

Safety Data Sheet SIB1926.0 Date of issue: 07/17/2015 Version: 1.0

SECTION 1: Identification of the sub	bstance/mixture and of the company/undertaking
1.1. Product identifier	ostance/mixture and of the company/undertaking
Product form	: Substance
Physical state	: Liquid
Substance name	: 3-BUTENYLMETHYLDICHLOROSILANE
Product code	: SIB1926.0
Formula	: C5H10Cl2Si
Synonyms	: (DICHLOROMETHYLSILYL)BUTENE
Chemical family	: ORGANOCHLOROSILANE
1.2. Relevant identified uses of the sub- Use of the substance/mixture	stance 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	r data sheet
GELEST, INC.	
11 East Steel Road Morrisville, PA 19067 USA	
T 215-547-1015 - F 215-547-2484 - (M-F): 8:00	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 r	mixture
Classification (GHS-US)	
Flam. Liq. 3 H226 Skin Corr. 1B H314	
Eye Dam. 1 H318	
Full text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	
Signal word (CLIS LIS)	GHS02 GHS05
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	: H226 - Flammable liquid and vapor H314 - Causes severe skin burns and eye damage
Dracoutionary atotamenta (CLIS LIS)	H318 - Causes serious eye damage
Precautionary statements (GHS-US)	<ul> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection P260 - Do not breathe vapors</li> </ul>
	P264 - Wash hands thoroughly after handling
	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 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 P370+P378 - In case of fire: Use water spray, foam, carbon dioxide, dry chemical to extinguish
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P403+P235 - Keep in a cool place

P405 - Store locked up P501 - Dispose of contents/container to licensed waste disposal facility.

2.3.	Other hazards			
No add	litional information available			
2.4.	Unknown acute toxicity (GHS US)			
No data	a available			
SECT	ION 3: Composition/informatior	on ingredients		
3.1.	Substance			
Substa	nce type	: Mono-constituent		
Name		: 3-BUTENYLMETHYLDICHLOROSILANI	E	
CAS N	0	: 15983-86-5		
Name	)	Product identifier	%	Classification (GHS-US)
3-Bute	nylmethyldichlorosilane	(CAS No) 15983-86-5	> 97	Flam. Liq. 3, H226 Skin Corr. 1B, H314 Eye Dam. 1, H318
Hydro	chloric acid	(CAS No) 7647-01-0		Skin Corr. 1A, H314 Eye Dam. 1, H318

#### 3.2. Mixture

Not applicable

and the second sec	
SECTION 4: First aid measures	
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, i 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	ects, both acute and delayed
Symptoms/injuries	: Causes severe skin burns and eye damage.
Symptoms/injuries after inhalation	: May cause irritation to the respiratory tract. Overexposure may cause: Cough. Headache. Nausea.
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 medic	al attention and special treatment needed
No additional information available	
<b>SECTION 5: Firefighting measures</b>	
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 s	ubstance or mixture
Fire hazard	: Flammable liquid and vapor. Irritating fumes of hydrochloric acid and organic acid vapors may develop when material is exposed to water or open flame.
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray to cool exposed surfaces. Exercise caution when fighting any chemical fire.
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 me	easures
6.1. Personal precautions, protective	equipment and emergency procedures
General measures	: Remove ignition sources. Use special care to avoid static electric charges.

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6.1.1. For non-em	ergency personnel		
Protective equipment		: Wear protective equipment	t as described in Section 8.
Emergency procedure	S	: Evacuate unnecessary pe	rsonnel.
6.1.2. For emerge	ency responders		
Protective equipment			roper protection. Do not attempt to take action without suitable further information refer to section 8: "Exposure controls/personal
6.2. Environme	ntal precautions		
Prevent entry to sewe	rs and public waters. Notify	authorities if liquid enters se	vers or public waters.
6.3. Methods ar	nd material for containme	nt and cleaning up	
Methods for cleaning	dr		n as possible, using an absorbent material to collect it. Sweep or ate container for disposal. Use only non-sparking tools.
6.4. Reference t	o other sections		
See Heading 8. Expos	sure controls and personal	protection.	
SECTION 7: Han	dling and storage		
7.1. Precaution	s for safe handling		
Precautions for safe h	andling	process area to prevent a	tact and do not breathe vapor and mist. Provide good ventilation in ccumulation of vapors. Take precautionary measures against station st be properly grounded before beginning transfer. Use only non-
Hygiene measures			posed areas with mild soap and water before eating, drinking or g work. Wash contaminated clothing before reuse.
7.2. Conditions	for safe storage, includin	ng any incompatibilities	
Technical measures		electricity should be follow	
Storage conditions		: Keep container tightly close	
Incompatible materials	;	: Alcohols. Amines. Oxidizi	
Storage area		: Store in a well-ventilated	place. Store away from heat.
7.3. Specific en			
No additional informat			
<b>SECTION 8: Exp</b>	ocura controle/nore/	a mal mucha atlam	
oconon o. cxp	osure controis/perso	bhai protection	
8.1. Control par		onal protection	
8.1. Control par Hydrochloric acid (	ameters		
8.1. Control par Hydrochloric acid ( USA ACGIH	7647-01-0) ACGIH Ceiling	(ppm)	2 ppm
8.1. Control par Hydrochloric acid (	ameters 7647-01-0)	(ppm)	2 ppm 7 mg/m <sup>3</sup>
8.1. Control par Hydrochloric acid ( USA ACGIH	7647-01-0) ACGIH Ceiling	(ppm) eiling) (mg/m³)	
8.1. Control par Hydrochloric acid ( USA ACGIH USA NIOSH	ACGIH Ceiling NIOSH REL (ce	(ppm) eiling) (mg/m³) eiling) (ppm)	7 mg/m <sup>3</sup>
8.1. Control par Hydrochloric acid ( USA ACGIH USA NIOSH USA NIOSH	ACGIH Ceiling ACGIH REL (ce NIOSH REL (ce	(ppm) eiling) (mg/m <sup>3</sup> ) eiling) (ppm) eiling) (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup> 5 ppm
8.1. Control par Hydrochloric acid ( USA ACGIH USA NIOSH USA NIOSH USA OSHA	ACGIH Ceiling NIOSH REL (ce NIOSH REL (ce OSHA PEL (Ce	(ppm) eiling) (mg/m <sup>3</sup> ) eiling) (ppm) eiling) (mg/m <sup>3</sup> ) eiling) (ppm)	7 mg/m <sup>3</sup> 5 ppm 7 mg/m <sup>3</sup>
8.1. Control par Hydrochloric acid ( USA ACGIH USA NIOSH USA NIOSH USA OSHA USA OSHA	ACGIH Ceiling NIOSH REL (ce NIOSH REL (ce OSHA PEL (Ce OSHA PEL (Ce US IDLH (ppm)	(ppm) eiling) (mg/m <sup>3</sup> ) eiling) (ppm) eiling) (mg/m <sup>3</sup> ) eiling) (ppm)	7 mg/m³         5 ppm         7 mg/m³         5 ppm         5 ppm
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<ul> <li>8.1. Control par</li> <li>Hydrochloric acid (</li> <li>USA ACGIH</li> <li>USA NIOSH</li> <li>USA NIOSH</li> <li>USA OSHA</li> <li>USA OSHA</li> <li>USA IDLH</li> <li>8.2. Exposure of Appropriate engineering</li> <li>Personal protective economic protective e</li></ul>	ACGIH Ceiling NIOSH REL (ce NIOSH REL (ce OSHA PEL (Ce OSHA PEL (Ce US IDLH (ppm)	(ppm) eiling) (mg/m <sup>3</sup> ) eiling) (ppm) eiling) (mg/m <sup>3</sup> ) eiling) (ppm) : Provide local exhaust or g : Avoid all unnecessary exp	7 mg/m³         5 ppm         7 mg/m³         5 ppm         50 ppm         eneral room ventilation.         posure. Emergency eye wash fountains and safety showers should vicinity of any potential exposure.
<ul> <li>8.1. Control par</li> <li>Hydrochloric acid (</li> <li>USA ACGIH</li> <li>USA NIOSH</li> <li>USA NIOSH</li> <li>USA OSHA</li> <li>USA OSHA</li> <li>USA IDLH</li> <li>8.2. Exposure of Appropriate engineering</li> <li>Personal protective economic protective e</li></ul>	ACGIH Ceiling NIOSH REL (ce NIOSH REL (ce OSHA PEL (Ce OSHA PEL (Ce US IDLH (ppm)	(ppm) eiling) (mg/m <sup>3</sup> ) eiling) (ppm) eiling) (mg/m <sup>3</sup> ) eiling) (ppm) : Provide local exhaust or g : Avoid all unnecessary exp available in the immediate : Neoprene or nitrile rubber	7 mg/m³         5 ppm         7 mg/m³         5 ppm         50 ppm         eneral room ventilation.         posure. Emergency eye wash fountains and safety showers should vicinity of any potential exposure.
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Color	: Straw.
Odor	: Acrid. Similar to hydrogen chloride.
Odor threshold	: No data available
Refractive index	: 1.4495
рН	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: <0 °C
Boiling point	: 143 - 145 °C
Flash point	: > 25 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable liquid and vapor
Vapor pressure	: No data available
Relative vapor density at 20 °C	: >1
Relative density	: 1.05
VOC content	: 100 %
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	
<b>SECTION 10: Stability and reactivity</b>	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable in sealed containers stored under a dry ind	ert atmosphere.
10.3. Possibility of hazardous reactions	
Reacts with water and moisture in air, liberating h	
Reacts with water and moisture in all, interating i	nydrogen chloride.
-	nydrogen chloride.
10.4. Conditions to avoid	nydrogen chloride.
10.4.Conditions to avoidHeat. Open flame. Sparks.	nydrogen chloride.
10.4.Conditions to avoidHeat. Open flame. Sparks.10.5.Incompatible materials	nydrogen chloride.
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<ul> <li>10.4. Conditions to avoid</li> <li>Heat. Open flame. Sparks.</li> <li>10.5. Incompatible materials</li> <li>Alcohols. Amines. Oxidizing agent.</li> <li>10.6. Hazardous decomposition products</li> <li>Hydrogen chloride. Organic acid vapors.</li> <li>SECTION 11: Toxicological information</li> <li>11.1. Information on toxicological effects</li> <li>Acute toxicity</li> <li>Hydrochloric acid (7647-01-0)</li> <li>LD50 oral rat</li> </ul>	on : Not classified 238 - 277 mg/kg
<ul> <li>10.4. Conditions to avoid</li> <li>Heat. Open flame. Sparks.</li> <li>10.5. Incompatible materials</li> <li>Alcohols. Amines. Oxidizing agent.</li> <li>10.6. Hazardous decomposition products</li> <li>Hydrogen chloride. Organic acid vapors.</li> <li>SECTION 11: Toxicological information</li> <li>11.1. Information on toxicological effects</li> <li>Acute toxicity</li> <li>Hydrochloric acid (7647-01-0)</li> <li>LD50 oral rat</li> <li>LD50 dermal rabbit</li> </ul>	on           : Not classified           238 - 277 mg/kg           > 5010 mg/kg
<ul> <li>10.4. Conditions to avoid</li> <li>Heat. Open flame. Sparks.</li> <li>10.5. Incompatible materials</li> <li>Alcohols. Amines. Oxidizing agent.</li> <li>10.6. Hazardous decomposition products</li> <li>Hydrogen chloride. Organic acid vapors.</li> <li>SECTION 11: Toxicological information</li> <li>11.1. Information on toxicological effects</li> <li>Acute toxicity</li> <li>Hydrochloric acid (7647-01-0)</li> <li>LD50 oral rat</li> <li>LD50 dermal rabbit</li> <li>LC50 inhalation rat (mg/l)</li> </ul>	on           : Not classified           238 - 277 mg/kg           > 5010 mg/kg           1.68 mg/l (Exposure time: 1 h)
<ul> <li>10.4. Conditions to avoid</li> <li>Heat. Open flame. Sparks.</li> <li>10.5. Incompatible materials</li> <li>Alcohols. Amines. Oxidizing agent.</li> <li>10.6. Hazardous decomposition products</li> <li>Hydrogen chloride. Organic acid vapors.</li> <li>SECTION 11: Toxicological information on toxicological effects</li> <li>Acute toxicity</li> <li>Hydrochloric acid (7647-01-0)</li> <li>LD50 oral rat</li> <li>LD50 dermal rabbit</li> <li>LC50 inhalation rat (mg/l)</li> <li>ATE US (oral)</li> </ul>	on           : Not classified           238 - 277 mg/kg           > 5010 mg/kg           1.68 mg/l (Exposure time: 1 h)           238.000 mg/kg body weight
<ul> <li>10.4. Conditions to avoid</li> <li>Heat. Open flame. Sparks.</li> <li>10.5. Incompatible materials</li> <li>Alcohols. Amines. Oxidizing agent.</li> <li>10.6. Hazardous decomposition products</li> <li>Hydrogen chloride. Organic acid vapors.</li> <li>SECTION 11: Toxicological information on toxicological effects</li> <li>Acute toxicity</li> <li>Hydrochloric acid (7647-01-0)</li> <li>LD50 oral rat</li> <li>LD50 dermal rabbit</li> <li>LC50 inhalation rat (mg/l)</li> <li>ATE US (oral)</li> <li>ATE US (vapors)</li> </ul>	ON         : Not classified         238 - 277 mg/kg         > 5010 mg/kg         1.68 mg/l (Exposure time: 1 h)         238.000 mg/kg body weight         1.680 mg/l/4h
<ul> <li>10.4. Conditions to avoid</li> <li>Heat. Open flame. Sparks.</li> <li>10.5. Incompatible materials</li> <li>Alcohols. Amines. Oxidizing agent.</li> <li>10.6. Hazardous decomposition products</li> <li>Hydrogen chloride. Organic acid vapors.</li> <li>SECTION 11: Toxicological information on toxicological effects</li> <li>Acute toxicity</li> <li>Hydrochloric acid (7647-01-0)</li> <li>LD50 oral rat</li> <li>LD50 dermal rabbit</li> <li>LC50 inhalation rat (mg/l)</li> <li>ATE US (oral)</li> </ul>	on           : Not classified           238 - 277 mg/kg           > 5010 mg/kg           1.68 mg/l (Exposure time: 1 h)           238.000 mg/kg body weight

- Serious eye damage/irritation : Causes serious eye damage.
- Respiratory or skin sensitization : Not classified
  - : Not classified

Germ cell mutagenicity

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Carcinogenicity	: Not classified
Hydrochloric acid (7647-01-0)	
IARC group	3 - Not classifiable
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 respiratory tract. Overexposure may cause: Cough. Headache. Nausea.
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.
SECTION 13: Disposal consideration	s
13.1. Waste treatment methods	
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.
<b>SECTION 14: Transport information</b>	
SECTION 14: Transport information 14.1. UN number	
	: 2986
14.1. UN number	: 2986 UN2986
14.1. UN number UN-No.(DOT)	
14.1.UN numberUN-No.(DOT)DOT NA no.	
14.1.UN numberUN-No.(DOT)DOT NA no.14.2.UN proper shipping name	UN2986
14.1.UN numberUN-No.(DOT)DOT NA no.14.2.UN proper shipping name	UN2986 : Chlorosilanes, corrosive, flammable, n.o.s.
14.1.UN numberUN-No.(DOT)DOT NA no.14.2.UN proper shipping nameProper Shipping Name (DOT)Department of Transportation (DOT) Hazard	UN2986 : Chlorosilanes, corrosive, flammable, n.o.s. (3-BUTENYLMETHYLDICHLOROSILANE)
14.1.UN numberUN-No.(DOT)DOT NA no.14.2.UN proper shipping nameProper Shipping Name (DOT)Department of Transportation (DOT) HazardClasses	UN2986 : Chlorosilanes, corrosive, flammable, n.o.s. (3-BUTENYLMETHYLDICHLOROSILANE) : 8 - Class 8 - Corrosive material 49 CFR 173.136 : 8 - Corrosive
14.1.UN numberUN-No.(DOT)DOT NA no.14.2.UN proper shipping nameProper Shipping Name (DOT)Department of Transportation (DOT) HazardClassesHazard labels (DOT)	UN2986 : Chlorosilanes, corrosive, flammable, n.o.s. (3-BUTENYLMETHYLDICHLOROSILANE) : 8 - Class 8 - Corrosive material 49 CFR 173.136 : 8 - Corrosive
14.1.UN numberUN-No.(DOT)DOT NA no.14.2.UN proper shipping nameProper Shipping Name (DOT)Department of Transportation (DOT) Hazard ClassesHazard labels (DOT)Packing group (DOT)	UN2986 : Chlorosilanes, corrosive, flammable, n.o.s. (3-BUTENYLMETHYLDICHLOROSILANE) : 8 - Class 8 - Corrosive material 49 CFR 173.136 : 8 - Corrosive 3 - Flammable liquid * *********************************
14.1.UN numberUN-No.(DOT)DOT NA no.14.2.UN proper shipping nameProper Shipping Name (DOT)Department of Transportation (DOT) Hazard ClassesHazard labels (DOT)Packing group (DOT)DOT Packaging Exceptions (49 CFR 173.xxx)	UN2986 : Chlorosilanes, corrosive, flammable, n.o.s. (3-BUTENYLMETHYLDICHLOROSILANE) : 8 - Class 8 - Corrosive material 49 CFR 173.136 : 8 - Corrosive 3 - Flammable liquid $\sqrt[3]{9}$
14.1.UN numberUN-No.(DOT)DOT NA no.14.2.UN proper shipping nameProper Shipping Name (DOT)Department of Transportation (DOT) Hazard ClassesHazard labels (DOT)Packing group (DOT)	UN2986 : Chlorosilanes, corrosive, flammable, n.o.s. (3-BUTENYLMETHYLDICHLOROSILANE) : 8 - Class 8 - Corrosive material 49 CFR 173.136 : 8 - Corrosive 3 - Flammable liquid $v = v^{3}$ : II - Medium Danger : None
14.1.       UN number         UN-No.(DOT)       DOT NA no.         14.2.       UN proper shipping name         Proper Shipping Name (DOT)         Department of Transportation (DOT) Hazard Classes         Hazard labels (DOT)         Packing group (DOT)         DOT Packaging Exceptions (49 CFR 173.xxx)         DOT Packaging Non Bulk (49 CFR 173.xxx)	UN2986 : Chlorosilanes, corrosive, flammable, n.o.s. (3-BUTENYLMETHYLDICHLOROSILANE) : 8 - Class 8 - Corrosive material 49 CFR 173.136 : 8 - Corrosive 3 - Flammable liquid • II - Medium Danger : None : 206
14.1.UN numberUN-No.(DOT)DOT NA no.14.2.UN proper shipping nameProper Shipping Name (DOT)Department of Transportation (DOT) Hazard ClassesHazard labels (DOT)Packing group (DOT)DOT Packaging Exceptions (49 CFR 173.xxx)DOT Packaging Bulk (49 CFR 173.xxx)	UN2986 : Chlorosilanes, corrosive, flammable, n.o.s. (3-BUTENYLMETHYLDICHLOROSILANE) : 8 - Class 8 - Corrosive material 49 CFR 173.136 : 8 - Corrosive 3 - Flammable liquid • II - Medium Danger : None : 206

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Transport by sea DOT Vessel Stowage Location DOT Vessel Stowage Other		C - The material mu 40 - Stow "clear of l		deck only" on a cargo vessel a	nd on a passenger vessel.
Air transport DOT Quantity Limitations Pas (49 CFR 173.27)					
DOT Quantity Limitations Car CFR 175.75)	rgo aircraft only (49 : 3	30 L			
SECTION 15: Regulate	ory information				
15.1. US Federal regulation	S				
Hydrochloric acid (7647-0	1-0)				
Listed on the United States Listed on the United States Listed on United States SAR	SARA Section 302	es Control Act) inve	ntory		
SARA Section 302 Thresho Quantity (TPQ)	Id Planning	500 (gas only)			
SARA Section 313 - Emissi		1.0 % (acid aerosol particle size)	s including mists,	vapors, gas, fog, and other airb	oorne forms of any
3-Butenylmethyldichloros	· ·	,			
Not listed on the United Sta		nces Control Act) i	nventory		
15.2. International regulation	ons				
3-BUTENYLMETHYLDICH	LOROSILANE (15983-8	36-5)			
	s of the exemption, inclu	ding supervision by	a "technically qua	the R&D exemption under TSC alified individual" as defined by nitted in the United States.	
Hydrochloric acid (7647-0	1-0)				
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on the Canadian DSL (Domestic Sustances List) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals and Chemical Substances) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Japanese Poisonous and Deleterious Substances Control Law Listed on the Canadian IDL (Ingredient Disclosure List) Listed on INSQ (Mexican national Inventory of Chemical Substances)					
Listed on Turkish inventory 3-ButenyImethyldichloros					
15.3. US State regulations					
3-BUTENYLMETHYLDICHL	-				
U.S California - Proposition		No No			
U.S California - Proposition 65 - Developmental Toxicity					
U.S California - Proposition 65 - Reproductive Toxicity - Female		No	No		
U.S California - Proposition 65 - Reproductive Toxicity - Male		No	No		
Hydrochloric acid (7647-01-	-0)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicit	U.S Califo Proposition Reproductiv Female	65 -	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
No	No	No		No	
3-Butenylmethyldichlorosil	ane (15983-86-5)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicit	U.S Califo Proposition Reproductiv Female	65 -	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
07/17/2015	17	I (English US)		SDS ID: SIB1926.0	6/7

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3-Butenylmethyldichlorosi	lane (15983-86-5)			
No	No	No	No	

# SECTION 16: Other information Abbreviations and acronyms : Abbreviations: ND: No

: 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
Flam. Liq. 3	Flammable liquids Category 3
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Corr. 1B	Skin corrosion/irritation Category 1B
H226	Flammable liquid and vapor
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage

#### **HMIS III Rating**

5	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 2 Moderate Hazard
Physical	: <mark>1 Sligh</mark> t Hazard
Prepared by safety and environmental affairs.	
Date of issue: 07/17/2015 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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