

## Chemical Safety Data Sheet MSDS / SDS

**3-(N-Styrylmethyl-2-aminoethylamino)-propyltrimethoxysilane hydrochloride**

Revision Date:2026-05-31 Revision Number:1

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****Product identifier**

|               |                                                                                   |
|---------------|-----------------------------------------------------------------------------------|
| Product name  | : 3-(N-Styrylmethyl-2-aminoethylamino)-propyltrimethoxysilane hydrochloride       |
| CBnumber      | : CB7345856                                                                       |
| CAS           | : 34937-00-3                                                                      |
| EINECS Number | : 252-297-3                                                                       |
| Synonyms      | : KH-6032,3-(N-Styrylmethyl-2-Aminoethylamino)-Propyltrimethoxysilanehydrchloride |

**Relevant identified uses of the substance or mixture and uses advised against**

|                          |                                                                |
|--------------------------|----------------------------------------------------------------|
| Relevant identified uses | : For R&D use only. Not for medicinal, household or other use. |
| Uses advised against     | : none                                                         |

**Company Identification**

|           |                                                                                      |
|-----------|--------------------------------------------------------------------------------------|
| Company   | : Chemicalbook                                                                       |
| Address   | : Building 1, Huihuang International, Shangdi 10th Street, Haidian District, Beijing |
| Telephone | : 010-86108875                                                                       |

**SECTION 2: Hazards identification****GHS Label elements, including precautionary statements**

Symbol(GHS)



Signal word

Danger

**Precautionary statements**

P501 Dispose of contents/container to.....

P405 Store locked up.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P320 Specific treatment is urgent (see ... on this label).

P310 Immediately call a POISON CENTER or doctor/physician.

P304+P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.

P284 Wear respiratory protection.

P271 Use only outdoors or in a well-ventilated area.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P501 Dispose of contents/container to.....

P403+P235 Store in a well-ventilated place. Keep cool.

P370+P378 In case of fire: Use ... for extinction.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P243 Take precautionary measures against static discharge.

P242 Use only non-sparking tools.

P241 Use explosion-proof electrical/ventilating/lighting/.../equipment.

P240 Ground/bond container and receiving equipment.

P233 Keep container tightly closed.

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P501 Dispose of contents/container to.....

P405 Store locked up.

P321 Specific treatment (see ... on this label).

P307+P311 IF exposed: call a POISON CENTER or doctor/physician.

P270 Do not eat, drink or smoke when using this product.

P264 Wash skin thoroughly after handling.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

#### **Hazard statements**

H330 Fatal if inhaled

H225 Highly Flammable liquid and vapour

H370 Causes damage to organs

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## SECTION 3: Composition/information on ingredients

### **Substance**

|              |                                                                                    |
|--------------|------------------------------------------------------------------------------------|
| Product name | : 3-(N-Styrylmethyl-2-aminoethylamino)-propyltrimethoxysilane hydrochloride        |
| Synonyms     | : KH-6032,3-(N-Styrylmethyl-2-Aminoethylamino)-Propyltrimethoxysilanehydrochloride |
| CAS          | : 34937-00-3                                                                       |
| EC number    | : 252-297-3                                                                        |
| MF           | : C <sub>17</sub> H <sub>31</sub> ClN <sub>2</sub> O <sub>3</sub> Si               |
| MW           | : 374.98                                                                           |

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## SECTION 4: First aid measures

### **First Aid Measures**

#### **General advice**

Immediate medical attention is required. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### **Eye contact**

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Call a physician immediately.

#### **Skin Contact**

Wash off immediately with plenty of water.

**Inhalation**

Immediate medical attention is required Remove to fresh air If not breathing, give artificial respiration Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation

**Ingestion**

Do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Drink plenty of water.

**Self-protection of the first aider**

Remove all sources of ignition.

**Most important symptoms and effects, both acute and delayed****Symptoms**

No information available.

**Indication of any immediate medical attention and special treatment needed****Note to physicians**

Treat symptomatically.

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## SECTION 5: Firefighting measures

**Suitable Extinguishing Media****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media**

None.

**Specific hazards arising from the chemical****Specific hazards arising from the chemical**

Thermal decomposition can lead to release of toxic/corrosive gases and vapors.

**Hazardous combustion products**

Carbon oxides. Nitrogen oxides (NOx). Phosgene.

**Explosion data****Sensitivity to Mechanical Impact**

No information available.

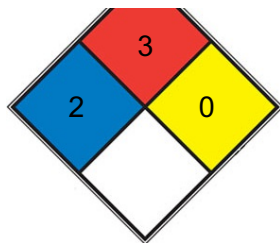
**Sensitivity to Static Discharge**

No information available.

**Protective equipment and precautions for firefighters****Protective equipment and precautions for firefighters**

As in any fire, wear self contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**NFPA 704**



|   |        |   |                                                                                                                                                                                                                                                                                                                                                             |
|---|--------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ■ | HEALTH | 2 | Intense or continued but not chronic exposure could cause temporary incapacitation or possible residual injury (e.g. <a href="#">diethyl ether</a> , ammonium phosphate, iodine)                                                                                                                                                                            |
| ■ | FIRE   | 3 | Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions . Liquids having a flash point below 22.8 °C (73 °F) and having a boiling point at or above 37.8 °C (100 °F) or having a flash point between 22.8 and 37.8 °C (73 and 100 °F). (e.g. gasoline, <a href="#">acetone</a> ) |
| ■ | REACT  | 0 | Normally stable, even under fire exposure conditions, and is not reactive with water (e.g. helium, <a href="#">N<sub>2</sub></a> )                                                                                                                                                                                                                          |
| □ | SPEC.  |   |                                                                                                                                                                                                                                                                                                                                                             |
| □ | HAZ.   |   |                                                                                                                                                                                                                                                                                                                                                             |

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

#### Personal precautions

Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas.

#### Environmental precautions

##### Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

See Section 12 for additional Ecological Information.

### Methods and material for containment and cleaning up

#### Methods for containment

Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.

#### Methods for cleaning up

Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers.

## SECTION 7: Handling and storage

### Precautions for safe handling

#### Advice on safe handling

Ensure adequate ventilation, especially in confined areas. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when

handling the product must be grounded. Handle in accordance with good industrial hygiene and safety practice. Corrosive hazard. Wear protective gloves/clothing and eye/face protection. Thermal decomposition can lead to release of toxic/corrosive gases and vapors.

### Conditions for safe storage, including any incompatibilities

#### Storage Conditions

Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Store at room temperature.

#### Incompatible materials

None known based on information supplied.

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## SECTION 8: Exposure controls/personal protection

### Control parameters

#### Exposure Guidelines

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#### Other Information

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

| Chemical Name       | ACGIH TLV                           | OSHA PEL                                                                                                                                      | NIOSH IDLH                                                                           |
|---------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Methanol<br>67-56-1 | STEL: 250 ppm<br>TWA: 200 ppm<br>S* | TWA: 200 ppm<br>TWA: 260 mg/m3 (vacated) TWA: 200 ppm (vacated) TWA: 260 mg/m3 (vacated) STEL: 250 ppm (vacated) STEL: 325 mg/m3 (vacated) S* | IDLH: 6000 ppm<br>TWA: 200 ppm<br>TWA: 260 mg/m3<br>STEL: 250 ppm<br>STEL: 325 mg/m3 |

NIOSH IDLH Immediately Dangerous to Life or Health

### Appropriate engineering controls

#### Engineering Controls

Showers

Eyewash stations

Ventilation systems

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Tight sealing safety goggles.

#### Skin and Body Protection

Wear protective gloves and protective clothing.

#### Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure

supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

#### General Hygiene Considerations

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

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## SECTION 9: Physical and chemical properties

### Information on basic physicochemical properties

|                              |                                     |
|------------------------------|-------------------------------------|
| Physical State               | liquid                              |
| Appearance                   | No information available            |
| Odor                         | characteristic                      |
| pH                           | No information available            |
| Melting point/freezing point | No information available            |
| Boiling point                | 65°C                                |
| Flash point                  | 12 °C                               |
| Density                      | 0.905 g/mL at 25 °C                 |
| Evaporation rate             | No information available            |
| Upper flammability limits    | No information available            |
| Lower flammability limit     | No information available            |
| Vapor pressure               | No information available            |
| Vapor density                | No information available            |
| Specific gravity             | No information available            |
| Water solubility             | No information available            |
| Solubility in other solvents | No information available            |
| Partition coefficient        | No information available            |
| Autoignition temperature     | No information available            |
| Decomposition temperature    | No information available            |
| Kinematic viscosity          | No information available            |
| Explosive properties         | No information available            |
| Oxidizing properties         | No information available            |
| Colour                       | Light yellow to Amber to Dark green |

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## SECTION 10: Stability and reactivity

### Reactivity

Not applicable

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### **Hazardous polymerization**

No information available.

### **Conditions to avoid**

Heat, flames and sparks.

### **Incompatible materials**

Strong oxidizing agents.

### **Hazardous Decomposition Products**

Carbon oxides. Nitrogen oxides (NOx). Phosgene.

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## **SECTION 11: Toxicological information**

### **Information on likely routes of exposure**

#### **Inhalation**

Classified based on available data. For more details, see section 2.

#### **Eye contact**

Classified based on available data. For more details, see section 2.

#### **Skin Contact**

Classified based on available data. For more details, see section 2.

#### **Ingestion**

Classified based on available data. For more details, see section 2.

### **Information on toxicological effects**

#### **Symptoms**

Classified based on available data. For more details, see section 2.

### **Delayed and immediate effects as well as chronic effects from short and long-term exposure**

#### **Chronic Toxicity**

Classified based on available data. For more details, see section 2. Target Organ Effects Gastrointestinal tract (GI), Central nervous system, Eyes, Respiratory system, Skin.

### **Numerical measures of toxicity - Product Information**

#### **Unknown acute toxicity**

65% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document

#### **ATEmix (oral)**

100 mg/kg

#### **ATEmix (dermal)**

300 mg/kg

#### **ATEmix (inhalation-dust/mist)**

## SECTION 12: Ecological information

### Ecotoxicity

| Chemical Name       | Algae/aquatic plants | Fish                                                                                                                                                                                                                                                                                         | Toxicity to Microorganisms | Crustacea |
|---------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------|
| Methanol<br>67-56-1 | -                    | 28200: 96 h Pimephales promelas mg/L LC50 flow-through 100: 96 h Pimephales promelas mg/L<br>LC50 static 13500 - 17600: 96 h Lepomis macrochirus mg/L LC50 flow-through 18 - 20: 96 h Oncorhynchus mykiss mL/L LC50 static 19500 - 20700: 96 h Oncorhynchus mykiss mg/L<br>LC50 flow-through | -                          | -         |

65% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

### Methanol

28200: 96 h Pimephales - -

### Pimephales promelas mg/L

### LC50 static 13500

17600: 96 h Lepomis macrochirus

### Oncorhynchus mykiss mg/L

LC50 flow-through

65% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

**Persistence and degradability No information available. Bioaccumulation No information available. Mobility No information available.**

### Methanol

-0.77 67-56-1

## SECTION 13: Disposal considerations

### Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

### Contaminated packaging

Do not reuse container.

### Other Information

Waste codes should be assigned by the user based on the application for which the product was used.

## US EPA Waste Number

U154

## California Hazardous Waste Status

This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical Name    | California Hazardous Waste Status |
|------------------|-----------------------------------|
| Methanol 67-56-1 | Toxic<br>Ignitable                |

## Methanol

Toxic

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## SECTION 14: Transport information

### DOT

#### UN/ID no

UN1992

#### Hazard Class

3

#### Subsidiary class

6.1

#### Packing Group

II

#### Proper shipping name

Flammable liquids, toxic, n.o.s.

#### Description

UN1992, Flammable liquids, toxic, n.o.s. (Methanol), 3 (6.1), II

#### Emergency Response Guide Number

131

### IMDG

#### UN/ID no

UN1992

#### Hazard Class

3

#### Subsidiary hazard class

6.1

#### Packing Group

II

#### Proper shipping name

Flammable liquid, toxic, n.o.s.

#### Description

UN1992, Flammable liquid, toxic, n.o.s. (Methanol), 3 (6.1), II, (12°C c.c.)

#### Special Provisions

274

#### EmS-No

F-E, S-D

#### IATA

#### UN/ID no

UN1992

#### Hazard Class

3

#### Subsidiary hazard class

6.1

#### Packing Group

II

#### Proper shipping name

Flammable liquid, toxic, n.o.s.

#### Description

UN1992, Flammable liquid, toxic, n.o.s. (Methanol), 3 (6.1), II

## SECTION 15: Regulatory information

### International Inventories

All of the components in the product are on the following Inventory lists

TSCA (United States): Canada (DSL/NDL) Europe (EINECS/ELINCS/NLP) Australia (AICS) China (IECSC)

X - Listed

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

| Chemical name                                                                | TSCA | DSL | NDL | EINECS | ELINCS | ENCS | IECSC | KECL | PICCS | AICS |
|------------------------------------------------------------------------------|------|-----|-----|--------|--------|------|-------|------|-------|------|
| N-[2-(N-Vinylbenzylamino)ethyl]-3-aminopropyltrimethoxy silane hydrochloride | X    | -   | X   | X      | -      | -    | X     | -    | -     | X    |
| Methanol                                                                     | X    | X   | -   | X      | -      | X    | X     | X    | X     | X    |

### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

## SARA 311/312 Hazard Categories

### Acute health hazard

Yes

### Chronic Health Hazard

No

### Fire hazard

Yes

### Sudden release of pressure hazard

No

### Reactive hazard

No

## CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

## US State Regulations

### U.S. State Right-to-Know Regulations

| Chemical Name    | New Jersey | Massachusetts | Pennsylvania |
|------------------|------------|---------------|--------------|
| Methanol 67-56-1 | X          | X             | X            |

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## SECTION 16: Other information

### Abbreviations and acronyms

CAS: Chemical Abstracts Service

TWA: Time-Weighted Average

STEL: Short-Term Exposure Limit

LD50: Lethal Dose 50%

LC50: Lethal Concentration 50%

EC50: Effective Concentration 50%

PEL: Permissible Exposure Limit

TLV: Threshold Limit Value

IMDG: International Maritime Dangerous Goods Code

IATA: International Air Transport Association

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

DOT: US Department of Transportation

NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety and Health Administration

### Disclaimer:

The information in this MSDS is only applicable to the specified product, unless otherwise specified, it is not applicable to the mixture of

this product and other substances. This MSDS only provides information on the safety of the product for those who have received the appropriate professional training for the user of the product. Users of this MSDS must make independent judgments on the applicability of this SDS. The authors of this MSDS will not be held responsible for any harm caused by the use of this MSDS.