

Safety Data Sheet SIO6624.0 Date of issue: 03/08/2016 Version: 1.0

Linabiling four recimology	
	bstance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Physical state	: Liquid
Substance name	: n-OCTADECYLMETHOXYDICHLOROSILANE, tech-95
Product code	: SIO6624.0
Formula	
Synonyms	
Chemical family	: ORGANOCHLOROSILANE
1.2. Relevant identified uses of the sul Use of the substance/mixture	bstance or mixture and uses advised against
Use of the substance/mixture	: 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	0 AM - 5:30 PM EST
info@gelest.com - www.gelest.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
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)	
Hazard pictograms (GHS-03)	
	GHS05
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	: H314 - Causes severe skin burns and eye damage
Precautionary statements (GHS-US)	<ul> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection</li> <li>P260 - Do not breathe vapors</li> </ul>
	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
	P321 - Specific treatment (see first aid instructions on this label)
	P363 - Wash contaminated clothing before reuse
	P405 - Store locked up P501 - Dispose of contents/container to licensed waste disposal facility
2.3. Other hazards	
Other hazards not contributing to the	: Hydrogen chloride may be formed by reaction with water and moisture in air. The US OSHA
classification	PEL (TWA) for hydrogen chloride is 5 ppm.
2.4. Unknown acute toxicity (GHS US)	
No data available	

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SECTION 3: Composition/Information on ingredients				
3.1. Substance				
Substance type : Multi-constituent				
Name : n-OCTADECYLMETHOXYDICHLOROSILANE, tech-95				
CAS No : 211934-50-8				
Name		Product identifier	%	GHS-US classification
n-Octadecylmethoxydichlorosilane		(CAS No) 211934-50-8	90 - 100	Skin Corr. 1B, H314 Eye Dam. 1, H318
Octadecyltrichlorosilane		(CAS No) 112-04-9	0 - 10	Skin Corr. 1B, H314

Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measures	3
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 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 immediate medical advice/attention.
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, 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. Get medical advice/attention if you feel unwell.
4.2. Most important symptoms and e	ffects, 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	: Causes serious eye damage.
Symptoms/injuries after ingestion	: May be harmful if swallowed.
4.3. Indication of any immediate med	lical attention and special treatment needed
No additional information available	
<b>SECTION 5: Firefighting measure</b>	S
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Foam. Carbon dioxide. Dry chemical.
Unsuitable extinguishing media	: Water.
5.2. Special hazards arising from the	substance or mixture
Fire hazard	: Irritating fumes of hydrogen chloride and organic acid vapors may develop when material is exposed to water or open flame.
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 protective equipment, including respiratory protection. Avoid all eye and skin contact and do not breathe vapor and mist.
SECTION 6: Accidental release m	easures

SECH	ON 6: Accidental release mea	sures	
6.1.	Personal precautions, protective equipment and emergency procedures		
6.1.1.	For non-emergency personnel		
Protectiv	ve equipment	: Wear protective equipment as described in Section 8.	
Emerger	ncy procedures	: Evacuate unnecessary personnel.	
6.1.2.	For emergency responders		
Protectiv	re 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".	
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#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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6.3. Methods and material for containment	nt 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.		
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			
Precautions for safe handling	: Avoid all eye and skin contact and do not breathe vapor and mist. Provide good ventilation in		
r recouctions for sale handling	process area to prevent accumulation of vapors.		
Hygiene measures	<ul> <li>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.</li> </ul>		
7.2. Conditions for safe storage, includin	g any incompatibilities		
Storage conditions	: Keep container tightly closed. Store locked up.		
Incompatible materials	: Acids. Alcohols. Oxidizing agent.		
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			
Octadecyltrichlorosilane (112-04-9)			
USA OSHA OSHA PEL (TW	A) (ppm) 5 ppm hydrogen chloride		
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.		
SECTION 9: Physical and chemical p	roperties		
9.1. Information on basic physical and ch			
Physical state	: Liquid		
Appearance	: Liquid.		
Molecular mass	: 383.51 g/mol		
Color	: Clear to straw.		
Odor	: Acrid. Similar to hydrogen chloride.		
Odor threshold	: No data available		
Refractive index	: 1.452		
рН	: No data available		
Relative evaporation rate (butyl acetate=1)	cetate=1) : No data available		
Melting point	: No data available		
Freezing point	: 20 - 22 °C		
Boiling point	: 144 - 147 °C @ 1.5 mm Hg		
Flash point	: > 150 °C		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: No data available		
Vapor pressure	: < 0.1 mm Hg @ 25°C		
Relative vapor density at 20 °C	r density at 20 °C : No data available		
Relative density	: 0.94		
Solubility	: Insoluble in water. Reacts with water.		

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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			
<b>SECTION 10: Stability and reactivity</b>	r		
10.1. Reactivity			
No additional information available			
10.2. Chemical stability			
Stable in sealed containers stored under a dry in	nert atmosphere.		
10.3. Possibility of hazardous reactions			
Reacts with water and moisture in air, liberating	hydrogen chloride.		
10.4. Conditions to avoid			
Heat. Open flame. Sparks.			
10.5. Incompatible materials			
Acids. Alcohols. Oxidizing agent.			
10.6. Hazardous decomposition products	;		
Hydrogen chloride. Methanol. Organic acid vapo	ors.		
<b>SECTION 11: Toxicological informat</b>	ion		
11.1. Information on toxicological effects			
Acute toxicity	: Not classified		
Skin corrosion/irritation	: Causes severe skin burns a	nd eye damage.	
Serious eye damage/irritation	: Causes serious eye damage		
Respiratory or skin sensitization	: Not classified		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: Not classified		
Reproductive toxicity	: Not classified		
Specific target organ toxicity (single exposure)	: Not classified		
Specific target organ toxicity (repeated exposure)	: Not classified		
Aspiration hazard	: Not classified		
Symptoms/injuries after inhalation	: May cause irritation to the re	spiratory tract.	
Symptoms/injuries after skin contact	: Causes (severe) skin burns.		
Symptoms/injuries after eye contact	: Causes serious eye damage		
Symptoms/injuries after ingestion	: May be harmful if swallowed		
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 haza	rdous to the environment.	
Effect on ozone layer	: No additional information av		
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Effect on the global warming	: No known ecological damage caused by this product.
<b>SECTION 13: Disposal consideration</b>	IS
13.1. Waste treatment methods	
Sewage disposal recommendations	: Do not dispose of waste into sewer.
Waste disposal recommendations	<ul> <li>Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.</li> </ul>
Ecology - waste materials	: Avoid release to the environment.
<b>SECTION 14: Transport information</b>	
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.
	(n-OCTADECYLMETHOXYDICHLOROSILANE)
Class (DOT)	8 - Class 8 - Corrosive material 49 CFR 173.136
Hazard labels (DOT)	: 8 - Corrosive
	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 Transport by sea	: No supplementary information available.
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 (49 CFR 173.27)	: Forbidden
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 30 L
SECTION 15: Regulatory information	
15.1. US Federal regulations	
n-OCTADECYLMETHOXYDICHLOROSILANE	. tech-95 (211934-50-8)
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
n-Octadecylmethoxydichlorosilane (211934-	50-8)
Not listed on the United States TSCA (Toxic Su	bstances Control Act) inventory
Octadecyltrichlorosilane (112-04-9)	
Listed on the United States TSCA (Toxic Subst	ances Control Act) inventory
15.2. International regulations	

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Octadecyltrichlorosilane				
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on the Canadian NDSL (Non-Domestic Substances List) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)				
		tory of Existing Commercial Cher		
	NCS (Existing & New Chemic			
Listed on NZIOC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)				
Listed on the Canadian ID	L (Ingredient Disclosure List)	nd Chemical Substances)		
	national Inventory of Chemic			
15.3. US State regulations				
	DICHLOROSILANE, tech-9	5(211934-50-8)		
U.S California - Propositio	•	No		
U.S California - Propositio Toxicity	on 65 - Developmental	No		
U.S California - Propositio Toxicity - Female	on 65 - Reproductive	No		
U.S California - Propositio Toxicity - Male	on 65 - Reproductive	No		
n-Octadecylmethoxydichl	orosilane (211934-50-8)			
U.S California -	U.S California -	U.S California -	U.S California -	Non-significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
No	No	No	No	
Octadecyltrichlorosilane (	(112-04-9)			
U.S California -	U.S California -	U.S California -	U.S California -	Non-significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
No	No	No	No	
		INU	NU	
Octadecyltrichlorosilane (	,			
U.S Massachusetts - Righ	nt To Know List Know Hazardous Substanc			
U.S Pennsylvania - RTK (				
	,			

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

Full tex	t of H-phrases::	
	H314	Causes severe skin burns and eye damage
	H318	Causes serious eye damage

and Development.

#### **HMIS III Rating**

Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 1 Slight 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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