

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1 Production SCA-S89E SILANE

1.2 Generic Description: Alkoxysilane

1.3 Profile: Health

1.4 IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Manufacturer: Nanjing Capatue Chemical Co., Ltd

Address: Block C Wenhui Building 19F, Caochang Road 101

Nanjing, Jiangsu 210000

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**24Hour Emergency Telephone:** (0086-25)-86371192

Connect with: Anhuanbu

### 2. HAZARDS IDENTIFICATION

**Acute Effects** 

**Eye:** Irritation.

Ingestion: Harmful or fatal,may cause eye damage and blindness

Inhalation: Harmful
Special Harm Combustible

Physical and Ethanol may be formed by reaction with water or moisture

Chemcial Dangerous:

**Hazard Category:** Danger

The above listed potential effects of overexposure are based on actual data, results of studies performed upon similar compositions, component data and/or expert review of the product. Please refer to Section 11 for the detailed toxicology information.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS Number Wt % Component Name

14814-09-6  $\ge 95\%$  3-Mercaptopropyltriethoxysilane The above components are hazardous as defined in 29 CFR 1910.1200.

### 4. FIRST AID MEASURES

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4.1	Eye:	Rinse immediately with plenty of water for several minutes and
		get prompt medical attention.
4.2	Skin:	Put off contaminated clothing.Flush with alcohol or plenty of
		water. If serious,get prompt medical attention
4.3	Inhalation:	Remove from exposure immediately.If serious,get prompt
		medical attention
4.4	Oral:	Give patient two glass of water, induce vomiting and get prompt
		medical attention.
4.5	Major Disease and Harm	Moderately toxic if swallowing.Moderately by absorption
	Effect	through skin.Slight irritation if brief exposure , but long
		exposure may cause marked inflammatory effects
4.6	Notes to Physician:	Treat should be based on blood ethanol levers and acid-base
		balance

5. FIRE FIGHTING MEASURES				
5.1	Flash Point:		87 °C	
5.2	Special Exposure Hazards:		Produce carbon monoxide, carbon dioxide, sulfur dioxide	
5.3	Special I	Extinguishing	Due to its reaction with water, use remote spray monitors	
	procedure:			
5.4	Extinguishing Media:		Dry powder,CO2(small fire),foam(large fire)	
5.5	Special	protection	Equipped with self-contained breathing	
	equipment:			

## 6. ACCIDENTAL RELEASE MEASURES

## 6.1 Containment/Clean up:

Personal protection:Use rubber gloves, eye protection and protective clothing

Environmental protection : Avoid heat, flames, sparks and other sources of ignition

Methods for cleaning up : Absorb the leaking material with sand, wipe and wash with suds

**Note:** See section 8 for Personal Protective Equipment for Spills. Call Capatue Chemical, if additional information is required.

### 7. HANDLING AND STORAGE

Place it carefully, avoid contact with eye, skin. Wash after handling..

Keep away from sources of ignition, keep container tightly closed and store in dry, cool and ventilate place

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### **Component Exposure Limits**

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<u>CAS Number</u> <u>Component Name</u> <u>Exposure Limits</u>

14814-09-6 3-Mercaptopropyltriethoxysilane

**Engineering Controls** 

Local Ventilation: Recommended.

General Ventilation: Recommended.

**Control factor:** 

• TWA/STEL/CEILING:

Methanol:200ppm(262mg/m3)TWA(ACGIH) 250ppm(320mg/m3)STEL(ACGIH)

• Biotic Index :Not applicable

Personal Protective Equipment for Routine Handling

**Eyes:** Eye protection

Skin and Body Common protective clothing

**Protection:** 

**Respiratory Protection:** Respirator **Hand Protection** Rubber gloves

Hygiene Procedures Observe the common precautionary measures, contaminated clothes must be

changed immediately, wash hands after work is completed

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical Form:** Liquid

Colorless

Odor: Mercapto odor

**Specific Gravity @ 25°C:** 0.98  $\pm 0.020$ 

**Viscosity:** Not applicable

Freezing/Melting Point: Not applicable

**Boiling Point:** 82~83°C(5mm/Hg)

Vapor Pressure @ 20°C: <1.33hPa

Vapor Density: .Heavier than air

**Solubility in Water:** React with water slowly

pH: Not applicable

**Volatile Content:** Not applicable

**Flash Point:** 87 °C

Autoignition Temperature: Not applicable

**Refractive Index**  $1.430 \pm 0.020(25^{\circ}\text{C})$ 

**Spontaneous Temperature** Not applicable

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Explosion Limits Not applicable

**Decomposition Temperature**Not applicable **Flammability Limits in Air:**Not applicable

Note: The above information is not intended for use in preparing product specifications. Contact Capatue

Chemical before writing specifications.

### 10. STABILITY AND REACTIVITY

10.1 Chemical Stability: Stable

10.2 Hazardous None if used as directed

**Polymerization:** Not applicable

Conditions to Avoid: None

Materials to Avoid: Acids, water, strong oxidants

**Hazardous Decomposition Products** 

Carbon monoxide, carbon dioxide, sulfur dioxide and oxide of silicon

### 11. TOXICOLOGICAL INFORMATION

#### **Acute Toxicity:**

 $Methanol: LD50\ 5628mg/kg(oral,rat), LD5014200mg/kg(oral,rabbit), LD50\ 15800mg/kg(skin,rabbit)$ 

3- Mercaptopropyltriethoxysilane:LD502830ul/kg(oral,rat),LD50 5660ul/kg(skin,rabbit)

Local effects:If swallowing,may cause nausea, abdominal pain, vomiting and headche.

Prolonged and widespread contact may result in kedney damage

If inhalation, may cause dizziness, drowsiness, disturbances of vision and tingling.

**Sensitive:** Skin and eye contact leads to slight irritation

Chronic: Not applicable

Exceptional effect: Not applicable

Mutagens

CAS Number Wt % Component Name

14814-09-6 ≥ 95. 0% 3-Mercaptopropyltriethoxysilane

### 12. ECOLOGICAL INFORMATION

## Poss ibility of Environmental Impact/MOVE:

All available ecological date have been taken into account for the development of the bazard and precautionary information contained in this document.

This table is adapted from "Environmental Toxicology and Risk Assessment", ASTM STP 1179, p.34, 1993.

This table can be used to classify the ecotoxicity of this product when ecotoxicity data is listed above. Please read the other information presented in the section concerning the overall ecological safety of this material.

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### 13. DISPOSAL CONSIDERATIONS

When a decision is made to discard this material, as received, is it classified as a hazardous waste? No State or local laws may impose additional regulatory requirements regarding disposal. Call Capatue Chemical, if additional information is required.

### 14. TRANSPORT INFORMATION

14.1International Transport RegulationNot applicable14.2United Nations Number(Un-No)Not applicable14.3Internal Transport RegulationNot applicable

Call Capatue Chemical if additional information is required.

### 15. REGULATORY INFORMATION

Apply regulation: Not applicable

### 16. OTHER INFORMATION

Prepared by: Nanjing Capatue Chemical Co., Ltd

These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

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