ACGIH STEL (ppm)	250 ppm	
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	260 mg/m ³	
USA NIOSH	NIOSH REL (TWA) (ppm)	200 ppm	
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USA NIOSH	NIOSH REL (STEL) (mg/m ³)	325 mg/m ³	
USA NIOSH	NIOSH REL (STEL) (ppm)	250 ppm	
USA OSHA	OSHA PEL (TWA) (mg/m ³)	260 mg/m ³	
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm	
USA IDLH	US IDLH (ppm)	6000 ppm	
8.2. Exposure controls	1		
Appropriate engineering control	s : Provide local exhaust or g	eneral room ventilation.	
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		osure. Emergency eye wash fountains and safety showers should b vicinity of any potential exposure.	
Personal protective equipment	available in the immediate	vicinity of any potential exposure.	
Hand protection	available in the immediate : Neoprene or nitrile rubber	vicinity of any potential exposure. gloves.	
Personal protective equipment Hand protection Eye protection	available in the immediate : Neoprene or nitrile rubber	vicinity of any potential exposure. gloves. t lenses should not be worn.	
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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		
Boiling point	: 57 - 58 °C @ 7 mm Hg		
Flash point	: >65 ℃		
Auto-ignition temperature	No data available		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: Combustible liquid		
Vapor pressure	: <5 mm Hg @ 25°C		
	: >1		
Relative density	: 1.094		
VOC content	: <5%		
Solubility	: Insoluble in water. Reacts with water.		
-	: 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		
	: 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 m	ethanol		
10.4. Conditions to avoid			
Heat. Sparks. Open flame.			
10.5. Incompatible materials			
Moisture. Water.			
10.6. Hazardous decomposition products			
Methanol. Organic acid vapors.			
SECTION 11: Toxicological informatic	nn		
11.1. Information on toxicological effects Acute toxicity Inclusion	: Not classified		
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Methanol (67-56-1)			
LD50 oral rat	6200 mg/kg		
LD50 dermal rabbit	20 g/kg		
LC50 inhalation rat (ppm)	22500 ppm (Exposure time: 8 h)		
ATE US (oral)	100.000 mg/kg body weight		
ATE US (dermal) ATE US (vapors)	300.000 mg/kg body weight 3.000 mg/l/4h		
3-Mercaptopropyltrimethoxysilane (4420-74-0 LD50 oral rat			
LD50 oral rat LD50 dermal rabbit	2380 mg/kg		
	6000 mg/kg		
Skin corrosion/irritation	: Not classified		
	Primary Irritation index (skin): 0.19		
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. Overexposure may cause: Coughing. Headache. Nausea.
Symptoms/injuries after skin contact	:	May cause 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 methanol which is known to have a chronic effect on the central nervous system.
Reason for classification	:	Expert judgment

SECTION 12: Ecological information			
12.1. Toxicity			
Methanol (67-56-1)			
LC50 fish 1	28200 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])		
LC50 fish 2	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])		
3-Mercaptopropyltrimethoxysilane (4420-74-	0)		
ErC50 (algae)	267 mg/l (scenedesmus subspicatus)		
12.2. Persistence and degradability			
No additional information available			
12.3. Bioaccumulative potential			
Methanol (67-56-1)			
BCF fish 1	< 10		
Log Pow	-0.77		
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			
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.		
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. (2,2-DIMETHOXY-1-THIA-2-SILACYCLOPENTANE)		
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 requiring a technical name		
Packing group (DOT)	: III - Minor Danger		
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150		
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203		
	o <i>u</i>		

DOT Packaging Bulk (49 CFR 173.xxx)

: 241

Other information : No supplementary information available. Transport by sea End Temport OT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a management vessel. Air transport End Temport OT Ounsity Linkingtone Passenger alercality and the stowed "on deck" or "under deck" on a cargo vessel and on a management vessel. Di Ounsity Linkingtone Passenger alercality and the stowed "on deck" or "under deck" on a cargo vessel and on a management vessel. Di Ounsity Linkingtone Passenger alercality and the stowed on deck" or "under deck" on a cargo vessel and on a management vessel. Di Ounsity Linkingtone Passenger alercality and the stowed on deck" or "under deck" on a cargo vessel and on a management vessel. Status Fademan regulations Edd Control Visit	44.2 Additional information		
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 gasenger vessel. Air transport DOT Quarity Limitations Passenger aircraft only (49 : 20 L (40 - 40 - 40 - 40 - 40 - 40 - 40 - 40	14.3. Additional information		
DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel. Air transport DOT Quarty Limitations Passenger aircraft/rall : e0 L (so CR 173.27) DOT Quarty Limitations Cargo aircraft only (49 : 220 L CR 175.75) SECTION 15: Regulatory information 15.1.05 Federal regulations 22-DMETMOVY-THIA-25 ILACYCLOPENTME (2690-85-5) TSCA Everyption version by a "technically qualified indrivates and the equirement purposes subject to the exemption, including supervision by a "technically qualified indrivates of the exemption, including supervision by a "technically qualified indrivates of the exemption, including supervision by a "technically qualified indrivates of the exemption, including supervision by a "technically qualified indrivates of the exemption, including supervision by a "technically qualified indrivates of the exemption, including supervision by a "technically qualified indrivates of the exemption, including supervision by a "technically qualified indrivates of the exemption, including supervision by a "technically qualified indrivates of the exemption, including supervision by a "technically qualified indrivates of the exemption, including supervision by a "technically qualified indrivates of the substances on the United States Stack A Section 313 State a on the United States TSCA (Toxic Substances Control Act) inventory Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on the United States TSCA (Toxic Substances Produced or imported in Crine) Listed on the Cole (Autematina Heymetion or Control Act) inventory	Other Information : 1	No supplementary information available.	
DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel. Air transport DOT Quantity Limitations Passenger alrcraft/rall : 60 L (49 CFR 173.7) DOT Quantity Limitations Cargo alrcraft only (49 : 220 L CFR 175.70) SECTION 15: Regulatory information 151. UB Faderal regulations E2-20METMOVY-1THLa-25 LLOYCLOPENTME (2690-85-5) TSCA ExemptionExclusion CAUTION: This material is supplied for research and development purposes subject to the exemption. Including supervision by a 'technical' qualified individual' as defined by 40 CFR 72.03. in not material as defined by 40 CFR 72.03. in and must meet the requirements of the exemption. Including supervision by a 'technical' qualified individual' as defined by 40 CFR 72.03. in and must meet the requirements of the exemption. Including supervision by a 'technical' qualified individual' as defined by 40 CFR 72.03. in and partitude in the United States ARA Section 313 Bask Bascion 313 - Emission Reporting 1.0 % This-2-allex/optomate.2.2.2.4 (Immethory CB200-85-5) Not listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on the United States TSCA (Toxic Substances Control Act) inventory 12. Jander and the United States TSCA (Toxic Substances Produced or imported in Chrine) Listed on the United States TSCA (Toxic Substances Produced or imported in Chrine) Listed on the United States TSCA (Toxic Substances Produced or imported in Chrine) Listed on the Chrine CS (Transport by sea		
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(40 CFR 173.27) SECTION 15: Regulatory information 15.1. US Factor regulations 2.20METHOXY-1-THIA-2-SILACYCLOPENTANE (2503-85-5) TSCA Exemption/Exclusion ABD exemption under TSCA, A0 CFR 720.36, and must meet the requirements of the explorition, Thanking suppression by a 'technically qualitied infoldwat 'as defined by 40 CFR 720.38, and must meet the requirements of the explorition, Thanking suppression by a 'technically qualitied infoldwat 'as defined by 40 CFR 720.38, and must meet the requirements of the explorition, Thanking suppression by a 'technically qualitied infoldwat 'as defined by 40 CFR 720.38, and must meet the requirements of the explorition, Thanking suppression by a 'technically qualitied infoldwat 'as defined by 40 CFR 720.38, and must meet the requirements of the explorition, Thanking suppression by a 'technically qualitied infoldwat 'as defined by 40 CFR 720.38, and must meet the requirements of the explorition, Thanking Suppression by a 'technically counties, and the other of the Christian States SARA Section 313. Isted on the United States TSCA (Toxic Substances Control Act) inventory Listed on the United States TSCA (Toxic Substances Control Act) inventory 15.2. International regulations Methanol (67-56-1) Listed on the Candain DSL (Demestic Substances Control Act) inventory Listed on the CSC (Mustronian Inventory of Chemical Substances) Listed on the CSC (Mustronian Inventory of Existing Chemical Substances) Listed on NECC (New Zealand Inventory of Chemical Substances) Listed on the CSC (Mu	Air transport		
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Toxicity U.S California - Proposition 65 - Reproductive Toxicity - Female No			
Toxicity - Female		No	
·		No	
Toxicity - Male	U.S California - Proposition 65 - Reproductive	No	
06/29/2015 EN (English US) SDS ID: SID3545.0		V (English US) SDS ID: SID3545.0 6/8	

Safety Data Sheet

Methanol (67-56-1)				
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 level (NSRL)
No	Yes	No	No	
1-Thia-2-silacyclopentane	, 2,2-dimethoxy- (26903-85-5)			
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)
No	No	No	No	
3-Mercaptopropyltrimetho	xysilane (4420-74-0)		·	
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	
3-Mercaptopropyltrimethoxysilane (4420-74-0)				

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::

Acute toxicity (dermal) Category 3
Acute toxicity (inhalation:vapor) Category 3
Acute toxicity (oral) Category 3
Serious eye damage/eye irritation Category 1
Serious eye damage/eye irritation Category 2A
Flammable liquids Category 2
Flammable liquids Category 4
Skin corrosion/irritation Category 2
Specific target organ toxicity (single exposure) Category 1
Specific target organ toxicity (single exposure) Category 3
Highly flammable liquid and vapor
Combustible liquid
Toxic if swallowed
Toxic in contact with skin
Causes skin irritation
Causes serious eye damage
Causes serious eye irritation
Toxic if inhaled
May cause drowsiness or dizziness
Causes damage to organs

HMIS III Rating

Health

Flammability Physical : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is

given

- : 3 Serious Hazard
- : 1 Slight Hazard

Prepared by safety and environmental affairs.

Safety Data Sheet

Date of issue: 06/29/2015 Version: 1.0

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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