

Safety Data Sheet SIT8589.7 Date of issue: 09/30/2016 Version: Version: 1.0

abling	Your	Technology	
		(conneregy)	

SECTION 1: Identification		
1.1. Product identifier		
Product name	: 1-TRIMETHYLSILYL-1-HEXYNE	
Product code	: SIT8589.7	
Product form	: Substance	
Physical state	: Liquid	
Formula	: C9H18Si	
Synonyms	: HEXYNLTRIMETHYLSILANE	
Chemical family	: ORGANOSILANE	
1.2. Recommended use of the chemica	al and restrictions on use	
Recommended use	: Chemical intermediate	
	For research use only	
1.3. Details of the supplier of the safet	y 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	0 AM - 5:30 PM EST	
1.4. Emergency telephone number		
Emergency number	: CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)	
SECTION 2: Hazard(s) identificatio		
2.1. Classification of the substance or	mixture	
GHS-US classification Flammable liquids Category 3 H226 Full text of H statements : see section 16		
2.2. Label elements		
GHS-US labeling		
Hazard pictograms (GHS-US)	GHS02	
Signal word (GHS-US)	: Warning	
Hazard statements (GHS-US)	: H226 - Flammable liquid and vapor	
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 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 P403 + P235 - Keep in a cool place P501 - Dispose of contents/container to licensed waste disposal facility 	
2.3. Hazards not otherwise classified ((HNOC)	
No additional information available		
2.4. Unknown acute toxicity (GHS US)		

UNKNOV No data available

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SECTION 3: Composition/Informa	tion on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
Name	: 1-TRIMETHYLSILYL-1-HEXYNE		
CAS No	: 3844-94-8		
Name	Product identifier	%	GHS-US classification
1-Trimethylsilyl-1-hexyne	(CAS No) 3844-94-8	95 - 100	Flam. Liq. 3, H226
Full text of hazard classes and H-statements	: see section 16		
3.2. Mixture			
Not applicable			
4.1. Description of first aid measures	i		
First-aid measures general	: Remove contaminated clothing and shoes. I medical advice immediately (show the label available show packaging or label.		
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.		
First-aid measures after skin contact	: Wash with plenty of soap and water. Get me	dical advice/atte	ention.
First-aid measures after eye contact	: Immediately flush eyes thoroughly with wate present and easy to do. Continue rinsing. Ge		
First-aid measures after ingestion	: Never give anything by mouth to an unconso	cious person. Ge	et medical advice/attention.
4.2. Most important symptoms and e	ffects, 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	: May cause eye irritation.		
Symptoms/injuries after ingestion	: No information available.		
1.3. Indication of any immediate med	lical attention and special treatment needed		
No additional information available	ical attention and special reatment needed		
SECTION 5: Firefighting measures	S		
5.1. Extinguishing media			
Suitable extinguishing media	: Water spray. Foam. Carbon dioxide. Dry che	emical.	
Unsuitable extinguishing media	: Do not use straight streams.		
5.2. Special hazards arising from the	substance or mixture		
Fire hazard	: Flammable liquid and vapor. Irritating fumes material is exposed to elevated temperature		
Explosion hazard	: May form flammable/explosive vapor-air mix	ture.	
5.3. Advice for firefighters			
Firefighting instructions	: Exercise caution when fighting any chemical	fire. Use water	spray to cool exposed surfaces.
Protection during firefighting	: Do not enter fire area without proper protecti Avoid all eye and skin contact and do not bro	ve equipment, i	ncluding respiratory protection.
SECTION 6: Accidental release m	easures		
6.1. Personal precautions, protective	equipment and emergency procedures		
General measures	: Eliminate every possible source of ignition. I	Jse special care	to avoid static electric charges.
6.1.1. For non-emergency personnel			
Protective equipment	: Wear protective equipment as described in S	Section 8.	
Emergency procedures	: Evacuate unnecessary personnel.		
	,,		
6.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without suitable proper protection. For further information ref		
	protection".		Exposure controls/personal
			Exposure controis/personal
6.2. Environmental precautions			Exposure controls/personal
6.2. Environmental precautions Prevent entry to sewers and public waters. N	protection". otify authorities if liquid enters sewers or public wate		Exposure controis/personal
6.2. Environmental precautions	protection". otify authorities if liquid enters sewers or public wate	ers.	
 6.2. Environmental precautions Prevent entry to sewers and public waters. N 6.3. Methods and material for contain 	protection". otify authorities if liquid enters sewers or public wate ment and cleaning up : Contain any spills with dikes or absorbents t	ers. o prevent migrat	tion and entry into sewers or

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6.4. **Reference to other sections** See Heading 8. Exposure controls and personal protection. SECTION 7: Handling and storage Precautions for safe handling 7.1. Additional hazards when processed : Handle empty containers with care because residual vapors are flammable. 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. Take precautionary measures against static discharge. 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, including any incompatibilities **Technical measures** : Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical equipment. Storage conditions : Keep container tightly closed. Keep in a cool place. Incompatible materials : Oxidizing agent. Peroxides. Strong acids. : Store in a well-ventilated place. Store away from heat. Storage area SECTION 8: Exposure controls/personal 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 organic vapor (black cartridge) respirator.

SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and cl	nemical properties		
Physical state	: Liquid		
Appearance	: Clear liquid.		
Molecular mass	: 154.33 g/mol		
Color	: Straw.		
Odor	: Distinct.		
Odor threshold	: No data available		
Refractive index	: No data available		
pH	: No data available		
Relative evaporation rate (butyl acetate=1)	: No data available		
Melting point	: No data available		
Freezing point	: <0°C		
Boiling point	: 155 °C		
Flash point	: 37 °C		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: Flammable liquid and vapor		
Vapor pressure	: <100 mm Hg @ 25°C		
Relative vapor density at 20 °C	: No data available		
Relative density	: 0.77		
VOC content	: 100 %		
Solubility	: Insoluble in water.		
Log Pow	: No data available		
Log Kow	: No data available		

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Other adverse effects Effect on ozone layer	This substance may be hazardous to the environment.No additional information available
12.5. Other adverse effects	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.3. Bioaccumulative potential	
Persistence and degradability No additional information available	
No additional information available	
12.1. Toxicity	
SECTION 12: Ecological information	
Symptoms/injuries after ingestion	: No information available.
Symptoms/injuries after eye contact	: May cause eye irritation.
Symptoms/injuries after skin contact	: May cause skin irritation.
Symptoms/injuries after inhalation	: May cause irritation to the respiratory tract.
Aspiration hazard	: Not classified
Specific target organ toxicity (repeated	: Not classified
Reproductive toxicity Specific target organ toxicity (single exposure)	: Not classified : Not classified
	None of the components in this product at concentrations >0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen
Carcinogenicity	: Not classified
Respiratory or skin sensitization Germ cell mutagenicity	: Not classified : Not classified
Serious eye damage/irritation	: Not classified
Skin corrosion/irritation	: Not classified
Acute toxicity	: Not classified
11.1. Information on toxicological effects	
SECTION 11: Toxicological informat	ion
Organic acid vapors.	
10.6. Hazardous decomposition products	
Oxidizing agent. Peroxides. Strong acids.	
10.5. Incompatible materials	
10.4. Conditions to avoid Heat. Open flame. Sparks.	
No additional information available	
10.3. Possibility of hazardous reactions	
Stable when stored in sealed containers.	
10.2. Chemical stability	
No additional information available	
10.1. Reactivity	
SECTION 10: Stability and reactivity	
9.2. Other information No additional information available	
Explosion limits	: No data available
Oxidizing properties	: No data available
Explosive properties	: No data available

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Effect on the global warming	: No known effect	s from this product.
GWPmix comment		s from this product.
SECTION 13: Disposal consideratio	ns	
13.1. Waste treatment methods		
Sewage disposal recommendations	: Do not dispose	of waste into sewer.
Waste disposal recommendations		ted. Dispose in a safe manner in accordance with local/national regulations. ents/container to licensed waste disposal facility.
Additional information	: Handle empty c	ontainers with care because residual vapors are flammable.
Ecology - waste materials		the environment.
SECTION 14: Transport information		
14.1. UN number		
UN-No.(DOT)	: 1993	
DOT NA no.	UN1993	
14.2. UN proper shipping name		
Transport document description	: UN1993 Flamm	able liquids, n.o.s. (1-TRIMETHYLSILYL-1-HEXYNE), 3, III
Proper Shipping Name (DOT)	: Flammable liqui	
······································		SILYL-1-HEXYNE)
Class (DOT)		mmable and combustible liquid 49 CFR 173.120
Packing group (DOT)	: III - Minor Dange	
Hazard labels (DOT)	: 3 - Flammable li	
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203	
DOT Packaging Bulk (49 CFR 173.xxx)	: 242	
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150	
DOT Symbols	: G - Identifies PS	SN requiring a technical name
14.3. Additional information		
Emergency Response Guide (ERG) Number	: 128	
Other information	· No supplementa	ry information available.
	. No oupplomente	
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
207 Yosoo Olowayo Localion	passenger vess	
Air transmot	-	
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	n	
15.1. US Federal regulations		
1-TRIMETHYLSILYL-1-HEXYNE (3844-94-8)		
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
<u>.</u>		

1-Trimethylsilyl-1-hexyne (3844-94-8)

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

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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	
No additional information available	
SECTION 16: Other information	
Full text of H-phrases::	
H226	Flammable liquid and vapor

H226	Flammable liquid and vapor	
Abbreviations and acronyms	: Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Leth 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 a Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Servi 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	 3 Serious Hazard - Materials capable of ignition under almost all normal temperature conditions. Includes flammable liquids with flash points below 73 F and boiling points above 100 F. as well as liquids with flash points between 73 F and 100 F. (Classes IB & IC) 	
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 af	fairs.	
Date of issue: 09/30/2016 Version: 1.0		
SDS US (GHS HazCom 2012) - Custom		
According to Federal Register / Vol. 77, No. 58	3 / Monday, March 26, 2012 / Rules and Regulations	

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