

Safety Data Sheet SIM6479.3
Date of issue: 08/04/2016 Version: 1.0

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Substance
Physical state : Liquid

Substance name : 11-MERCAPTOUNDECYLOXYTRIMETHYLSILANE

Product code : SIM6479.3 Formula : C14H32OSSi

Synonyms : 11-TRIMETHOXYSILYL)UNDECYLMERCAPTAN

Chemical family : ORGANOSILANE

## 1.2. Relevant identified uses of the substance 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 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 mixture

## **GHS-US classification**

Eye Irrit. 2A H319

Full text of H statements : see section 16

### 2.2. Label elements

## **GHS-US labeling**

Hazard pictograms (GHS-US)



GHS07

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H319 - Causes serious eye irritation

Precautionary statements (GHS-US) : P280 - Wear protective gloves/protective clothing/eye protection/face protection

P264 - Wash hands thoroughly after handling

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

## 2.3. Other hazards

No additional information available

## 2.4. Unknown acute toxicity (GHS US)

No data available

## **SECTION 3: Composition/Information on ingredients**

3.1. Substance

Substance type : Mono-constituent

Name : 11-MERCAPTOUNDECYLOXYTRIMETHYLSILANE

CAS No : 394210-97-0

Name	Product identifier	%	GHS-US classification
11-Mercaptoundecyloxytrimethylsilane	(CAS No) 394210-97-0	95 - 100	Eye Irrit. 2A, H319

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#### 3.2. **Mixture**

Not applicable

## **SECTION 4: First aid measures**

## **Description of first aid measures**

: Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek First-aid measures general 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 medical advice/attention.

First-aid measures after eve contact Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get 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 effects, both acute and delayed

Symptoms/injuries after inhalation : May cause irritation to the respiratory tract.

Symptoms/injuries after skin contact : May cause skin irritation. Symptoms/injuries after eye contact Causes serious eye irritation. Symptoms/injuries after ingestion No information available.

## Indication of any immediate medical attention and special treatment needed

No additional information available

## **SECTION 5: Firefighting measures**

#### **Extinguishing media** 5.1.

: Water spray. Foam. Carbon dioxide. Dry chemical. Suitable extinguishing media

: Do not use straight streams. Unsuitable extinguishing media

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Irritating fumes and organic acid vapors may develop when material is exposed to elevated

temperatures or open flame.

### Advice for firefighters

Firefighting instructions Exercise caution when fighting any chemical fire. Use water spray to cool exposed surfaces.

Do not enter fire area without proper protective equipment, including respiratory protection. Protection during firefighting

Avoid all eye and skin contact and do not breathe vapor and mist.

### **SECTION 6: Accidental release measures**

## Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

: Wear protective equipment as described in Section 8. Protective equipment

**Emergency procedures** : Evacuate unnecessary personnel.

#### 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".

### **Environmental precautions**

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

## Methods and material for containment 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.

## Reference to other sections

See Heading 8. Exposure controls and personal protection.

## **SECTION 7: Handling and storage**

# **Precautions for safe handling**

Precautions for safe handling : Avoid all eye and skin contact and do not breathe vapor and mist. Manage all transfers with minimum fugitive emissions to manage odor issues. Provide good ventilation in process area to

prevent accumulation of vapors.

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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 any incompatibilities

Storage conditions : Keep container tightly closed.

Incompatible materials : Moisture. 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/personal 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/acid gas (yellow cartridge)

respirator

: No data available

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Liquid.
Molecular mass : 276.55 g/mol
Color : Clear to straw.

Odor : Unpleasant of sulfide.
Odor threshold : No data available

Refractive index : No data available pH : No data available Relative evaporation rate (butyl acetate=1) : No data available

Freezing point : < 0 °C

Boiling point :  $> 205 \, ^{\circ}\text{C} \, @ \, 2 \, \text{mm Hg}$ 

Flash point : > 110 °C

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapor pressure : < 5 mm Hg @ 25°C

Relative vapor density at 20 °C : < 1 Relative density : > 1 VOC content : < 5 %

Solubility : Insoluble in water. 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

Melting point

No additional information available

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## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No additional information available

### **Chemical stability**

Stable in sealed containers.

### Possibility of hazardous reactions

Reacts with water and moisture in air liberating mercaptoundecanol and hexamethyldisiloxane.

### **Conditions to avoid**

Heat. Open flame. Sparks.

### Incompatible materials

Moisture. Water.

#### **Hazardous decomposition products** 10.6.

Organic acid vapors.

## SECTION 11: Toxicological information

#### Information on toxicological effects 11.1.

Acute toxicity : Not classified Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization Not classified : Not classified Germ cell mutagenicity Carcinogenicity : Not classified : Not classified Reproductive toxicity 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 May cause skin irritation. Symptoms/injuries after eye contact Causes serious eye irritation. No information available. Symptoms/injuries after ingestion 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

## Other adverse effects

Other adverse effects : This substance may be hazardous to the environment.

Effect on ozone layer : No additional information available : No known effects from this product. Effect on the global warming

## **SECTION 13: Disposal considerations**

## Waste treatment methods

Sewage disposal recommendations : Do not dispose of waste into sewer.

Waste disposal recommendations : May be incinerated. Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

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## **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-MERCAPTOUNDECYLOXYTRIMETHYLSILANE (394210-97-0)

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-Mercaptoundecyloxytrimethylsilane (394210-97-0)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

## 15.2. International regulations

No additional information available

## 15.3. US State regulations

11-MERCAPTOUNDECYLOXYTRIMETHYLSILANE(394210-97-0)					
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-Mercaptoundecyloxytrimethylsilane (394210-97-0)

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::

H319 Causes serious eye irritation

### **HMIS III Rating**

Health : 2 Moderate Hazard - Temporary or minor injury may occur

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# Safety Data Sheet

Flammability : 1 Slight Hazard
Physical : 1 Slight Hazard

Prepared by safety and environmental affairs.

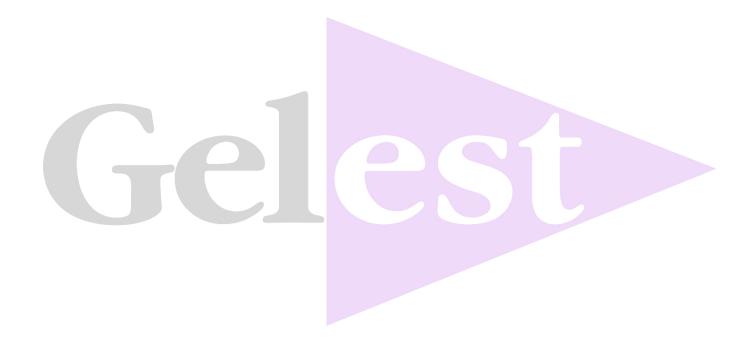
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SDS US (GHS HazCom 2012) - Custom

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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