# (3-Aminopropyl) trimethoxysilane: sc-251942



1~

~ `

#### MATERIAL SAFETY DATA SHEET

### 1 Identification of substance:

Product Name:	(3-Aminopropyl)trimethoxysilane
Catalog Number:	sc-251942
Supplier:	Santa Cruz Biotechnology, Inc. 2145 Delaware Avenue Santa Cruz, California 95060 800.457.3801 or 831.457.3800
Emergency:	ChemWatch Within the US & Canada: 877-715-9305 Outside the US & Canada: +800 2436 2255 (1-800-CHEMCALL) or call +613 9573 3112

Causes severe skin burns and eye damage.

### 2 Hazards identification

Classification of the substance or mixture



GHS05 Corrosion

H314 H318

Causes serious eye damage.

H227 Combustible liquid.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

C; Corrosive R34:

Causes burns.

Label elements

Labelling according to EU guidelines: Code letter and hazard designation of product: C Corrosive Risk phrases: 34 Causes burns. Safety phrases: 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

45 In case of accident or if you feel unwell, seek medical advice immediately. Hazard description: WHMIS classification



Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)

HEALTH	3
FIRE	2
REACTIVITY	1

Health (acute effects) = 3Flammability = 2Reactivity = 1

Other hazards Results of PBT and vPvB assessment **PBT:** Not applicable. **vPvB:** Not applicable.

### 3 Composition/information on ingredients

Chemical characterization: Substances (CAS#) Description: (3-Aminopropyl)trimethoxysilane (CAS# 13822-56-5) Identification number(s): **EINECS Number:** 237-511-5

### 4 First aid measures

Description of first aid measures General information Immediately remove any clothing soiled by the product. After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek immediate medical advice.

### 5 Firefighting measures

### Extinguishing media

Suitable extinguishing agents Use carbon dioxide, extinguishing powder or foam. Water may be ineffective but may be used for cooling exposed containers. Special hazards arising from the substance or mixture In case of fire, the following can be released: Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Possibly Hydrogen cyanide (HCN) Silicon oxide Advice for firefighters Protective equipment: Warm colf protective equipment:

Wear self-contained respirator. Wear fully protective impervious suit.

### 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Environmental precautions:
Do not allow material to be released to the environment without proper governmental permits.
Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralizing agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Reference to other sections
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

### 7 Handling and storage

Handling Precautions for safe handling Handle under dry protective gas. Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: Keep ignition sources away. Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from oxidizing agents. Do not store together with acids. Store away from air. Store away from water/moisture. Further information about storage conditions: Store under dry inert gas. This product is moisture sensitive. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from humidity and water. This product is air sensitive. Store at room temperature.

### 8 Exposure controls/personal protection

#### Additional information about design of technical systems:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Control parameters Components with limit values that require monitoring at the workplace: Not required. Additional information: No data

Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: Check protective gloves prior to each use for their proper condition. Impervious gloves Material of gloves The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Eye protection: Safety glasses Tightly sealed goggles Full face protection Body protection: Protective work clothing.

### 9 Physical and chemical properties

Information on basic physical and chemical General Information Appearance:	properties
Form:	Liquid
Formula:	C6H17NO3Si
Weight:	179.29
pH-value:	Not determined.
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 194°C (381 °F) Not determined
Flash point:	90°C (194 °F)
Flammability (solid, gaseous)	Not applicable.
Ignition temperature:	295°C (563 °F)
Decomposition temperature:	Not determined
Auto igniting:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined
Upper:	Not determined
Vapor pressure:	Not determined
Density at 20°C (68 °F):	1.02 g/cm³ (8.512 lbs/gal)
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Decomposes
Segregation coefficient (n-octonol/water):	Not determined.
Viscosity: dynamic: kinematic: Other information	Not determined. Not determined. No further relevant information available.

### 10 Stability and reactivity

Reactivity Chemical stability Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions No dangerous reactions known Incompatible materials: Water/moisture Oxidizing agents Acids Air Carbon dioxide Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Silicon oxide Possibly Hydrogen cyanide (HCN)

### 11 Toxicological information

## Information on toxicological effects

Acute toxicity: Primary irritant effect:

on the skin: Corrosive effect on skin and mucous membranes. on the eye: Strong corrosive effect. Sensitization: No sensitizing effects known.

### Subacute to chronic toxicity:

Corrosive materials are acutely destructive to the respiratory tract, eyes, skin and digestive tract. Eye contact may result in permanent damage and complete vision loss. Inhalation may result in respiratory effects such as inflammation, edema, and chemical pneumonitis. May cause coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting. Ingestion may cause damage to the mouth, throat and esophagus. May cause skin burns or irritation depending on the severity of the exposure. Organic silicon compounds are generally of low toxicity. Those exhibiting moisture

sensitivity may be strongly irritating or corrosive on contact.

#### Additional toxicological information:

Swallowing will lead to a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach.

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

### 12 Ecological information

#### Toxicity

Acquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Behavior in environmental systems: Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Do not allow material to be released to the environment without proper governmental permits. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.

#### 13 Disposal considerations

Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal.

Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.

### 14 Transport information



Land transport ADR/RID (cross-b	order)
ADR/RID class:	8 (C7) Corrosive substances
Danger code (Kemler):	80
UN-Number:	2735
Packaging group:	II
UN proper shipping name:	2735 AMINES, LIQUID, CORROSIVE, N.O.S. ((3- Aminopropyl)trimethoxysilane)
Maritime transport IMDG:	
and the second s	
IMDG Class:	8
UN Number:	2735
Label	8
Packaging group:	II
Marine pollutant:	No
Segregation groups	Alkalis
Proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. ((3-Aminopropyl) trimethoxysilane)
Air transport ICAO-TI and IATA-D	GR:
ICAO/IATA Class:	8
UN/ID Number:	2735
Label	8
Packaging group:	II
Proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. ((3-Aminopropyl) trimethoxysilane)

Special precautions for user Warning: Corrosive substances Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

### 15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Product related hazard informations:

### Hazard symbols:

C Corrosive

#### Risk phrases:

34 Causes burns.

#### Safety phrases:

In case of contact with eyes, rinse immediately with plenty of water and seek 26 medical advice.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection. 45 In case of accident or if you feel unwell, seek medical advice immediately.

### National regulations

All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.

All components of this product are listed on the Canadian Domestic Substances List (DSL).

Information about limitation of use: For use only by technically qualified individuals. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 16 Other information:

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.