

## 3-(2-Aminoethylamino)propyltriethoxysilane SAFETY DATA SHEET

### Section 1. BASE INFORMATION

**Product name:** 3-(2-Aminoethylamino)propyltriethoxysilane

### Section 2. HAZARDS IDENTIFICATION

#### Classification of the GHS

**PHYSICAL HAZARDS** Not classified

#### HEALTH HAZARDS

Category 2

#### Skin corrosion/irritation

**Serious eye damage/eye irritation** Category 2A

Not classified

#### ENVIRONMENTAL HAZARDS

#### GHS label elements

#### Pictograms or hazard symbols

**Signal word** Warning

**Hazard statement** Causes skin irritation

Causes serious eye irritation

#### Precautionary statements

**[Prevention]** Wash hands thoroughly after handling.

Wear protective gloves/eye protection/face protection.

**[Response]** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Gently wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

### Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance/mixture:** Substance

**Component(s):** 3-(2-Aminoethylamino)propyltriethoxysilane

**Percent:** >96.0%(GC)

**CAS Number:** 5089-72-5

**Synonyms:** N-(3-Triethoxysilylpropyl)ethylenediamine

**Chemical Formula:** C<sub>11</sub>H<sub>28</sub>N<sub>2</sub>O<sub>3</sub>Si

### Section 4. FIRST AID MEASURES

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Get medical advice/attention if you feel unwell.

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**Skin contact:** Remove/Take off immediately all contaminated clothing. Gently wash with plenty of

soap and water. If skin irritation or rash occurs: Get medical advice/attention.

**Eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Ingestion:** Get medical advice/attention if you feel unwell. Rinse mouth.

A rescuer should wear personal protective equipment, such as rubber gloves and air-

**Protection of first-aiders:**

tight goggles.

#### Section 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:** Dry chemical, foam, carbon dioxide.

**Extinguishing media not to be used:**

**Water (It may scatter and spread fire.)**

**Specific hazards:**

Take care as it may decompose upon combustion or in high temperatures to

generate poisonous fume.

**Specific methods:** Fire-extinguishing work is done from the windward and the suitable fire-extinguishing

method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so.

**Special protective equipment for firefighters:** When extinguishing fire, be sure to wear personal protective equipment.

#### Section 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and Ensure adequate ventilation. Entry to non-involved personnel should be controlled** Use personal protective equipment. Keep people away from and upwind of spill/leak.

**emergency procedures: around the leakage area by roping off, etc.**

**Environmental precautions: Prevent product from entering drains.**

**Methods and materials for Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust).**

**containment and cleaning In case of large amount of spillage, contain a spill by bunding. Adhered or collected**

**up: material should be promptly disposed of, in accordance with appropriate laws and regulations.**

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## Section 7. HANDLING AND STORAGE

### Handling

**Technical measures:** Handling is performed in a well ventilated place. Wear suitable protective equipment.

Prevent generation of vapor or mist. Wash hands and face thoroughly after handling.

Use a ventilation, local exhaust if vapor or aerosol will be generated.

**Advice on safe handling:** Avoid contact with skin, eyes and clothing.

### Storage

**Storage conditions:** Keep container tightly closed. Store in a cool and dark place.

Store under inert gas.

Protect from moisture.

Store away from incompatible materials such as oxidizing agents.

**Packaging material:** Law is followed.

## Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering controls:** Install a closed system or local exhaust as possible so that workers should not be

exposed directly. Also install safety shower and eye bath.

### Personal protective equipment

**Respiratory protection: Vapor respirator. Follow local and national regulations.**

**Hand protection:** Protective gloves.

**Eye protection:** Safety glasses. A face-shield, if the situation requires.

**Skin and body protection: Protective clothing. Protective boots, if the situation requires.**

## Section 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state (20°C):** Liquid

**Form:** clear

Colorless - Very pale yellow

**Color:**

**Odor:** No data available

**pH: No data available**

**Melting point/freezing point: No data available**

156 °C/2kPa

**Boiling Point/Range:**

**Flash Point:** No data available

**Explosive limits**

**Lower:** No data available

**Upper:** No data available

**Density:** 0.98

No data available

**Solubility:**

## Section 10. STABILITY AND REACTIVITY

**Stability:** Stable under proper conditions.

**Reactivity:** No special reactivity has been reported.

**Conditions to avoid:** Moisture-sensitive

**Incompatible materials: oxidizing agents**

**Hazardous Decomposition** Carbon monoxide, Carbon dioxide, Nitrogen oxides (NO<sub>x</sub>), Silicon oxides

**Products:**

## Section 11. TOXICOLOGICAL INFORMATION

No data available

**Acute Toxicity:**

**Skin corrosion/irritation: No data available**

No data available

**Serious eye**

**damage/irritation:**

**Germ cell mutagenicity: No data available**

**Carcinogenicity:**

**IARC =** No data available

**NTP =** No data available

No data available

**Reproductive toxicity:**

## Section 12. ECOLOGICAL INFORMATION

**Ecotoxicity:**

No data available

**Fish:**

**Crustacea:** No data available

**Algae:** No data available

**Persistence / degradability: No data available**

**Bioaccumulative** No data available

**potential(BCF):**

**Mobility in soil**

**log Pow:** No data available

No data available

**Soil adsorption (K<sub>oc</sub>):**

**Henry's Law** No data available

**constant(PaM<sup>3</sup>/mol):**

## Section 13. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical

incinerator equipped with an afterburner and scrubber system. Observe all federal, state and

local regulations when  
disposing of the substance.

#### **Section 14. TRANSPORT INFORMATION**

**Hazards Class:** Does not correspond to the classification standard of the United Nations  
Not Listed

**UN-No:**

#### **Section 15. REGULATORY INFORMATION**

**Safe management ordinance of dangerous chemical product (State Council announces  
on January 26,**

**2002): Safe use and production, the storage of a dangerous chemical, transport,  
loading and unloading were  
prescribed.**

#### **SECTION 16 - ADDITIONAL INFORMATION**

N/A