

11-(SUCCINIMIDYLOXY)UNDECYLDIMETHYLETHOXYSILANE, 95%

Safety Data Sheet SIS6995.0 Date of issue: 11/02/2015 Version: 1.0

SECTION 1: Identification of the su	bstance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Physical state	: Liquid
Substance name	: 11-(SUCCINIMIDYLOXY)UNDECYLDIMETHYLETHOXYSILANE, 95%
Product code	: SIS6995.0
Formula	: C19H37NO4Si
Synonyms	: 11-(HYDROXYSUCCINIMIDE)UNDECANOYLDIMETHYLETHOXYSILANE ESTER
Chemical family	: ORGANOETHOXYSILANE
1.2. Relevant identified uses of the sub	ostance 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 safety	y data sheet
GELEST, INC.	
11 East Steel Road Morrisville, PA 19067	
USA	
T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 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: Hazards identification	
2.1. Classification of the substance or	mixture
GHS-US classification	
Skin Irrit. 2 H315	
Eye Irrit. 2A H319	
STOT SE 3 H335	
Full text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	
	GHS07
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H315 - Causes skin irritation
· · · · · ·	H319 - Causes serious eye irritation
	H335 - May cause respiratory irritation
Precautionary statements (GHS-US)	 P280 - Wear protective gloves/protective clothing/eye protection/face protection P312 - Call a doctor if you feel unwell
	P261 - Avoid breathing vapors
	P264 - Wash hands thoroughly after handling
	P271 - Use only outdoors or in a well-ventilated area P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
	P302+P352 - If on skin: Wash with plenty of soap and water
	P332+P313 - If skin irritation occurs: Get medical advice/attention
	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
	P337+P313 - If eye irritation persists: Get medical advice/attention
	P321 - Specific treatment (see first aid instructions on this label)
	P362+P364 - Take off contaminated clothing and wash it before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed
	P405+P255 - Store in a weil-ventilated place. Reep container tightig closed P405 - Store locked up
	P501 - Dispose of contents/container to licensed waste disposal facility.

2.3. Other hazards			
Other hazards not contributing to the classification	Additional ethanol may be formed by reaction of this compound is ethanol. Overexposure to ingestion may have a narcotic effect (headacl to acetaldehyde and acetic acid which in large depression and death due to respiratory arres ppm. This product contains ethanol which is o beverages.	ethanol by ski he, nausea, dro e quantities res st. The US OSH	n absorption, inhalation or wsiness). Ethanol is metabolized ult in metabolic acidosis, CNS IA PEL (TWA) for ethanol is 1000
2.4. Unknown acute toxicity (GHS US)			
No data available			
SECTION 3: Composition/Informat	ion on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
Name	: 11-(SUCCINIMIDYLOXY)UNDECYLDIMETH	YLETHOXYSIL	ANE, 95%
CAS No	: 1274903-20-6		
Name	Product identifier	%	GHS-US classification
11-(Succinimidyloxy)undecyldimethylethoxysilane	(CAS No) 1274903-20-6	90 - 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
3.2. Mixture			
Not applicable			
SECTION 4: First aid measures			
4.1. Description of first aid measures			
First-aid measures general	: Remove contaminated clothing and shoes. In		
	medical advice immediately (show the label w available show packaging or label.		
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in unwell, seek medical advice.	a position corr	fortable for breathing. If you feel
First-aid measures after skin contact	: Wash with plenty of soap and water. Get med		
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water present and easy to do. Continue rinsing. Get		
First-aid measures after ingestion	: Never give anything by mouth to an unconsci	ous person. Ge	et medical advice/attention.
4.2. Most important symptoms and ef	fects, both acute and delayed		
Symptoms/injuries after inhalation	: May cause respiratory irritation.		
Symptoms/injuries after skin contact	: Causes skin irritation.		
Symptoms/injuries after eye contact	: Causes serious eye irritation.		
Symptoms/injuries after ingestion Chronic symptoms	May be harmful if swallowed.On contact with water this compound liberate	s othanol which	is known to have a chronic effect
Chronic symptoms	on the central nervous system.	S ethanor which	r is known to have a chionic effect
4.3. Indication of any immediate medi	cal attention and special treatment needed		
NOTE TO PHYSICIAN: This product reacts w	ith water in the acid contents of the stomach to form	ethanol.	
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Water spray. Foam. Carbon dioxide. Dry cher	mical.	
Unsuitable extinguishing media	: Do not use straight streams.		
5.2. Special hazards arising from the	substance or mixture		
Fire hazard	: Irritating fumes and organic acid vapors may temperatures or open flame.	develop when r	material is exposed to elevated
5.3. Advice for firefighters			
Firefighting instructions	: Exercise caution when fighting any chemical		
Protection during firefighting	: Do not enter fire area without proper protectiv Avoid all eye and skin contact and do not brea		
SECTION 6: Accidental release me	easures		
6.1. Personal precautions, protective	equipment and emergency procedures		
6.1.1. For non-emergency personnel			
Protective equipment	: Wear protective equipment as described in S	ection 8.	
Emergency procedures	: Evacuate unnecessary personnel.		
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6.1.2. For emergency responders	
Protective 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 entry to sewers and public waters. Notify	authorities if liquid enters sewers or public waters.
6.3. Methods and material for containme	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	protection.
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 recautorio for baro narialing	process area to prevent accumulation 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, including	g any incompatibilities
Storage conditions	: Keep container tightly closed. Store locked up.
Incompatible materials	: Acids. Alcohols. Moisture. Oxidizing agent. Peroxides. Water.
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	onal 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 combination organic vapor - amine gas (brown cartridge) respirator.
SECTION 9: Physical and chemical p	roperties
9.1. Information on basic physical and cl	nemical properties
Physical state	: Liquid
Appearance	: Clear liquid.
Molecular mass	: 371.59 g/mol
Color	: Straw.
Odor	: Amine. Ammonia-like.
Odor threshold	: No data available
Refractive index	: No data available
рН	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: 28 °C
Boiling point	: 195 - 200 °C @ 0.6 mm Hg
Flash point	: > 165 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available

Flormachility (aplid app)			
Flammability (solid, gas)	: No data available		
Vapor pressure	: <1 mm Hg @ 20°C : >1		
Relative vapor density at 20 °C			
Relative density	: No data available		
Solubility	: Reacts with water.		
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			
SECTION 10: Stability and reactivity			
10.1. Reactivity			
No additional information available			
10.2. Chemical stability			
Stable in sealed containers.			
10.3. Possibility of hazardous reactions	athanal		
Reacts with water and moisture in air, liberating			
10.4. Conditions to avoid			
Heat. Open flame. Sparks.			
10.5. Incompatible materials			
Acids. Alcohols. Moisture. Oxidizing agent. Pero	xide <mark>s. Wate</mark> r.		
10.6. Hazardous decomposition products			
Ethanol. Organic amine vapors.			
SECTION 11: Toxicological informat	ion		
11.1. Information on toxicological effects			
Acute toxicity	: Not classified		
Skin corrosion/irritation	: Causes skin irritation.		
Serious eye damage/irritation	: Causes serious eye irritation.		
Respiratory or skin sensitization	: Not classified		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: Not classified		
Reproductive toxicity	: Not classified		
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.		
Specific target organ toxicity (repeated exposure)	: Not classified		
Aspiration hazard	: Not classified		
Potential Adverse human health effects and	: This compound liberates ethanol on contact with moisture. Material generates ethanol on		
symptoms	contact with water or moisture in skin, eyes and mucous membranes and has an irritating, dehydrating effect on overexposed tissue.		
Symptoms/injuries after inhelation			
Symptoms/injuries after inhalation Symptoms/injuries after skin contact	: May cause respiratory irritation. : Causes skin irritation.		
Symptoms/injuries after eye contact	: Causes serious eye irritation.		
Symptoms/injuries after ingestion	: May be harmful if swallowed.		
Chronic symptoms	: On contact with water this compound liberates ethanol which is known to have a chronic effect on the central nervous system.		
Reason for classification	: Expert judgment		

SECTIO	DN 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		
		s substance may be hazardous to the environment.
Effect on ozone layer		additional information available
Effect on the global warming	: NO	known ecological damage caused by this product.
SECTION 13: Disposal considerations	5	
13.1. Waste treatment methods		
Sewage disposal recommendations	: Do	not dispose of waste into sewer.
Waste disposal recommendations		be incinerated. Dispose in a safe manner in accordance with local/national regulations.
For the second second size		bose of contents/container to licensed waste disposal facility.
Ecology - waste materials	: Avc	id release to the environment.
SECTION 14: Transport information		
14.1. UN number		
Not regulated for transport.		
14.2. UN proper shipping name		
Not applicable		
14.3. Additional information		
Other information	: No	supplementary information available.
Transport by sea		
No additional information available		
Air transport		
No additional information available		
SECTION 15: Regulatory information		
15.1. US Federal regulations		
11-(SUCCINIMIDYLOXY)UNDECYLDIMETHYL	-	
TSCA Exemption/Exclusion		JTION: This material is supplied for research and development purposes subject to the D exemption under TSCA, 40 CFR 720.36, and must meet the requirements of the
	exe	mption, including supervision by a "technically qualified individual" as defined by 40 CFR
		.3(ee). The use of this material for "commercial purposes" as defined by 40 CFR 720.3(r)
		ot permitted in the United States.
11-(Succinimidyloxy)undecyldimethylethoxys		
Not listed on the United States TSCA (Toxic Sub	stance	es Control Act) Inventory
15.2. International regulations No additional information available		
15.3. US State regulations		
11-(SUCCINIMIDYLOXY)UNDECYLDIMETHYLE		
U.S California - Proposition 65 - Carcinogens Lis	5(No
U.S California - Proposition 65 - Developmental		No

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		
11-(Succinimidyloxy)undecyldimethylethoxysilane (1274903-20-6)				
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)

11-(SUCCINIMIDYLOXY)UNDECYLDIMETHYLETHOXYSILANE, 95%

Safety Data Sheet

11-(Succinimidyloxy)undec	yldimethylethoxysilane (127	/4903-20-6)		
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:: Section 44

Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

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: 11/02/2015 Version: 1.0	
SDS US (GHS HazCom 2012) - Custom	
According to Federal Register / Vol. 77, No. 58 / Monday	y, March 26, 2012 / Rules and Regulations

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