

Safety Data Sheet SIH6115.0 Date of issue: 11/04/2014 Version: 1.0

SECTION 1: Identification of the s	ubstance/mixture and of the company/undertaking		
1.1. Product identifier			
Product form	: Substance		
Physical state	: Liquid		
Substance name	: HEXAMETHYLDISILOXANE, 98%		
Product code	: SIH6115.0		
Formula	: C6H18OSi2		
Synonyms	: MM, HMDSO, HMDS; OXYBIS(TRIMETHYLSILANE); BIS(TRIMETHYLSILYL) OXIDE		
Chemical family	: ORGANOSILOXANE		
1.2. Relevant identified uses of the su	ubstance 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 safe	etv data sheet		
GELEST, INC.			
11 East Steel Road			
Morrisville, PA 19067			
USA T 215-547-1015 - F 215-547-2484 - (M-F): 8:0			
info@gelest.com - www.gelest.com	JU AIM - 5.50 FM 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 o			
Classification (GHS-US)			
Flam. Liq. 2 H225 Aquatic Acute 2 H401			
Aquatic Acute 2 11401 Aquatic Chronic 2 H411			
Full text of H-phrases: see section 16			
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)			
	GHS02 GHS09		
Signal word (GHS-US)	: Danger		
Hazard statements (GHS-US)	: H225 - Highly flammable liquid and vapor		
hazard statements (0113-00)	H401 - Toxic to aquatic life		
	H411 - Toxic to aquatic life with long lasting effects		
Precautionary statements (GHS-US)	: P280 - Wear protective gloves/protective clothing/eye protection/face protection		
	P210 - Keep away from heat, open flames, sparks No smoking		
	P233 - Keep container tightly closed		
	P240 - Ground/bond container and receiving equipment P241 - Use explosion-proof electrical equipment		
	P242 - Use only non-sparking tools		
	P243 - Take precautionary measures against static discharge		
	P273 - Avoid release to the environment		
	P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower		
	P370+P378 - In case of fire: Use water spray, foam, carbon dioxide, dry chemical to extinguish		
	P391 - Collect spillage		
	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			

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2.4. Unknown acute toxicity (GHS-U	S)			
No data available				
SECTION 3: Composition/inform	ation on ingre	dients		
3.1. Substance				
Substance type	: Mono-con			
Name		HYLDISILOXANE, 98%		
	: 107-46-0			
EC no	: 203-492-7			
Name		oduct identifier	%	Classification (GHS-US)
Hexamethyldisiloxane	(CA	S No) 107-46-0	> 97	Flam. Liq. 2, H225 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
4.1. Description of first aid measure		entered at a latt to the term		the second s
First-aid measures general	medical a	ontaminated clothing and shoes. In lvice immediately (show the label how packaging or label.		
First-aid measures after inhalation		o fresh air and keep at rest in a pos	sition comfortable	e for breathing. Call a physician.
First-aid measures after skin contact		plenty of soap and water.		.
First-aid measures after eye contact	advice/atte			
First-aid measures after ingestion	: Never give	anything by mouth to an unconsc	cious person. Ge	t medical advice/attention.
4.2. Most important symptoms and	effects, both acut	e and delayed		
Symptoms/injuries after inhalation		: May cause irritation to the respiratory tract. Overexposure may cause: Coughing. Nausea. Headache.		
Symptoms/injuries after skin contact	: May cause	: May cause skin irritation.		
Symptoms/injuries after eye contact		: May cause eye irritation.		
Symptoms/injuries after ingestion	: May be ha	rmful if swallowed.		
4.3. Indication of any immediate me	dical attention an	d special treatment needed		
No additional information available				
SECTION 5: Firefighting measure	s			
5.1. Extinguishing media				
Suitable extinguishing media	: Water spr	ay. Foam. Carbon dioxide. Dry che	emical.	
Unsuitable extinguishing media	: None know	vn.		
5.2. Special hazards arising from the	e substance or m	xture		
Fire hazard	material is	nmable liquid and vapor. Irritating f exposed to elevated temperatures en poured.		
5.3. Advice for firefighters				
Firefighting instructions	: Use water	spray to cool exposed surfaces. E	xercise caution	when fighting any chemical fire.
Protection during firefighting		er fire area without proper protecti ye and skin contact and do not bre		
SECTION 6: Accidental release n	neasures			
6.1. Personal precautions, protectiv	e equipment and	emergency procedures		
General measures	: Remove i	nition sources. Use special care to	o avoid static ele	ctric charges.
6.1.1. For non-emergency personnel				
Emergency procedures	: Evacuate	unnecessary personnel.		
6.1.2. For emergency responders	_ · ·	M		
Protective equipment	: Equip clea	nup crew with proper protection.		
6.2. Environmental precautions				

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

HEXAMETHYLDISILOXANE, 98% Safety Data Sheet

6.3. Methods and material for containmen	t and cleaning up			
	: Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or			
5 F	shovel spills into appropriate container for disposal. Use only non-sparking tools.			
6.4. Reference to other sections				
See Heading 8. Exposure controls and personal p	rotection.			
SECTION 7: Handling and storage				
7.1. Precautions for safe handling				
	: Handle empty containers with care because residual vapors are flammable.			
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. Take precautionary measures against static			
	discharge. 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, including	any incompatibilities			
Technical measures				
	container and receiving equipment. Use explosion-proof electrical equipment.			
Storage conditions	: Keep container tightly closed.			
Incompatible materials	: Oxidizing agent. Peroxides.			
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/perso	nal 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.			
	: Wear suitable protective clothing.			
Respiratory protection	NIOSH-certified organic vapor (black cartridge) respirator.			
SECTION 9: Physical and chemical pr	operties			
9.1. Information on basic physical and che	emical properties			
Physical state	: Liquid			
Appearance	: Clear liquid.			
Molecular mass	: 162.38 g/mol			
Color	: No data available			
Odor	: Odorless.			
Odor threshold	: No data available			
Refractive index	: 1.3774			
рН	: No data available			
Relative evaporation rate (butyl acetate=1)	: 3.8			
Melting point	: No data available			
Freezing point	: -67 °C			
Boiling point	: 99 - 100 °C			
	: -1 ℃			
•	: 243 °C			
I	: 340 °C			
3	: No data available			
Flammability (solid, gas)	Highly flammable liquid and vapor			
Vapor pressure	: 55 mm Hg @ 30°C			
	: 1.91 mPa			
	: 5.5			
	0.7636			

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1/00			
VOC content	: 100 %		
Solubility	: Insoluble in water. Water: 930 ppb Solubility parameter: 6.8		
Log Pow	: No data available		
Log Kow	: No data available		
Viscosity, kinematic	: 0.65 cSt		
Viscosity, dynamic	: No data available		
Explosive properties	: No data available		
Oxidizing properties	: No data available		
Explosive limits	: 1.25 - 18.6 vol % (lower; upper)		
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 in a cool place.			
10.3. Possibility of hazardous reactions No additional information available			
10.4. Conditions to avoid			
Heat. Open flame. Sparks.			
10.5. Incompatible materials			
Oxidizing agent. Peroxides.			
10.6. Hazardous decomposition products Organic acid vapors.			
SECTION 11: Toxicological informati	ion		
11.1. Information on toxicological effects			
Acute toxicity	: Not classified		
Hexamethyldisiloxane (107-46-0)			
	15956 ppm/4h		
LC50 inhalation rat (ppm)	15956 ppm/4h 32500 mg/kg		
	15956 ppm/4h 32500 mg/kg 15956.000 ppmV/4h		
LC50 inhalation rat (ppm) LDLo oral guinea pig	32500 mg/kg		
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12.2. Persistence and degradability	
Hexamethyldisiloxane (107-46-0)	
Persistence and degradability	May cause long-term adverse effects in the environment.
12.3. Bioaccumulative potential	
Hexamethyldisiloxane (107-46-0)	
BCF fish 1	1300
Log Pow	4.2
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	S
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.
Additional information	: Handle empty containers with care because residual vapors are flammable.
Ecology - waste materials	: Avoid release to the environment.
SECTION 14: Transport information	
14.1. UN number	
UN-No.(DOT)	: 1993
DOT NA no.	UN1993
14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: Flammable liquids, n.o.s. (HEXAMETHYLDISILOXANE)
Department of Transportation (DOT) Hazard Classes	 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 3 - Flammable liquid
Hazard labels (DOT)	
DOT Symbols	: G - Identifies PSN requiring a technical name
Packing group (DOT)	: II - Medium Danger
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
14.3. Additional information Other information	: No supplementary information available.
	. No supplementary information available.
Transport by sea DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a
	passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" or passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
Air transport DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
SECTION 15: Regulatory information	
15.1. US Federal regulations	

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Hexamethyldisiloxane (107-46-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

Hexamethyldisiloxane (107-46-0)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Canadian DSL (Domestic Sustances List)

- Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
- Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
- Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

15.3. US State regulations

-	
HEXAMETHYLDISILOXANE, 98%(107-46-0)	
U.S California - Proposition 65 - Carcinogens List	No
U.S California - Proposition 65 - Developmental Toxicity	No
U.S California - Proposition 65 - Reproductive Toxicity - Female	No
U.S California - Proposition 65 - Reproductive Toxicity - Male	No
Hovamothyldisilovano (107-16-0)	

Hexamethyldislioxane (107-46-0)				
U.S California -	U.S California -	U.S California -	U.S California -	No significance risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
		Female	Male	
No	No	No	No	
Hexamethyldisiloxane (107-46-0)				
U.S Texas - Effects Screening Levels - Long Term				
U.S Texas - Effects Scree	ening Levels - Short Term			

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::

Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Flam. Liq. 2	Flammable liquids Category 2
H225	Highly flammable liquid and vapor
H401	Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

HMIS III Rating

Health Flammability Physical

: 1 Slight Hazard - Irritation or minor reversible injury possible

- : 3 Serious Hazard
- : 0 Minimal Hazard

Prepared by safety and environmental affairs.

Date of issue: 11/04/2014 Version: 1.0

SDS US (GHS HazCom 2012) - Custom

11/04/2014

Safety Data Sheet

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

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