

1,6-BIS(TRICHLOROSILYL)HEXANE Safety Data Sheet SIB1812.0 Date of issue: 13/10/2015 Version: 1.0

Enabling Your Technology	
SECTION 1: Identification of the	substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Physical state	: Liquid
Substance name	: 1,6-BIS(TRICHLOROSILYL)HEXANE
Product code	: SIB1812.0
Formula	: C6H12Cl6Si2
Synonyms	: 1,1,1,8,8,8-HEXACHLORO-1,8-DISILAOCTANE; 1,6-HEXANEDIYLBIS[TRICHLOROSILANE
Chemical family	: ORGANOCHLOROSILANE
	substance or mixture and uses advised against
1.2.1. Relevant identified uses	. Chamical intermediate
Use of the substance/mixture	: Chemical intermediate
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the sa	fety 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	
GELEST INC.	
Fritz-Klatte-Strasse 8	
65933 Frankfurt	
Germany	
T +49 (0) 69 3535106-500 - F +49 (0) 69 35	535106-501 - (M-F): 8:00 AM - 4:00 PM
info@gelestde.com - www.gelestde.com	
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 mixture
Classification according to Regulation (E	EC) No. 1272/2008 [CLP]
Skin corrosion/irritation, Category 1B	H314
Serious eye damage/eye irritation, Category	y 1 H318
Full text of H statements : see section 16	
Adverse physicochemical, human health	and environmental effects
No additional information available	
2.2. Label elements	
Labelling according to Regulation (EC) N	No. 1272/2008 [CL P]
Hazard pictograms (CLP)	
	GHS05
Signal word (CLP)	: Danger
Hazard statements (CLP)	: H314 - Causes severe skin burns and eye damage.
Precautionary statements (CLP)	 P280 - Wear protective gloves/protective clothing/eye protection/face protection. P260 - Do not breathe vapours.
	P264 - Wash hands thoroughly after handling.
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	P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER or doctor/physician
EUH-statements	: EUH014 - Reacts violently with water.
2.3. Other hazards	
Other hazards not contributing to the classification	: Hydrogen chloride may be formed by reaction with water and moisture in air. The US OSHA PEL (TWA) for hydrogen chloride is 5 ppm.

SECTION 3: Composition/information on ingredients				
: Mono-constituent				
: 1,6-BIS(TRICHLOROSILYL)HEXANE				
: 13083-94-8				
: 235-994-7				

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1,6-Hexanediylbis[trichlorosilane	(CAS-No.) 13083-94-8 (EC-No.) 235-994-7	96 - 100	Skin Corr. 1B, H314 Eye Dam. 1, H318

Full text of H-statements: see section 16

3.2. Mixtures		
Not applicable		
SECTION 4: First aid measures		
4.1. Description of first aid measure	is in the second s	
First-aid measures general		minated clothing and shoes. In case of accident or if you feel unwell, seek
		immediately (show the label where possible). If possible show this sheet; if no packaging or label.
First-aid measures after inhalation	: Remove perso advice.	n to fresh air and keep comfortable for breathing. If you feel unwell, seek med
First-aid measures after skin contact	: Wash with plei	nty of water/ Get immediate medical advice/attention.
First-aid measures after eye contact		ush eyes thoroughly with water for at least 15 minutes. Remove contact lenses asy to do. Continue rinsing. Get immediate medical advice/attention.
First-aid measures after ingestion	: Never give any feel unwell.	thing by mouth to an unconscious person. Get medical advice/attention if you
4.2. Most important symptoms and	effects, both acute an	d delayed
Symptoms/effects	: Causes severe	e skin burns and eye damage.
Symptoms/effects after inhalation	: May cause irrit	ation to the respiratory tract.
Symptoms/effects after skin contact	: Causes (sever	e) skin burns.
Symptoms/effects after eye contact	: Causes seriou	s eye damage.
Symptoms/effects after ingestion	: May be harmfu	I if swallowed.
4.3. Indication of any immediate me	dical attention and sp	ecial treatment needed
No additional information available		
SECTION 5: Firefighting measure	es	
5.1. Extinguishing media		
Suitable extinguishing media	: Water spray. F	oam. Carbon dioxide. Dry chemical.
Unsuitable extinguishing media	: Water.	
5.2. Special hazards arising from th	e substance or mixtur	e
Fire hazard		quid. Irritating fumes of hydrochloric acid and organic acid vapors may develop is exposed to water or open flame.
5.3. Advice for firefighters		
Firefighting instructions	: Exercise caution	on when fighting any chemical fire. Use water spray to cool exposed surfaces.
Protection during firefighting		re area without proper protective equipment, including respiratory protection. nd skin contact and do not breathe vapour and mist.
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SECTION 6: Accidental release mea	asures
6.1. Personal precautions, protective e	quipment and emergency procedures
General measures	: Remove ignition sources. Use special care to avoid static electric charges.
6.1.1. For non-emergency personnel	
Protective equipment	: Wear protective equipment as described in Section 8.
Emergency procedures	: Evacuate unnecessary personnel.
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. Not	ify authorities if liquid enters sewers or public waters.
6.3. Methods and material for containm	nent and cleaning up
For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
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 persona	al protection.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Precautions for safe handling	: Avoid all eye and skin contact and do not breathe vapour and mist. Ground/bond container and receiving equipment. Provide good ventilation in process area to prevent formation of vapour. Use only non-sparking tools.
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, includ	ling any incompatibilities
Storage conditions	: Keep container tightly closed. Keep in a cool place. Store locked up.
Incompatible materials	: alcohols. Amines. Oxidizing agent.
Storage area	: Store in a well-ventilated place. Store away from heat.
7.3. Specific end use(s)	

SECT	ION 8: Exposure controls/personal protec	tion	
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 or face shield. 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.

	l properties
9.1. Information on basic physical and	I chemical properties
Physical state	: Liquid
Appearance	: Clear liquid.
Molecular mass	: 353.05 g/mol
Colour	: Pale yellow.
Odour	: Acrid.
Odour threshold	: No data available
Refractive index	: 1.4759
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: < 25 °C
Boiling point	: 148 - 150 °C @10 mm Hg
Flash point	: 75 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Combustible liquid
Vapour pressure	: < 1 mm Hg @ 25°C
Relative vapour density at 20 °C	: >1
Relative density	: 1.327
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
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivit	v
SECTION TO. Stability and reactivit	
10.1. Reactivity	
10.1. Reactivity No additional information available	
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STOT-single exposure		
	: Not classifi	ed.
STOT-repeated exposure	: Not classifi	ed
Aspiration hazard	: Not classifi	ed
Symptoms/effects after inhalation	: May cause	irritation to the respiratory tract.
Symptoms/effects after skin contact	,	evere) skin burns.
Symptoms/effects after eye contact		rious eye damage.
Symptoms/effects after ingestion		mful if swallowed.
Reason for classification	: Expert judg	
SECTION 12: Ecological information		
12.1. Toxicity Acute aquatic toxicity	: Not classifi	ed
Chronic aquatic toxicity	: Not classifi	
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. Results of PBT and vPvB assessme	nt	
No additional information available		
12.6. Other adverse effects		
Other adverse effects	: This substa	ance may be hazardous to the environment.
SECTION 42: Dispessel consideration		
SECTION 13: Disposal consideration	15	
13.1. Waste treatment methods	· Do not diar	oose of waste into sewer.
Sewage disposal recommendations Product/Packaging disposal recommendations		a safe manner in accordance with local/national regulations. Dispose of
rouder ackaging disposal recommendations		ontainer to licensed waste disposal facility.
Ecology - waste materials	: Avoid relea	se to the environment.
SECTION 14: Transport information		
14.1. UN number		
In accordance with ADR / RID / IMDG / IATA / A	DN	
In accordance with ADR / RID / IMDG / IATA / A	DN	
14.1. UN number		
14.1. UN number UN-No. (ADR)	: 2987	
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14.3. Transport hazard class(es)			
ADR			
Transport hazard class(es) (ADR)	: 8		
Danger labels (ADR)	: 8		
	8		
INDO			
IMDG Transport hazard class(es) (IMDG)	: 8		
Danger labels (IMDG)	: 8		
	. 0		
	8		
	NY .		
ΙΑΤΑ			
Transport hazard class(es) (IATA)	: 8		
Hazard labels (IATA)	: 8		
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	· />		
ADN			
Transport hazard class(es) (ADN)	: 8		
Danger labels (ADN)	: 8		
	:		
RID			
Transport hazard class(es) (RID)	: 8		
Danger labels (RID)	: 8		
	^		
	8		
14.4. Packing group			
Packing group (ADR)	: 11		
Packing group (IMDG)	: 11		
Packing group (IATA)	: 11		
Packing group (ADN)	: 11		
Packing group (RID)	: 11		
14.5. Environmental hazards			
Dangerous for the environment	: No		
Marine pollutant	: No		
Other information	: No supplementary info	nation available	
Print date: 12/04/2019	EN (English)	SDS ID: SIB1812.0	6
			0

14.6. Special precautions for user

- Overland transport	
Classification code (ADR)	: C3
Special provisions (ADR)	: 548
Limited quantities (ADR)	: 0
Excepted quantities (ADR)	: E0
Packing instructions (ADR)	: P010
Special packing provisions (ADR)	: RR7
Mixed packing provisions (ADR)	: MP15
Portable tank and bulk container instructions (ADR)	: T14
Portable tank and bulk container special provisions (ADR)	: TP2, TP7, TP27
Tank code (ADR)	: L4BN
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Hazard identification number (Kemler No.)	: X80
Orange plates	X80 2987
	2907
Tunnel restriction code (ADR)	: E
EAC code	: 4W
- Transport by sea	
Limited quantities (IMDG)	: 0
Excepted quantities (IMDG)	: E0
Packing instructions (IMDG)	P010
Tank instructions (IMDG)	: T14
Tank special provisions (IMDG)	: TP2, TP7, TP13, TP27
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: C
Stowage and handling (IMDG)	: SW2
Properties and observations (IMDG)	: Colourless liquids with a pungent odour. Immiscible with water. React violently with water or
	steam, evolving hydrogen chloride, an irritating and corrosive gas apparent as white fumes. When involved in a fire, evolve toxic gases. In the presence of moisture, highly corrosive to most metals. Cause burns to skin, eyes and mucous membranes.

- Air transport

Print date: 12/04/2019

PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Forbidden
PCA limited quantity max net quantity (IATA)	: Forbidden
PCA packing instructions (IATA)	: Forbidden
PCA max net quantity (IATA)	: Forbidden
CAO packing instructions (IATA)	: 876
CAO max net quantity (IATA)	: 30L
Special provisions (IATA)	: A1
ERG code (IATA)	: 8L
- Inland waterway transport	
Classification code (ADN)	: C3
Special provisions (ADN)	: 548
Limited quantities (ADN)	: 0
Excepted quantities (ADN)	: E0
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0
- Rail transport	
Classification code (RID)	: C3

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Special provisions (RID)	: 548
Limited quantities (RID)	: 0
Excepted quantities (RID)	: E0
Packing instructions (RID)	: P010
Mixed packing provisions (RID)	: MP15
Portable tank and bulk container instructions (RID)	: T14
Portable tank and bulk container special provisions (RID)	: TP2, TP7, TP27
Tank codes for RID tanks (RID)	: L4BN
Transport category (RID)	: 2
Colis express (express parcels) (RID)	: CE6
Hazard identification number (RID)	: X80

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

1,6-BIS(TRICHLOROSILYL)HEXANE is not on the REACH Candidate List

1,6-BIS(TRICHLOROSILYL)HEXANE is not on the REACH Annex XIV List

1,6-BIS(TRICHLOROSILYL)HEXANE is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

1,6-BIS(TRICHLOROSILYL)HEXANE is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

15.1.2. National regulations

Germany

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance) Netherlands			
SZW-lijst van kankerverwekkende stoffen:The substance is not listedSZW-lijst van mutagene stoffen:The substance is not listedNIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding:The substance is not listedNIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid:The substance is not listedNIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling:The substance is not listedDenmark:The substance is not listedClass for fire hazard:Class III-1Store unit:50 literClassification remarks:Flammable according to the Danish Ministry of Justice; Emergency management guidelines for 		,	Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
SZW-lijst van mutagene stoffen : The substance is not listed NIET-limitatieve lijst van voor de voortplanting : The substance is not listed giftige stoffen – Borstvoeding : The substance is not listed NIET-limitatieve lijst van voor de voortplanting : The substance is not listed giftige stoffen – Vruchtbaarheid : The substance is not listed NIET-limitatieve lijst van voor de voortplanting : The substance is not listed giftige stoffen – Ontwikkeling : The substance is not listed Denmark : Class for fire hazard : Class III-1 Store unit : 50 liter Classification remarks : Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed Danish National Regulations : Young people below the age of 18 years are not allowed to use the product	Netherlands		
NIET-imitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : The substance is not listed NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : The substance is not listed NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : The substance is not listed Denmark : The substance is not listed Class for fire hazard : Class III-1 Store unit : 50 liter Classification remarks : Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed Danish National Regulations : Young people below the age of 18 years are not allowed to use the product	SZW-lijst van kankerverwekkende stoffen	:	The substance is not listed
giftige stoffen – Borstvoeding Image: Construct the storage of flammable liquids must be followed NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid Image: Construct the storage of 18 years are not allowed to use the product NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling Image: Construct the storage of 18 years are not allowed to use the product Denmark Image: Construct the storage of 18 years are not allowed to use the product	SZW-lijst van mutagene stoffen	:	The substance is not listed
giftige stoffen – Vruchtbaarheid NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling Denmark Class for fire hazard : Class III-1 Store unit : 50 liter Classification remarks : Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed Danish National Regulations : Young people below the age of 18 years are not allowed to use the product	, , , ,	:	The substance is not listed
giftige stoffen – Ontwikkeling Denmark Class for fire hazard Store unit Classification remarks Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed Danish National Regulations Young people below the age of 18 years are not allowed to use the product	, , , ,	:	The substance is not listed
Class for fire hazard : Class III-1 Store unit : 50 liter Classification remarks : Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed Danish National Regulations : Young people below the age of 18 years are not allowed to use the product	, , , ,	:	The substance is not listed
Store unit : 50 liter Classification remarks : Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed Danish National Regulations : Young people below the age of 18 years are not allowed to use the product	Denmark		
Classification remarks : Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed Danish National Regulations : Young people below the age of 18 years are not allowed to use the product	Class for fire hazard	:	Class III-1
Danish National Regulations the storage of flammable liquids must be followed : Young people below the age of 18 years are not allowed to use the product	Store unit	:	50 liter
	Classification remarks	:	
15.2. Chemical safety assessment	Danish National Regulations	:	Young people below the age of 18 years are not allowed to use the product
	15.2. Chemical safety assessment		

No additional information available

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; GHS: The Globally Harmonized System of Classification and Labelling; APF: Assigned Protection Factor

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Other information

: Prepared by safety and environmental affairs.

Full text of H- and EUH-sta	itements:
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
EUH014	Reacts violently with water.

SDS EU (REACH Annex II) - Custom

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