

Safety Data Sheet SIA0325.0 Date of issue: 02/03/2015 Version: 1.0

<b>SECTION 1: Identification of the su</b>	bstance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Physical state	: Solid
Substance name	: ADAMANTYLETHYLTRICHLOROSILANE
Product code	: SIA0325.0
Formula	: C12H19Cl3Si
Synonyms	: TRICHLOROSILYLETHYLADAMANTANE; TRICHLORO(2-
Cynonyme	TRICYCLO[3.3.1.13,7]DECYLETHYL)SILANE
Chemical family	: ORGANOCHLOROSILANE
1.2. Relevant identified uses of the sub	stance 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 safety	/ 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	) AM - 5:30 PM EST
1.4. Emergency telephone number	· CHEMTREC: 1 200 424 0200 (HCA): 14 702 527 2007 (International)
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
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)	CHS05
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	<ul> <li>H314 - Causes severe skin burns and eye damage</li> <li>H318 - Causes serious eye damage</li> </ul>
Precautionary statements (GHS-US)	<ul> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection P260 - Do not breathe dust 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.</li> </ul>
2.3. Other hazards	
No additional information available	
2.4. Unknown acute toxicity (GHS-US)	

Safety Data Sheet

SECTION 3: Composition/information on ingredients				
3.1. Substance				
Substance type Name CAS No EC no			NE	
Name		Product identifier	%	Classification (GHS-US)
Adamantylethyltrichlorosilane		(CAS No) 37843-11-1	> 95	Skin Corr. 1B, H314 Eye Dam. 1, H318
Hydrogen chloride		(CAS No) 7647-01-0		Skin Corr. 1A, H314 Eye Dam. 1, H318

### 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 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. Get medical advice/attention.
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, it 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.
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. Overexposure may cause: Coughing. 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.
<b>4.3.</b> Indication of any immediate med No additional information available	ical attention and special treatment needed
SECTION 5: Firefighting measure	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	: 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 contact with skin and eyes. Do not breathe dust.
SECTION 6: Accidental release m	easures
6.1. Personal precautions, protective	equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
6.2. Environmental precautions	
Prevent entry to sewers and public waters. N	otify authorities if liquid enters sewers or public waters.
6.3. Methods and material for contain	nment and cleaning up
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.

Safety Data Sheet

See Heading 8. Exposure cor				
<b>-</b> .	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 contact with skin and eyes. Do not breathe dust. Provide local exhaust or general room				
, rocalitorio for care namaling	ventilation to minimize			
Hygiene measures				
7.2. Conditions for safe	e storage, including any incompatibilities			
Storage conditions	: Keep container tightly c	losed.		
Incompatible materials	: Acids. Alcohols. Oxidizi	ng agent.		
Storage area	: Store in a well-ventilate	d place. Store away from heat.		
7.3. Specific end use(s	3)			
No additional information avai	ilable			
<b>SECTION 8: Exposure</b>	controls/personal protection			
8.1. Control parameter	S			
Hydrogen chloride (7647-0	01-0)			
USA ACGIH	ACGIH Ceiling (ppm)	2 ppm		
USA NIOSH	NIOSH REL (ceiling) (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup>		
USA NIOSH	NIOSH REL (ceiling) (ppm)	5 ppm		
USA OSHA	OSHA PEL (Ceiling) (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup>		
USA OSHA	OSHA PEL (Ceiling) (ppm)	5 ppm		
USA IDLH	US IDLH (ppm)	50 ppm		
8.2. Exposure controls		50 ppm		
ye protection       : Chemical goggles or face shield. Contact lenses should not be worn.         kin and body protection       : Wear suitable protective clothing.				
Hand protection Eye protection Skin and body protection Respiratory protection	Chemical goggles or fail     Wear suitable protective	ce shield. Contact lenses should not be worn. e clothing.		
Eye protection Skin and body protection Respiratory protection	Chemical goggles or fail     Wear suitable protective     NIOSH-certified dust ar	ce shield. Contact lenses should not be worn. e clothing.		
Eye protection Skin and body protection Respiratory protection SECTION 9: Physical a	Chemical goggles or fate     Wear suitable protective     NIOSH-certified dust are     And chemical properties	ce shield. Contact lenses should not be worn. e clothing.		
Eye protection Skin and body protection Respiratory protection SECTION 9: Physical a	Chemical goggles or fail     Wear suitable protective     NIOSH-certified dust ar	ce shield. Contact lenses should not be worn. e clothing.		
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Eye protection Skin and body protection Respiratory protection <b>SECTION 9: Physical a</b> <b>9.1. Information on bas</b> Physical state Appearance Molecular mass Color Odor Odor Odor threshold Refractive index pH Relative evaporation rate (but Melting point Freezing point Boiling point Flash point Auto-ignition temperature Decomposition temperature	<ul> <li>Chemical goggles or fail</li> <li>Wear suitable protective</li> <li>NIOSH-certified dust an</li> </ul> and chemical properties <ul> <li>sic physical and chemical properties</li> <li>Solid</li> <li>Solid.</li> <li>297.73 g/mol</li> <li>Off-white.</li> <li>Acrid. Similar to hydrog</li> <li>No data available</li> <li>1.5135</li> <li>No data available</li> <li>36 - 37 °C</li> <li>No data available</li> <li>135 °C @ 3 mm Hg</li> <li>155 °C</li> <li>No data available</li> <li>No data available</li> <li>No data available</li> </ul>	ce shield. Contact lenses should not be worn. e clothing. nd mist (orange cartridge) respirator.		
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Safety Data Sheet

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
Explosive 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 stored under a dry ine	ert atmosphere.
10.3. Possibility of hazardous reactions	
Reacts with water and moisture in air, liberating h	ydrogen chloride.
10.4. Conditions to avoid	
Heat. Open flame. Sparks.	
10.5. Incompatible materials	
Acids. Alcohols. Oxidizing agent.	
<b>10.6.</b> Hazardous decomposition products	
Hydrogen chloride. Organic acid vapors.	
SECTION 11: Toxicological informati	on
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Hydrogen chloride (7647-01-0)	
LD50 oral rat	238 - 277 mg/kg
LD50 dermal rabbit	> 5010 mg/kg
LC50 inhalation rat (mg/l)	1.68 mg/l (Exposure time: 1 h)
ATE US (oral)	238.000 mg/kg body weight
ATE US (vapors)	1.680 mg/l/4h
ATE US (dust, mist)	1.680 mg/l/4h
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
Hydrogen chloride (7647-01-0)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
Reproductive toxicity Specific target organ toxicity (single exposure)	: Not classified : Not classified
Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure)	<ul> <li>Not classified</li> <li>Not classified</li> </ul>
Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure) Aspiration hazard	<ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>
Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure)	<ul> <li>Not classified</li> <li>Not classified</li> </ul>
Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure) Aspiration hazard	<ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>May cause irritation to the respiratory tract. Overexposure may cause: Coughing. Headache.</li> </ul>
Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure) Aspiration hazard Symptoms/injuries after inhalation	<ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>May cause irritation to the respiratory tract. Overexposure may cause: Coughing. Headache. Nausea.</li> </ul>
Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure) Aspiration hazard Symptoms/injuries after inhalation Symptoms/injuries after skin contact	<ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>May cause irritation to the respiratory tract. Overexposure may cause: Coughing. Headache. Nausea.</li> <li>Causes (severe) skin burns.</li> </ul>
Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure) Aspiration hazard Symptoms/injuries after inhalation Symptoms/injuries after skin contact Symptoms/injuries after eye contact	<ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>May cause irritation to the respiratory tract. Overexposure may cause: Coughing. Headache. Nausea.</li> <li>Causes (severe) skin burns.</li> <li>Causes serious eye damage.</li> </ul>

SECTION 12: Ecological information		
12.1.	Toxicity	
No addit	ional information available	

Safety Data Sheet

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.
<b>SECTION 13: Disposal considerations</b>	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.
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.
Department of Transportation (DOT) Hazard	(ADAMANTYLETHYLTRICHLOROSILANE) : 8 - Class 8 - Corrosive material 49 CFR 173.136
Classes Hazard labels (DOT)	: 8 - Corrosive
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	. C. The meterial must be stowed "an deak anty" on a correct vessel and an a pressnant vessel
_	<ul> <li>C - The material must be stowed "on deck only" on a cargo vessel and on a passenger vessel.</li> <li>40 - Stow "clear of living quarters"</li> </ul>
-	
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	
Hydrogen chloride (7647-01-0)	
Listed on the United States TSCA (Toxic Substa	nces Control Act) inventory
Listed on the United States SARA Section 302 Listed on United States SARA Section 313	
SARA Section 302 Threshold Planning Quantity (TPQ)	500 (gas only)
SARA Section 313 - Emission Reporting	1.0 % (acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size)
02/03/2015	EN (English US) SDS ID: <b>SIA0325.0</b> 5/8

Safety Data Sheet

### Adamantylethyltrichlorosilane (37843-11-1)

#### Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### **15.2. International regulations**

#### Hydrogen chloride (7647-01-0)

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)

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)

#### Adamantylethyltrichlorosilane (37843-11-1)

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

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### 15.3. US State regulations

ADAMANTYLETHYLTRICHLOROSILANE(37843-11-	
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

#### Hydrogen chloride (7647-01-0)

Tryarogen onnonae (10-				
U.S California -	U.S California -	U.S California -	U.S California -	No significance risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
		Female	Male	
No	No	No	No	
Adamantylethyltrichlor	osilane (37843-11-1)			
U.S California -	U.S California -	U.S California -	U.S California -	No significance risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
		Female	Male	
No	No	No	No	

#### Hydrogen chloride (7647-01-0)

U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Acute

U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Chronic

- U.S. California Toxic Air Contaminant List (AB 1807, AB 2728)
- U.S. Connecticut Hazardous Air Pollutants HLVs (30 min)
- U.S. Connecticut Hazardous Air Pollutants HLVs (8 hr)
- U.S. Delaware Accidental Release Prevention Regulations Sufficient Quantities
- U.S. Delaware Accidental Release Prevention Regulations Threshold Quantities
- U.S. Delaware Accidental Release Prevention Regulations Toxic Endpoints
- U.S. Delaware Pollutant Discharge Requirements Reportable Quantities
- U.S. Florida Essential Chemicals List

U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations

- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Emission Levels (ELs)
- U.S. Idaho Occupational Exposure Limits Ceilings
- U.S. Illinois Toxic Air Contaminants
- U.S. Louisiana Reportable Quantity List for Pollutants
- U.S. Maine Air Pollutants Hazardous Air Pollutants
- U.S. Massachusetts Allowable Ambient Limits (AALs)
- U.S. Massachusetts Allowable Threshold Concentrations (ATCs)
- U.S. Massachusetts Oil & Hazardous Material List Groundwater Reportable Concentration Reporting Category 1
- U.S. Massachusetts Oil & Hazardous Material List Groundwater Reportable Concentration Reporting Category 2
- U.S. Massachusetts Oil & Hazardous Material List Reportable Quantity
- U.S. Massachusetts Oil & Hazardous Material List Soil Reportable Concentration Reporting Category 1
- U.S. Massachusetts Oil & Hazardous Material List Soil Reportable Concentration Reporting Category 2
- U.S. Massachusetts Right To Know List
- U.S. Massachusetts Threshold Effects Exposure Limits (TELs)
- U.S. Massachusetts Toxics Use Reduction Act
- U.S. Michigan Occupational Exposure Limits Ceilings

Safety Data Sheet

Hydrogen chloride (7647-01-0)		
U.S Michigan - Polluting Materials List		
U.S Michigan - Process Safety Management Highly Hazardous Chemicals		
U.S Minnesota - Chemicals of High Concern		
U.S Minnesota - Hazardous Substance List		
U.S Minnesota - Permissible Exposure Limits - Ceilings		
U.S New Hampshire - Regulated Toxic Air Pollutants - Ambier	nt Air Levels (AALs) - 24-Hour	
U.S New Hampshire - Regulated Toxic Air Pollutants - Ambier		
U.S New Jersey - Discharge Prevention - List of Hazardous St	ubstances	
U.S New Jersey - Environmental Hazardous Substances List		
U.S New Jersey - Right to Know Hazardous Substance List		
U.S New Jersey - Special Health Hazards Substances List		
U.S New Jersey - TCPA - Extraordinarily Hazardous Substance	es (EHS)	
U.S New York - Occupational Exposure Limits - Ceilings		
U.S New York - Reporting of Releases Part 597 - List of Haza	rdous Substances	
U.S North Carolina - Control of Toxic Air Pollutants		
U.S North Dakota - Air Pollutants - Guideline Concentrations - 1-Hour		
U.S Ohio - Accidental Release Prevention - Threshold Quantities		
U.S Ohio - Extremely Hazardous Substances - Threshold Quantities		
U.S Oregon - Permissible Exposure Limits - Ceilings		
U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List		
U.S Pennsylvania - RTK (Right to Know) List		
U.S Rhode Island - Air Toxics - Acceptable Ambient Levels - 1-Hour		
U.S Rhode Island - Air Toxics - Acceptable Ambient Levels - Annual		
U.S South Carolina - Toxic Air Pollutants - Maximum Allowable		
U.S South Carolina - Toxic Air Pollutants - Pollutant Categorie	S	
U.S Tennessee - Occupational Exposure Limits - Ceilings		
U.S Texas - Effects Screening Levels - Long Term		
U.S Texas - Effects Screening Levels - Short Term		
U.S Vermont - Permissible Exposure Limits - Ceilings		
U.S Washington - Permissible Exposure Limits - Ceilings		
U.S Wisconsin - Hazardous Air Contaminants - All Sources - E		
U.S Wisconsin - Hazardous Air Contaminants - All Sources - E		
U.S Wisconsin - Hazardous Air Contaminants - All Sources - E		
U.S Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet		
U.S Wyoming - Process Safety Management - Highly Hazardo	ius Chemicais	

### 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. 1A	Skin corrosion/irritation Category 1A	
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

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### Safety Data Sheet

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