

BIS(TRIETHOXYSILYL)METHANE Safety Data Sheet SIB1821.0 Date of issue: 05/08/2014 Revision date: 08/28/2015

Version: 3.0

SECTION 1: Identification of the subs	tance/mixture and of the company/undertaking		
1.1. Product identifier			
Product form	: Substance		
Physical state	: Liquid		
Substance name	: BIS(TRIETHOXYSILYL)METHANE		
Product code	: SIB1821.0		
Formula	: C13H32O6Si2		
Synonyms	: 4,4,6,6-TETRAETHOXY-3,7-DIOXA-4,6-DISILANONANE		
Chemical family	: ORGANOETHOXYSILANE		
1.2. Relevant identified uses of the substa	ance 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 d	ata sheet		
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 - www.gelest.com	M - 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 mi	xture		
Classification (GHS-US)			
Acute Tox. 3 (Oral) H301 Acute Tox. 4 (Dermal) H312 Eye Irrit. 2A H319			
Full text of H-phrases: see section 16			
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)	: GHS06 GHS07		
Signal word (GHS-US)	: Danger		
Hazard statements (GHS-US)	: H301 - Toxic if swallowed H312 - Harmful in contact with skin 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 P270 - Do not eat, drink or smoke when using this product P330 - Rinse mouth P301+P310 - If swallowed: Immediately call a doctor P302+P352 - If on skin: Wash with plenty of water P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P312 - Call a doctor if you feel unwell P337+P313 - If eye irritation persists: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P405 - Store locked up 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 bis(triethoxysilyl)methane is ethanol. This product contains ethanol which is classified as a carcinogen by IARC in alcoholic beverages. Additional ethanol may be formed by reaction with moisture and water. The US OSHA PEL (TWA) for ethanol is 1000		

	ppm.			
2.4. Unknown acute toxicity (GHS US)				
No data available				
SECTION 3: Composition/information	n on in	gredients		
3.1. Substance				
Substance type	: Mond	-constituent		
Name	: BIS(T	RIETHOXYSILYL)METHANE		
CAS No	: 1841	8-72-9		
Name		Product identifier	%	Classification (GHS-US)
Bis(triethoxysilyl)methane		(CAS No) 18418-72-9	95 -	Acute Tox. 3 (Oral), H301
			100	Acute Tox. 4 (Dermal), H312 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	: Remo	ove contaminated clothing and shoes. In case of	of acciden	t or if vou feel unwell. seek
	medio	cal advice immediately (show the label where p able show packaging or label.		
First-aid measures after inhalation		ove victim to fresh air and keep at rest in a posi e/attention.	tion comf	ortable for breathing. Get medical
First-aid measures after skin contact	: Wash	with plenty of soap and water.		
First-aid measures after eye contact		diately flush eyes thoroughly with water for at I nt and easy to do. Continue rinsing. Get medic		
First-aid measures after ingestion	 Never give anything by mouth to an unconscious person. Get immediate medical advice/attention. 			
4.2. Most important symptoms and effect	ts. both	acute and delayed		
Symptoms/injuries after inhalation		cause irritation to the respiratory tract.		
Symptoms/injuries after skin contact	: May cause initiation to the respiratory tract. : Harmful in contact with skin. May cause skin irritation.			
Symptoms/injuries after eye contact	: Caus	es serious eye irritation.		
Symptoms/injuries after ingestion	: Toxic hazaı	if swallowed. Swallowing a small quantity of th d.	is materia	I will result in serious health
4.3. Indication of any immediate medical	attentio	n and special treatment needed		
No additional information available				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media	· Wate	r spray. Water fog. Alcohol-resistant foam. Carl	hon dioxic	le Dry chemical
Unsuitable extinguishing media	: None			
5.2. Special hazards arising from the sub	stanco	or mixture		
Fire hazard	: Irritat	ing fumes and organic acid vapors may developeratures or open flame.	p when m	aterial is exposed to elevated
5.2 Advice for firefighters	tomp			
5.3. Advice for firefighters Firefighting instructions	· Lleon	vater spray or fog for cooling exposed containe		se caution when fighting any
		ical fire.		se cauton when igning any
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 measures				
6.1. Personal precautions, protective equ	uipment	and emergency procedures		
6.1.1. For non-emergency personnel				
Emergency procedures	: Evac	uate unnecessary personnel.		
6.1.2. For emergency responders				
Protective equipment	: Equip	cleanup crew with proper protection.		
6.2. Environmental precautions				

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containm	nent and cleaning up
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 persona	al protection.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
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. Containers must be properly grounded before beginning transfer.
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
7.2. Conditions for safe storage, includ	ling any incompatibilities
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/pers	sonal 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	: Emergency eye wash fountains and safety showers should be available in the immediate
	vicinity of any potential exposure. Avoid all unnecessary 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	: NIOSH-certified organic vapor (black cartridge) respirator.
SECTION 9: Physical and chemical 9.1. Information on basic physical and	
Physical state	: Liquid
Appearance	: Clear liquid.
Molecular mass	: 340.56 g/mol
Color	: No data available
Odor	: Slight.
Odor threshold	: No data available
Refractive index	: 1.4098
рН	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: <0°C
Freezing point	: No data available
Boiling point	: 114 - 115 °C @ 3.5 mm Hg
Flash point	: > 65 ℃
Auto-ignition temperature	: No data available
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	: 0.9741
VOC content	: <5%
Solubility	: 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 in sealed containers.			
10.3. Possibility of hazardous reactions			
Hazardous polymerization will not occur. Material	decomposes slowly in contact with moist air or with water liberating ethanol.		
10.4. Conditions to avoid			
Heat. Sparks. Open flame.			
10.5. Incompatible materials			
Oxidizing agent.			
10.6. Hazardous decomposition products			
Ethanol. Organic acid vapors. Silicon dioxide.			
SECTION 11: Toxicological informati	on		
11.1. Information on toxicological effects			
Acute toxicity	: Oral: Toxic if swallowed. Dermal: Harmful in contact with skin.		
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Bis(triethoxysilyl)methane (18418-72-9)	161 mallia (related product 1.0 Dia/triathoursilul)athone are tourisity data)		
LD50 dermal rabbit	161 mg/kg (related product 1,2-Bis(triethoxysilyl)ethane oral toxicity data) 1971 mg/kg (related product 1,2-Bis(triethoxysilyl)ethane dermal toxicity data)		
ATE US (ORD)	161 ()()) ma/ka body weight		
ATE US (oral) ATE US (dermal)	161.000 mg/kg body weight 1971.000 mg/kg body weight		
ATE US (oral) ATE US (dermal) Skin corrosion/irritation	1971.000 mg/kg body weight		
ATE US (dermal) Skin corrosion/irritation	1971.000 mg/kg body weight : Not classified		
ATE US (dermal)	1971.000 mg/kg body weight		
ATE US (dermal) Skin corrosion/irritation	1971.000 mg/kg body weight : Not classified : Causes serious eye irritation.		
ATE US (dermal) Skin corrosion/irritation Serious eye damage/irritation	1971.000 mg/kg body weight : Not classified : Causes serious eye irritation. Eye Irritation - rabbit: mild irritation		
ATE US (dermal) Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization	1971.000 mg/kg body weight : Not classified : Causes serious eye irritation. Eye Irritation - rabbit: mild irritation : Not classified		
ATE US (dermal) Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity	1971.000 mg/kg body weight : Not classified : Causes serious eye irritation. Eye Irritation - rabbit: mild irritation : Not classified : Not classified		
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12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
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	ns
13.1. Waste treatment methods	
Waste disposal recommendations	: Incinerate. 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	
	. 2040
UN-No.(DOT)	: 2810
DOT NA no.	UN2810
14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: TOXIC LIQUID, ORGANIC, N.O.S.
	(BIS(TRIETHOXYSILYL)METHANE)
Hazard labels (DOT)	: 6.1 - Poison
	6
DOT Symbols	: G - Identifies PSN requiring a technical name
Packing group (DOT)	: III - Minor Danger
DOT Packaging Exceptions (49 CFR 173.xxx)	: 153
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
14.3. Additional information	
Other information	: No supplementary information available.
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
	passenger vessel.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
Air transport	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49	: 220 L
CFR 175.75)	
SECTION 15: Regulatory information	n
15.1. US Federal regulations	
BIS(TRIETHOXYSILYL)METHANE (18418-72	-9)
TSCA Exemption/Exclusion	Low Volume Exemption in accordance with 40 CFR 723.50(c)(1).
Bis(triethoxysilyl)methane (18418-72-9)	
Not listed on the United States TSCA (Toxic S	ubstances Control Act) inventory
15.2. International regulations	, ,
No additional information available	

No additional information available

15.3. US State regulations

BIS(TRIETHOXYSILYL)METHANE(18418-72-9)		
U.S California - Proposition 65 - Carcinogens List	No	
U.S California - Proposition 65 - Developmental Toxicity	No	
U.S California - Proposition 65 - Reproductive	No	

BIS(TRIETHOXYSILYL)METHANE

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BIS(TRIETHOXYSILYL)METHANE(18418-72-9)				
Toxicity - Female				
U.S California - Propo Toxicity - Male	sition 65 - Reproductive	No		
Bis(triethoxysilyl)methane (18418-72-9)				
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 i	information			
Indication of changes		: Added acute toxicity (dermal) data and reclassified hazards Added acute toxicity (oral and dermal) data to section 11. Applied changes to section 4. Removed ethanol % from section 3.		
Abbreviations and acronym	Concentration; ATE: Acute Toxicity Estimates; millimeters Hg, torr; PEL: permissible exposure threshold limit value; TG: Test Guideline; NIOS Health; IARC: International Agency for Resear Program; HMIS: Hazardous Material Informatio Registration Number; EC No.: European Comr	: 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 Tox. 3 (Oral	I) Acute toxicity (oral)	Category 3		
Acute Tox. 4 (Derr				
Eye Irrit. 2A	Serious eye damage	e/eye irritation Category 2A		
H301	Toxic if swallowed			
H312	Harmful in contact v	vith skin		
H319	Causes serious eye	irritation		
HMIS III Rating Health	: 2 Moderate Hazard - Temporary or minor injun			
		y may occur		
Flammability	: 1 Slight Hazard			
Physical	: 1 Slight Hazard			
Prepared by safety and env	vironmental affairs.			
Date of issue: 05/08/2014	Revision date: 08/28/2015 Version: 3.0			

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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