

11-(2-METHOXYETHOXY)UNDECYLTRICHLOROSILANE

Safety Data Sheet SIM6491.5 Date of issue: 11/03/2015 Version: 1.0

SECTION 1: Identification of the s	substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Physical state	: Liquid
Substance name	: 11-(2-METHOXYETHOXY)UNDECYLTRICHLOROSILANE
Product code	: SIM6491.5
Formula	
Synonyms	
Chemical family	: ORGANOCHLOROSILANE
	ubstance 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 safe	ety 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 - www.gelest.com	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 identificatio	n
2.1. Classification of the substance of	
GHS-US classification	
Skin Corr. 1B H314 Eye Dam. 1 H318	
Full text of H-phrases: see section 16	
Turtext of Tr phrases. see section to	
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
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
	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	5)
No data available	

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Substance type Name CAS No	: Mono-constituent : 11-(2-METHOXYETHOXY)UNDECYLTF : 943349-49-3	RICHLOROSILANE	
Name	Product identifier	%	GHS-US classification
11-(2-Methoxyethoxy)undecyltrichloros	silane (CAS No) 943349-49-3	95 - 100	Skin Corr. 1B, H314 Eye Dam. 1, H318

4.1. Description of first aid measures	
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, 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. Get medical advice/attention if you feel unwell.
4.2. 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	: Causes serious eye damage.
Symptoms/injuries after ingestion	: May be harmful if swallowed.
4.3. Indication of any immediate medica	I attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	
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 su	bstance 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 measures			
6.1.	Personal precautions, protective equipment and emergency procedures		
6.1.1.	For non-emergency personnel		
Protective	e equipment	: Wear protective equipment as described in Section 8.	
Emergen	cy procedures	: Evacuate unnecessary personnel.	
6.1.2.	For emergency responders		
Protective	e 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 e	entry to sewers and public waters. Notif	y authorities if liquid enters sewers or public waters.	

6.3.	Methods and material for containment	nt and cleaning up
For cont	ainment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

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Methods for cleaning up	: Clean up any spills as soon as p shovel spills into appropriate con	ossible, using an absorbent material to collect it. Sweep or tainer for disposal.
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		
Precautions for safe handling	: Avoid all eye and skin contact ar process area to prevent accumul	d do not breathe vapor and mist. Provide good ventilation in ation of vapors.
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, include	ling any incompatibilities	
Storage conditions	: Keep container tightly closed. St	pre 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/per	sonal 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. available in the immediate vicinit	Emergency eye wash fountains and safety showers should by of any potential exposure.
Hand protection	: Neoprene or nitrile rubber gloves	
Eye protection		Contact lenses should not be worn.
Skin and body protection	: Wear suitable protective clothing	
Respiratory protection		on may occur from use, respiratory protection equipment is
	recommended. NIOSH-certified or respirator.	combination organic vapor/acid gas (yellow cartridge)
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SECTION 9: Physical and chemical	properties	
9.1. Information on basic physical and	chemical properties	
Physical state	: Liquid	
Appearance	: Clear liquid.	
Molecular mass	: 363.83 g/mol	
Color	: Straw.	
Odor	: Acrid. Similar to hydrogen chlorid	le.
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 : < 0 °C	
Freezing point Boiling point		
Boiling point	: 145 - 149 ℃ @ 1.25 mm Hg : >110 ℃	
Flash point	: No data available	
Auto-ignition temperature 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	: > 1	
Relative density	: 1.07	
Solubility	: Insoluble in water. Reacts with w	ater
Log Pow	: No data available	
Log Kow	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
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Evaluative proportion	. Ne dete aveilable
Explosive properties	: No data available
Oxidizing properties Explosion limits	: No data available : No data available
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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 stored under a dry ine	ert atmosphere.
10.3. Possibility of hazardous reactions	
Reacts with water and moisture in air, liberating h	nydrogen 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. Organic acid vapors.	
SECTION 11: Toxicological informati	on
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes severe skin burns and 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	: Not classified
exposure)	
Aspiration hazard	: Not classified
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.
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 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.
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SECTION 13: Disposal consideration	
13.1. Waste treatment methods	. Do not dianage of waste into cover
Sewage disposal recommendations Waste disposal recommendations	 Do not dispose of waste into sewer. Dispose in a safe manner in accordance with local/national regulations. Dispose of
Waste disposal recommendations	contents/container to licensed waste disposal facility.
Ecology - waste materials	: Avoid release to the environment.
OFOTION 44. Treasure attinformation	
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.
	(11-(2-METHOXYETHOXY)UNDECYLTRICHLOROSILANE)
Transport hazard class(es) (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	
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	: 30 L
CFR 175.75)	
SECTION 15: Regulatory information	
15.1. US Federal regulations	
11-(2-METHOXYETHOXY)UNDECYLTRICHLO	ROSILANE (943349-49-3)
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.
11-(2-Methoxyethoxy)undecyltrichlorosilane	943349-49-3)
Not listed on the United States TSCA (Toxic Sub	
15.2. International regulations	
No additional information available	
15.3. US State regulations	
11-(2-METHOXYETHOXY)UNDECYLTRICHLOR	OSII ANF(943349-49-3)
U.S California - Proposition 65 - Carcinogens Li	
U.S California - Proposition 65 - Developmental	No
Toxicity	
U.S California - Proposition 65 - Reproductive Toxicity - Female	No

Toxicity - Male

Toxicity - Female

U.S. - California - Proposition 65 - Reproductive

No

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11-(2-Methoxyethoxy)undecyltrichlorosilane (943349-49-3)				
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::

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

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.	
Date of issue: 11/03/2015 Version: 1.0	
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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