

SECTION 1: Identification

BIS(TRIMETHYLSILYL) ADIPATE

Safety Data Sheet SIB1852.6 Date of issue: 11/30/2016 Version: 1.0

1.1. **Product identifier** Product name : BIS(TRIMETHYLSILYL) ADIPATE : SIB1852.6 Product code Product form : Substance Physical state : Liquid Formula : C12H26O4Si2 : HEXANEDIOIC ACID, 1,6-BIS(TRIMETHYLSILYL)ESTER Synonyms Chemical family : ORGANOSILANE 1.2. Recommended use of the chemical and restrictions on use : Chemical intermediate Recommended use For research and industrial 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 AM - 5:30 PM EST info@gelest.com - www.gelest.com 1.4. **Emergency telephone number** : CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International) Emergency number SECTION 2: Hazard(s) identification 2.1. Classification of the substance or mixture **GHS-US classification** Flammable liquids Category 4 H227 Serious eye damage/eye irritation Category 2A H319 Full text of H statements : 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 P280 - Wear protective gloves/protective clothing/eye protection/face protection Precautionary statements (GHS-US) 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 + P235 - Keep in a cool place P501 - Dispose of contents/container to licensed waste disposal facility Hazards not otherwise classified (HNOC) 2.3. No additional information available 2.4. Unknown acute toxicity (GHS US) No data available **SECTION 3: Composition/Information on ingredients** 3.1. Substance Substance type : Mono-constituent EN (English US) SDS ID: SIB1852.6 Print date: 11/30/2016 Page 1

Name	: BIS(TRIMETHYLSILYL) ADIPATE		
CAS No	: 18105-31-2		
Name	Product identifier	%	GHS-US classification
Bis(trimethylsilyl) adipate	(CAS No) 18105-31-2	95 - 100	Flam. Liq. 4, H227 Eye Irrit. 2A, H319
Full text of hazard classes and H-statements :	see section 16	I	
3.2. Mixture			
Not applicable			
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 a unwell, seek medical advice.	at rest in a position co	mfortable for breathing. If you feel
First-aid measures after skin contact	: Wash with plenty of soap and water.	Get medical advice/at	tention.
First-aid measures after eye contact	: Immediately flush eyes thoroughly wit present and easy to do. Continue rins		
First-aid measures after ingestion	: Never give anything by mouth to an u	nconscious person. C	Set medical advice/attention.
4.2. Most important symptoms and effe	ects, 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 serious eye irritation.		
Symptoms/injuries after ingestion	: No information available.		
	al attention and special treatment neede	d	
No additional information available			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Water spray. Foam. Carbon dioxide. I	Dry chemical.	
Unsuitable extinguishing media	: Do not use straight streams.		
5.2. Special hazards arising from the s			
Fire hazard	: Combustible liquid. Irritating fumes ar exposed to elevated temperatures or		s may develop when material is
5.3. Advice for firefighters			
Firefighting instructions	: Exercise caution when fighting any ch	nemical fire. Use wate	r spray to cool exposed surfaces.
Protection during firefighting	: Do not enter fire area without proper		
	Avoid all eye and skin contact and do	not breathe vapor an	id mist.
SECTION 6: Accidental release mea	asures		
6.1. Personal precautions, protective e	quipment and emergency procedures		
General measures	: Remove ignition sources. Use specia	I care to avoid static e	electric charges.
6.1.1. For non-emergency personnel			
Protective equipment	: Wear protective equipment as describ	ped in Section 8.	
Emergency procedures	: Evacuate unnecessary personnel.		
6.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without proper protection. For further informat protection".		
6.2. Environmental precautions			
Prevent entry to sewers and public waters. Not	ify authorities if liquid enters sewers or pub	lic waters.	
6.3. Methods and material for containn	nent and cleaning up		
For containment	: Contain any spills with dikes or absor streams.	bents to prevent migr	ation and entry into sewers or
Methods for cleaning up	: Clean up any spills as soon as possib sparking tools.	ble, using an absorbei	nt material to collect it. Use only noi
Methods for cleaning up 6.4. Reference to other sections		lle, using an absorbei	nt material to collect it. Use only no

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SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Additional hazards when processed	: 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. 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, includ	ling any incompatibilities		
Storage conditions	: Keep container tightly closed. Keep in a cool place.		
Incompatible materials	: Acids. Alcohols. Oxidizing agent. Peroxides.		
Storage area	: Store in a well-ventilated place. Store away from heat.		
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	: 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 - amine gas (brown cartridge) respirator.		
SECTION 9: Physical and chemical			
9.1. Information on basic physical and			
Physical state	: Liquid		
Appearance	: Clear liquid.		
Molecular mass	: 290.51 g/mol		
Color	: Straw.		
Odor	: Mild.		
Odor threshold	: No data available		
Refractive index	: 1.4275		
pH	: No data available		
Relative evaporation rate (butyl acetate=1)	: No data available		
Melting point	: <0°C		
Freezing point	: No data available		
Boiling point	: 134 - 136 °C @ 12 mm Hg		
Flash point	: 75 °C		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: Combustible liquid		
Vapor pressure	: <1 mm Hg @ 25°C		
Relative vapor density at 20 °C	: >1		
Relative density	: 0.948		
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 reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable when stored in sealed containers.	
10.3. Possibility of hazardous reactions	
	nexamethyldisiloxane (flammable) and sebacic acid.
10.4. Conditions to avoid	
Heat. Open flame. Sparks.	
10.5. Incompatible materials	
Acids. Alcohols. Oxidizing agent. Peroxides.	
10.6. Hazardous decomposition products	
Organic acid vapors.	
- ·	ion
SECTION 11: Toxicological informat	
11.1. Information on toxicological effects Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
	None of the components in this product at concentrations >0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen
Reproductive toxicity	: Not classified : Not classified
Specific target organ toxicity (single exposure)	
Chapitic toward organ tovicity (repeated	
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	: May cause 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	
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 effects from this product.
GWPmix comment	: No known effects from this product.

SECTION 13: Disposal consideration	15	
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.	
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		
Transport document description	: NA1993 Combustible liquid, n.o.s. (BIS(TRIMETHYLSILYL) ADIPATE), 3, III	
Proper Shipping Name (DOT)	: Combustible liquid, n.o.s. (BIS(TRIMETHYLSILYL) ADIPATE)	
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120	
Packing group (DOT)	: III - Minor Danger	
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203	
DOT Packaging Bulk (49 CFR 173.xxx)	: 241	
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150	
DOT Symbols	: D - Proper shipping name for domestic use only, or to and from Canada,G - Identifies PSN requiring a technical name	
14.3. Additional information		
Emergency Response Guide (ERG) Number	: 128	
Other information	: No supplementary information available.	
Special transport precautions	: This product is Combustible as defined by the US Department of Transportation (DOT). It is	
	regulated for transport in the US in container > 119 gallons. The product is not regulated for transport by the IATA, ADR/RID, ADNR or the IMDG regulations.	
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	
Air transport		
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L	
SECTION 15: Regulatory information	1	
15.1. US Federal regulations		
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Bis(trimethylsilyl) adipate (18105-31-2)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
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15.2. International regulations		
CANADA		
Bis(trimethylsilyl) adipate (18105-31-2)		
Listed on the Canadian NDSL (Non-Domestic S	Substances List)	
EU-Regulations		
Bis(trimethylsilyl) adipate (18105-31-2)		
	In Inventory of Existing Commercial Chemical Substances)	
National regulations		
Bis(trimethylsilyl) adipate (18105-31-2)		
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)		
15.3. US State regulations		
No additional information available		

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SECTION 16: Other information

Full text of H-phrases:: H227	Combustible liquid
H319	Causes serious eve irritation
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; GHS: The Globally Harmonized System of Classification and Labelling.
HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)
Physical	: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.
Prepared by safety and environmental affairs.	
Date of issue: 11/30/2016 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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