

(HEPTADECAFLUORO-1,1,2,2- TETRAHYDRODECYL)TRICHLOROSILANE Safety Data Sheet SIH5841.0 Date of issue: 11/21/2014 Revision date: 06/09/2015 Version: 2

Version: 2.0

SECTION 1: Identification of the	substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Physical state	: Liquid
Substance name	: (HEPTADECAFLUORO-1,1,2,2-TETRAHYDRODECYL)TRICHLOROSILANE
Product code	: SIH5841.0
Formula	: C10H4Cl3F17Si
Synonyms	: PERFLUORODECYL-1H,1H,2H,2H-TRICHLOROSILANE; (1H,1H,2H,2H- PERFLUORODECYL)TRICHLOROSILANE
Chemical family	: CHLOROSILANE
1.2. Relevant identified uses of the	substance 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 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 info@gelest.com	3:00 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: Hazards identification	bn state in the state of the st
2.1. Classification of the substance	or mixture
GHS-US classification	
Skin Corr. 1B H314 Eye Dam. 1 H318 Full text of H statements : see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	: GHS05
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	: H314 - Causes severe skin burns and eye damage H318 - Causes serious eye damage
Precautionary statements (GHS-US)	 P280 - Wear protective gloves/protective clothing/eye protection/face protection P260 - Do not breathe vapors P264 - Wash hands thoroughly after handling P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting P303+P361+P353 - If on skin (or hair): take off immediately all contaminated clothing. rinse skin with water/shower P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing 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 doctor P363 - Wash contaminated clothing before reuse P405 - Store locked up P501 - Dispose of contents/container to licensed waste disposal facility P321 - Specific treatment (see first aid instructions on this label)
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.
04/26/2016	EN (English LIS) SDS ID: SIH58/1.0 Pag

No data available				
SECTION 3: Composition/Informatic	n on ingredients			
3.1. Substance				
Substance type	: Mono-constituent			
lame	: (HEPTADECAFLUORO-1,1,2,2-TE	TRAHYDRODECYL)TR	ICHLOROSILANE	
CAS No	: 78560-44-8			
EC no	: 616-629-4			
Name	Product identifier	%	GHS-US classification	
(Heptadecafluoro-1,1,2,2-tetrahydrodecyl)trichlorosila	ne (CAS No) 78560-44-8	97 - 100	Skin Corr. 1B, H314 Eye Dam. 1, H318	
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
1.1. Description of first aid measures				
First-aid measures general	: Remove contaminated clothing and medical advice immediately (show t available show packaging or label.			
First-aid measures after inhalation	: Remove victim to fresh air and keep advice/attention.	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medica		
First-aid measures after skin contact	: Wash with plenty of soap and water	: Wash with plenty of soap and water. Get immediate medical advice/attention.		
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.			
First-aid measures after ingestion	: Never give anything by mouth to an	unconscious person. G	et medical advice/attention.	
.2. Most important symptoms and effe	cts, both acute and delayed			
Symptoms/injuries	: Causes severe skin burns and eye damage.			
Symptoms/injuries after inhalation	: May cause irritation to the respiratory tract.			
Symptoms/injuries after skin contact	: Causes (severe) skin burns.			
Symptoms/injuries after eye contact Symptoms/injuries after ingestion	: Causes serious eye damage.			
	: May be harmful if swallowed.			
I.3. Indication of any immediate medica No additional information available	l attention and special treatment need	led		
SECTION 5: Firefighting measures				
5.1. Extinguishing media	Water and France Orders distribute	Davidson		
Suitable extinguishing media	: Water spray. Foam. Carbon dioxide : Water.	. Dry chemical.		
Insuitable extinguishing media				
5.2. Special hazards arising from the su		and anneals addresses	en en en el en el en en la entre d'al l'a	
Fire hazard	: Irritating fumes of hydrogen chloride exposed to water or open flame.	and organic acid vapol	's may develop when material is	
.3. Advice for firefighters				
Firefighting instructions	: Exercise caution when fighting any			
Protection during firefighting	: Do not enter fire area without prope Avoid all eye and skin contact and c			
SECTION 6: Accidental release mea	sures			
5.1. Personal precautions, protective ed	uipment and emergency procedures			
6.1.1. For non-emergency personnel				
Protective equipment	: Wear protective equipment as desc	ribed in Section 8.		
Emergency procedures	: Evacuate unnecessary personnel.			
6.1.2. For emergency responders				
Protective equipment	: Do not attempt to take action without	t suitable protective equ	ipment. Equip cleanup crew with	

Hand protection : Neoprene or nitrile rubber gloves. Eye protection : Chemical goggles or face shield. Contact lenses should not be wom. Skin and body protection : Wear suitable protective clothing. Respiratory protection : Wear suitable protective clothing. Store on many court from use, respiratory protection equipment is recommended. NIOSH-certified combination organic vapor/acid gas (yellow cartridge) respirator. SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties Physical state : Liquid Appearance : Clear to hazy. Odor : Clear to hazy. Odor : No data available Relative evaporation rate (butyl acetate=1) : No data available Relative evaporation rate (butyl acetate=1) : No data available Freezing point : 10 - 11 °C Boiling point : 216 - 218 °C Flash point : No data available Flash point : No data available Flash point : No data available Flash point : 216 - 218 °C Flash point : No data available Flash point : No data available Flash point : No data		
6.3. Methods and material for containment and cleaning up For contain any spills with dikes or absorbents to prevent migration and entry into severs or catawama. Wethods for cleaning up : Chain up any spills with dikes or absorbents to prevent migration and entry into severs or cathwama. 6.4. Reference to other sections See Heading 8. Exposure controls and partonal protection. SEECTION 7: Handling and storage 7.1. Precutations for sale handling Precutations for sale handling Precutations for sale storage, including any incompatibilities Storage conditions : Wash contaminated of totaling biologn experime. Wash hands and other exposed areas with mild soop and water before earling, dimking or smoking and when leaving work. 7.3. Specific end use(s) No additional information available Storage area : Store in a well-ventilated place. Store away from heat. 7.3. Specific end use(s) No additional information available Storage area : Store in a well-ventilated place. Store away from heat. 7.3. Specific end use(s) No additional information available Storage area : Store in a well-ventilated place. Store away from heat. 7.3. Specific end use(s) : Provide local exhaust or general nom ventilation. 82. Exposure controls : Provide local exhaust or general nom ventilation. <	6.2. Environmental precautions	
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For containment : Contain any spills with dikes or absorbents to prevent migration and entry into severs or strovel spills into appropriate container for disposal. 6.4. Reference to other sections : Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or shrovel spills into appropriate container for disposal. 6.4. Reference to other sections : Section 2: A thirdlifting and Storage 7.1. Precautions for safe handling : A void all eys and skin contact and do not breather vapor and mist. Provide good ventilation in process area to prevent accumulation of vapors. 7.2. Conditions for safe storage, including any incompatibilities : Wash containmated cloining before rouse. Wash hands and other exposed areas with mild scorage and water before easing. dimining or shoring and week. 7.3. Specific end use(s) : A void all eys and skin contact and do not breather vapor and meas. 7.3. Specific end use(s) : A void all unrecessing dimining or shoring and week. 7.4. Controlons for safe storage controls / personal protection : A void all unrecessing exposure exposure exposed areas with mild scorage area. 7.3. Specific end use(s) : A void all unrecessing exposure exposed areas with mild scorage area. 7.4. Control parameters : A void all unrecessing exposure exposure exposed areas with mild scorage areas with mild scorage area. 7.4. Specific end use(s) : A void all unrecessing exposure exposure exposure exposed areas with mild exposure exposure exposed areas with mild ex	6.3 Methods and material for containme	nt and cleaning up
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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. SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties Physical state : Liquid Appearance : Liquid. Molecular mass : S81.56 g/mol Color : Clear to hazy. Odor : Acrid. Similar to hydrogen chloride. Odor threshold : No data available Refractive index : 1.3490 pH : No data available Relative evaporation rate (butyl acetate=1) : No data available Relative evaporation rate (butyl acetate=1) : No data available Freezing point : 216 - 218 °C Flash point : 216 - 218 °C Flash point : No data available Decomposition temperature : No data available Planmability (solid, gas) : No data available	Hand protection	· Neoprene or nitrile rubber gloves
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Reason for classification : Expert judgment	Symptoms/injuries after eye contact	: Causes serious eye damage.
	Symptoms/injuries after ingestion	: May be harmful if swallowed.
SECTION 12: Ecological information	Reason for classification	: Expert judgment
	SECTION 12: Ecological information	

SECT	ION 12: Ecological information
12.1.	Toxicity
No addi	tional information available
12.2.	Persistence and degradability
No addi	tional 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 ecological damage caused by this product.
Other information	: Perfluorooctyl compounds have been shown to persist in the environment.
SECTION 13: Disposal consideration	ns
13.1. Waste treatment methods	
Sewage disposal recommendations	: Do not dispose of waste into sewer.
Waste disposal recommendations	: 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)	: 2987
DOT NA no.	UN2987
14.2. UN proper shipping name	
Proper Shipping Name (DOT)	Chlorosilanes, corrosive, n.o.s.
	((HEPTADECAFLUORO-1,1,2,2-TETRAHYDRODECYL)TRICHLOROSILANE) : 8 - Class 8 - Corrosive material 49 CFR 173.136
Class (DOT) Hazard labels (DOT)	: 8 - Class 8 - Corrosive material 49 CFR 173.136 : 8 - Corrosive
Tiazaru labels (DOT)	
	8
Packing group (DOT)	: II - Medium Danger
DOT Packaging Exceptions (49 CFR 173.xxx)	: None
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 206
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
14.3. Additional information	
Emergency Response Guide (ERG) Number	: 156
Other information	: No supplementary information available.
Transport by sea	
DOT Vessel Stowage Location	: C - The material must be stowed "on deck only" on a cargo vessel and on a passenger vessel
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
Air transport	
DOT Quantity Limitations Passenger aircraft/rail	: Forbidden
(49 CFR 173.27)	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 30 L
SECTION 15: Regulatory information	n
15.1. US Federal regulations	
(Heptadecafluoro-1,1,2,2-tetrahydrodecyl)tri	ichlorosilane (78560-44-8)
Listed on the United States TSCA (Toxic Subs	
EPA TSCA Regulatory Flag	S - S - indicates a substance that is identified in a proposed or final Significant New Uses Rule
15.2. International regulations	

Safety Data Sheet

Listed on the Canadian NDSL (Non-Domestic Substances List)

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

Listed on NZIOC (New Zealand Inventory of Chemicals)

15.3. US State regulations

(HEPTADECAFLUORC	-1,1,2,2-TETRAHYDRODECYL)TRICHLOROSILANE(78560-4	14-8)	
U.S California - Propo	sition 65 - Carcinogens List	No		
U.S California - Propo Toxicity	sition 65 - Developmental	No		
U.S California - Propo Toxicity - Female	sition 65 - Reproductive	No		
U.S California - Proposition 65 - Reproductive Toxicity - Male		No		
(Heptadecafluoro-1,1,2,2-tetrahydrodecyl)trichlorosilane (78560-44-8)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
No	No	No	No	

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:: H314 Causes severe skin burns and eye damage H318 Causes serious eye damage **HMIS III Rating** Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

Flammability	: 2 Moderate Hazard
Physical	: 1 Slight Hazard

Prepared by safety and environmental affairs.

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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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