

BIS(TRIMETHYLSILYL)TELLURIDE Safety Data Sheet SIB1873.0 Date of issue: 11/21/2014 Revision date: 09/01/2015

Version: 2.0

1.1. Identification Product code : BISTRIMETHYLSULUTELURDE Product code : SUB1873.0 Product form : Substance Physical state : Liquid Formula : CoHIRTSIZE Synonyms : CHETARSIZE Synonyms : CHEXAMETHYLDISILATELLURANE Chemical family : ORGANOSILANE 1.2. Recommended use and restrictions: or use Recommended use : Chemical intermediate 1.3. Supplier : T1 East Steel Road Morrisville, PA 19067 USA : CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International) SECTION 2: Hazard(s) identification Ture is validowed de sourd restrictions is validowed de sourd restriction sourd water designed come Section Visa (GHS US) Combustible liquid Acute toxiciy (International) Section Signed code Section Signed code Combustible liquid Acute toxiciy (International) Section Signed code <td (internat<="" code="" th="" toxiciy=""><th></th><th></th></td>	<th></th> <th></th>		
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GELEST, NC. 11 Easl Steel Road Morrisville, 7A 19067 USA 1215-547-1015 - F 215-547-2484 - (M-F): 8:00 AM - 5:30 PM EST info@gelest.com - www.gelest.com 131 Emergency telephone must Emergency number CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International) SECTION 2: Hazard(S) identification Emergency telephone or mixture GHS-US classification H227 Combustible liquid Acute toxicity (oral) Category 3 Hamable liquids Category 1 H227 Combustible liquid Acute toxicity (inhalation:vapor) Category 3 Hasard pictograms (GHS US) H227 Combustible liquid Acute toxicity (inhalation:vapor) Hazard statements; is ee section 16 E 2.2. GHS Label elements, including precautionary statements GHS US labeling E Hazard statements (GHS US) : Danger Hazard statements (GHS US) : P280 - Wear protective gloves/protective clothing/eye protection/face protection. P210 - Kord breating vapors. P244 - Wash hands thoroughly after handling. P210 - Kord breating vapors. P244 - Wash hands thoroughly after handling. P210 - Low of breating vapors. P244 - Wash hands thoroughly after handling. P210 - Low of breat, dirink since worker, here using this product. P210 - Kore area of in: Use carbon dioxide (CO2), dry powder to extinguish. P300 - H233 - Store in a well-ventilated ratea. P333 - Store in a well-ventilated piace. Keep container tightly closed. P403 + P233 - Store in a well-ventilated piace. Keep container tightly closed. P403 + P233 - Store in a well-ventilated piace. Keep container to license	Recommended use	: Chemical intermediate	
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Flammable liquids Category 4 H227 Combustible liquid Acute toxicity (oral) Category 3 H31 Toxic if swallowed Acute toxicity (inhalation:vapor) Category 3 H31 Toxic if iswallowed Full text of H statements : see section 16 Image: Comparison of Category 3 H21 2.2. GHS Label elements, including precautionary statements GHS US labeling Image: Comparison of Category 3 Image: Comparison of Category 3 Yazard pictograms (GHS US) Image: Comparison of Category 3 Image: Comparison of Category 3 Signal word (GHS US) Image: Comparison of Category 3 Image: Comparison of Category 3 Hazard statements (GHS US) Image: Comparison of Category 3 Image: Comparison of Category 3 Precautionary statements (GHS US) Image: Comparison of Category 3 Image: Comparison of Category 3 Precautionary statements (GHS US) Image: Comparison of Category 3 Image: Comparison of Category 3 Precautionary statements (GHS US) Image: Comparison of Category 3 Image: Comparison of Category 3 Precautionary statements (GHS US) Image: Comparison of Category 3 Image: Comparison of Category 3 Precautionary statements (GHS US) Image: Comparison of Category 3 Image: Category 3			
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Hazard pictograms (GHS US) : Signal word (GHS US) : Hazard statements (GHS US) : Precautionary statements (GHS US) : P260 - Wear protective gloves/protective clothing/eye protection/face protection. P210 - Keep away from heat, ignition sources, - No smoking. P221 - Avoid breathing vapors. P264 - Wash hands thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. P330 + P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P311 - Call a doctor P370+P378 - In case of fire: Use carbon dioxide (CO2), dry powder to extinguish. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P403+P233 - Store in a cool place P405 - Store locked up. P501 - Dispose of contents/container to licensed waste disposal facility. 2.3. <td></td> <td></td>			
Hazard statements (GHS US) : H227 - Combustible liquid H301+H331 - Toxic if swallowed or if inhaled Precautionary statements (GHS US) : P280 - Wear protective gloves/protective clothing/eye protection/face protection. P210 - Keep away from heat, ignition sources No smoking. P261 - Avoid breathing vapors. P264 - Wash hands thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. P330 - Rinse mouth. P301+P310 - If swallowed: Immediately call a doctor P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P311 - Call a doctor P370+P378 - In case of fire: Use carbon dioxide (CO2), dry powder to extinguish. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P403+P235 - Keep in a cool place P405 - Store locked up. P501 - Dispose of contents/container to licensed waste disposal facility. 2.3. Hazards not otherwise classified (HNOC)	Hazard pictograms (GHS US)		
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 P210 - Keep away from heat, ignition sources No smoking. P261 - Avoid breathing vapors. P264 - Wash hands thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. P330 - Rinse mouth. P301+P310 - If swallowed: Immediately call a doctor P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P311 - Call a doctor P370+P378 - In case of fire: Use carbon dioxide (CO2), dry powder to extinguish. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P403+P235 - Keep in a cool place P405 - Store locked up. P501 - Dispose of contents/container to licensed waste disposal facility. 2.3. Hazards not otherwise classified (HNOC)		: H227 - Combustible liquid	
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	2.3 Hazards not otherwise classified	(HNOC)	

2.4. Unknown acute toxicity (GHS US)

BIS(TRIMETHYLSILYL)TELLURIDE Safety Data Sheet

SECTION 3: Composition/Information	n on ingredients			
3.1. Substances				
Substance type	: Mono-constituent			
Name	: BIS(TRIMETHYLSILYL)	TELLURIDE		
CAS-No.	: 4551-16-0			
Name		Product identifier	%	GHS-US classification
Bis(trimethylsilyl)telluride		(CAS-No.) 4551-16-0	> 97	Flam. Liq. 4, H227 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Inhalation:vapour), H331
Full text of hazard classes and H-statements : se	e section 16			(
3.2. Mixtures				
Not applicable				
SECTION 4: First-aid measures				
4.1. Description of first aid measures				
First-aid measures general		ely (show the label wher		nt or if you feel unwell, seek If possible show this sheet; if not
First-aid measures after inhalation	: Remove victim to fresh a immediate medical advic		osition com	fortable for breathing. Get
First-aid measures after skin contact	: Wash with plenty of soap	and water.		
First-aid measures after eye contact	: Immediately flush eyes the present and easy to do.			minutes. Remove contact lenses, if e/attention.
First-aid measures after ingestion	: Never give anything by m advice/attention.	nouth to an unconscious	person. Ge	t immediate medical
4.2. Most important symptoms and effec	ts (acute and delayed)			
Symptoms/effects after inhalation	: Toxic if inhaled.			
Symptoms/effects after skin contact	: May cause skin irritation.			
Symptoms/effects after eye contact	: May cause eye irritation.			
Symptoms/effects after ingestion		owing a small quantity o	f this mater	ial will result in serious health
4.3. Immediate medical attention and spo	ecial treatment, if necessar	y		
No additional information available				
SECTION 5: Fire-fighting measures				
5.1. Suitable (and unsuitable) extinguish	ing media		-	
Suitable extinguishing media	: Carbon dioxide. Dry pow	der		
5.2. Specific hazards arising from the ch				
Fire hazard				
	: Combustible liquid.			
5.3. Special protective equipment and pr				
Firefighting instructions		ave the area unless fitted	I with a self	urning material may release toxic -contained breathing apparatus ny chemical fire
Protection during firefighting	•	hout proper protective e	quipment, ir	ncluding respiratory protection.
SECTION 6: Accidental release meas	sures			
6.1. Personal precautions, protective equ	uipment and emergency pr	ocedures		
General measures	: Remove ignition sources		oid static ele	ectric charges.
6.1.1. For non-emergency personnel				
Emergency procedures	: Evacuate unnecessary p	ersonnel.		
6.1.2. For emergency responders				
Protective equipment	: Equip cleanup crew with breathing apparatus.	proper protection. Leave	e the area u	nless fitted with a self-contained
6.2. Environmental precautions				
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Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

BIS(TRIMETHYLSILYL)TELLURIDE

Safety Data Sheet

	al for containment and cleaning	•	
Methods for cleaning up	vermiculite onto vermi	or other suitable absorbent.	spread odor problem. Small spills can be absorbed into Odor can be attenuated by slurrying material adsorbed ium hypochlorite (bleach). Sweep or shovel spills into only non-sparking tools.
6.4. Reference to other s	ections		
See Heading 8. Exposure control	ols and personal protection.		
SECTION 7: Handling an	nd storage		
7.1. Precautions for safe	handling		
Additional hazards when proces	sed : Keep away	from heat, ignition sources	No smoking.
Precautions for safe handling	process ar		of breathe vapor and mist. Provide good ventilation in vapors. Containers must be properly grounded before ng tools.
Hygiene measures			vith mild soap and water before eating, drinking or contaminated clothing before reuse.
7.2. Conditions for safe s	storage, including any incom	oatibilities	
Technical measures	: Ground/bo	nd container and receiving eq	uipment.
Storage conditions		ainer tightly closed.	
Incompatible materials	: Moisture. V		
Storage area	: Store in a	well-ventilated place. Store av	vay from heat.
SECTION 8: Exposure c	ontrols/personal proteo	tion	
8.1. Control parameters			
Bis(trimethylsilyl)telluride (4	1551-16-0)		
OSHA	OSHA PEL (TWA) (mg/m ³)	C).1 mg/m³ (as Te)
			3 (11)
8.2. Appropriate enginee	aring controls		
Appropriate engineering controls	s : Handle in a ventilation.	Mechanical with caustic scru	st ventilation. Provide local exhaust or general room bber is recommended.
8.3. Individual protection	n measures/Personal protectiv	ve equipment	
Personal protective equipment	nt:		
Emergency eye wash fountains exposure.	and safety showers should be a	available in the immediate vici	nity of any potential exposure. Avoid all unnecessary
Hand protection:			
Neoprene or nitrile rubber glove	S		
Eye protection:			
Chemical goggles. Contact lens	es should not be worn		
Skin and body protection:			
Wear suitable protective clothing	g		
Respiratory protection:			
Where exposure through inhalat	tion may occur from use, respira	atory protection equipment is	recommended
SECTION 9: Physical an	d chemical properties		
9.1. Information on basic	c physical and chemical prope	erties	
Physical state	: Liquid		
Appearance	: Liquid.		
Molecular mass	: 273.98 g/m	ol	
Color	: Deep. Stra	w to amber.	
Odor	: Strong. Ste	ench.	
Odor threshold	: No data av	ailable	

Refractive index

: No data available

BIS(TRIMETHYLSILYL)TELLURIDE

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Freezing point	: No data available
Boiling point	: 74 °C @ 11 mm Hg
Flash point	: >65 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Combustible liquid
Vapor pressure	: ~1 mm Hg @ 20°C
Relative vapor density at 20 °C	: >1
Relative density	: 0.97
% Volatiles	: > 97 %
Solubility	: Insoluble in water. 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 reac	tivity
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable in sealed containers stored under r	nosture free atmosphere.
10.3. Possibility of hazardous react	tions

Material decomposes slowly in contact with moist air or with water liberating hydrogen telluride.

10.4. Conditions to avoid

Heat. ignition sources.

10.5. Incompatible materials

Moisture. Water.

10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Hydrogen telluride. Organic fumes. Silicon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Bis(trimethylsilyl)telluride (4551-16-0)		
ATE US (oral)	100 mg/kg body weight	
ATE US (vapors)	3 mg/l/4h	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	: Not classified	
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	
Potential Adverse human health effects and symptoms	: Even at less than 0.1mg Te/m3 can impart a garlic-like of weeks to subside.	dor to the breath which can take
Symptoms/effects after inhalation	: Toxic if inhaled.	
Symptoms/effects after skin contact	: May cause skin irritation.	
Print date: 04/12/2019	EN (English US) SDS ID: SIB	4/7

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Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: Toxic if swallowed. Swallowing a small quantity of this material will result in serious health
	hazard.
Reason for classification	: Based on Testing of Similar Materials
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	
Effect on the ozone layer	: No additional information available
SECTION 13: Disposal consideration	IS
13.1. Disposal methods	
Product/Packaging disposal recommendations	: Incinerate. 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	
UN-No.(DOT)	: 3284
DOT NA no.	UN3284
14.2. UN proper shipping name	
Transport document description	: UN3284 Tellurium compound, n.o.s. (BIS(TRIMETHYLSILYL)TELLURIDE), 6.1, III
Proper Shipping Name (DOT)	: Tellurium compound, n.o.s.
Class (DOT)	(BIS(TRIMETHYLSILYL)TELLURIDE) : 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132
Packing group (DOT)	: III - Minor Danger
Hazard labels (DOT)	: 6.1 - Poison
	POISON
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 213
DOT Packaging Bulk (49 CFR 173.xxx)	: 240
DOT Packaging Exceptions (49 CFR 173.xxx) DOT Symbols	: 153 C. Identifies PSN requiring a technical name
	: G - Identifies PSN requiring a technical name
14.3. Additional information Emergency Response Guide (ERG) Number	: 151
Other information	: No supplementary information available.
Transport by sea	. A The material may be atough "an dealy" or "under dealy" on a correctional and on a
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 aircraft/rail	: 100 kg
(49 CFR 173.27)	
DOT Quantity Limitations Cargo aircraft only (49	: 200 kg
CFR 175.75)	

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SECTION 15: Regulatory information	
15.1. US Federal regulations	
BIS(TRIMETHYLSILYL)TELLURIDE (4551-16-0)	
TSCA Exemption/Exclusion	CAUTION: This material is supplied for research and development purposes subject to the R&D exemption under TSCA, 40 CFR 720.36, and must meet the requirements of the exemption, including supervision by a "technically qualified individual" as defined by 40 CFR 720.3(ee). The use of this material for "commercial purposes" as defined by 40 CFR 720.3(r) is not permitted in the United States.

Bis(trimethylsilyl)telluride (4551-16-0)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

No additional information available

EU-Regulations No additional information available

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

H227	Combustible liquid	
H301	Toxic if swallowed	
H331	Toxic if inhaled	
bbreviations and acronyms	Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; m millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Sa Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract S Registration Number; EC No.: European Commission Registration Number; EC Index N European Commission Index Number; OECD: The Organisation for Economic Co-opera and Development; GHS: The Globally Harmonized System of Classification and Labellin APF: Assigned Protection Factor.	nm: /: fety and Service lo.: ation
azard Rating		
lealth	: 4 Severe Hazard - Life-threatening, major or permanent damage may result from s repeated overexposures	single o
	: 2 Moderate Hazard - Materials which must be moderately heated or exposed to high an	
lammability	temperatures before ignition will occur. Includes liquids having a flash point at or above but below 200 F. (Classes II & IIIA)	

Date of issue: 11/21/2014 Revision date: 09/01/2015 Version: 2.0

SDS US (GHS HazCom 2012) - Custom

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

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