

# SAFETY DATA SHEET

## 1. Identification

**Product identifier:** TEGO® Cure 100

**Chemical name:** Aminosilane containing polysiloxane

### Other means of identification

**Recommended use:** Industrial use

**Recommended restrictions:** None known.

### Manufacturer/Importer/Distributor Information

Company Name : Evonik Australia Pty Ltd  
Suites 33&37  
1 Ricketts Road  
Mt Waverley, VIC 3149  
Australia

Telephone : +61 3 8581 8400

Fax : +61 3 9544 5002

E-mail : productsafety-cs@evonik.com

### Emergency telephone number:

24-Hour Health : +61 2 9037 2994

Emergency : +1 703 527 3887 (CHEMTREC WORLD)

## 2. Hazard(s) identification

### Classification according to GHS

#### Physical Hazards

Flammable liquids Category 3

#### Health Hazards

Acute toxicity (Oral) Category 5

Skin Corrosion/Irritation Category 1B

Serious Eye Damage/Eye Irritation Category 1

Skin sensitizer Category 1

### Label Elements

**Hazard Symbol:**



**Signal Word:** Danger

**Hazard Statement:** Flammable liquid and vapor.  
May be harmful if swallowed.  
Causes severe skin burns and eye damage.  
May cause an allergic skin reaction.

**Precautionary Statements**

**Prevention:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

**Response:** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/ physician if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instructions on this label). IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage:** Store in a well-ventilated place. Keep cool. Store locked up.

**Disposal:** Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

**Other hazards:** None known.

### 3. Composition/information on ingredients

**Chemical name:**  
Aminosilane containing polysiloxane

**Mixtures**

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
3-Aminopropyltriethoxysilane	No data available.	919-30-2	30 - 60%
1,1,3,3-Tetramethylguanidine	No data available.	80-70-6	<5%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The exact concentration has been withheld as a trade secret.

#### 4. First-aid measures

##### Description of necessary first-aid measures

<b>General information:</b>	Remove soiled or soaked clothing immediately
<b>Inhalation:</b>	fresh air supply, consult a doctor if feeling unwell.
<b>Skin Contact:</b>	In case of contact with skin wash off immediately with soap and water Immediate medical treatment necessary, as untreated burns can result in slow-healing wounds
<b>Eye contact:</b>	In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice
<b>Ingestion:</b>	drink large quantities of water, do not induce vomiting; consult a physician - show this data sheet.
<b>Personal Protection for First-aid Responders:</b>	No data available.

##### Most important symptoms and effects, both acute and delayed

<b>Symptoms:</b>	Causes burns.
<b>Hazards:</b>	No data available.

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

<b>Treatment:</b>	Treat symptomatically.
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#### 5. Fire-fighting measures

##### Suitable (and unsuitable) extinguishing media

**Suitable extinguishing media:** Foam, carbon dioxide or dry powder.

**Unsuitable extinguishing media:** Water.

**Special hazards arising from the substance or mixture:**

In the event of fire the following can be released: - Carbon monoxide, carbon dioxide, silicon dioxide benzene Under certain conditions of combustion traces of other toxic substances cannot be excluded

**Special protective equipment and precautions for firefighters**
**Special fire fighting procedures:**

Keep away from sources of ignition. Take action to prevent static discharges. Vapours may form explosive mixtures with air. Cool endangered containers by water spray

**Special protective equipment for fire-fighters:**

Do not inhale explosion and/or combustion gases. Self-contained breathing apparatus.

<b>6. Accidental release measures</b>
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**Personal precautions, protective equipment and emergency procedures:**

Use personal protective equipment. Keep away sources of ignition. Ensure adequate ventilation.

**Accidental release measures:**

No data available.

**Methods and material for containment and cleaning up:**

Take up with absorbent material (eg sand, kieselguhr, universal binder) Dispose of absorbed material in accordance with the regulations.

**Environmental Precautions:**

Do not allow to enter drains or waterways Prevent product from getting into subsoil/soil.

<b>7. Handling and storage</b>
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**Handling**
**Technical measures (e.g. Local and general ventilation):**

No data available.

**Safe handling advice:**

Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Provide good ventilation of working area (local exhaust ventilation if necessary). Use respiratory protection during spraying.

**Contact avoidance measures:**

No data available.

**Storage**
**Safe storage conditions:**

Keep container tightly closed in a cool, well-ventilated place. Keep away from heat. Keep in a dry place. Protect from atmospheric moisture and water

**Safe packaging materials:**

No data available.

<b>8. Exposure controls/personal protection</b>
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### Control Parameters

#### Occupational Exposure Limits

Observe national threshold limit values.

#### Biological Limit Values

Observe national threshold limit values.

#### Appropriate Engineering Controls

No data available.

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

**General information:** No data available.

**Eye/face protection:** goggles

#### Skin Protection

**Hand Protection:** Material: Butyl rubber.  
Break-through time: 480 min  
Glove thickness: 0.3 mm

**Other:** protective clothing

**Respiratory Protection:** in case of formation of vapours/aerosols: Short term: filter apparatus, combination filter A-P2

**Hygiene measures:** When using do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Remove soiled or soaked clothing immediately. Use skin protective preparation as preventive skin protection.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

#### Appearance

**Physical state:** liquid  
**Form:** liquid  
**Color:** Colorless  
**Odor:** Characteristic  
**Odor Threshold:** not measured  
**Freezing point:** not measured  
**Boiling Point:** not measured  
**Flammability:** not measured

#### Upper/lower limit on flammability or explosive limits

**Explosive limit - upper:** not measured  
**Explosive limit - lower:** not measured  
**Flash Point:** 126 °F/52 °C (DIN EN ISO 2719)  
**Autoignition Temperature:** not measured  
**Decomposition Temperature:** not measured  
**pH:** not measured

**Viscosity****Dynamic viscosity:** 10 - 100 mPa.s (77 °F/25 °C, DIN 53019)**Kinematic viscosity:** 9 - 93 mm<sup>2</sup>/s (77 °F/25 °C, calculated)**Flow Time:** No data available.**Solubility(ies)****Solubility in Water:** not measured**Solubility (other):** not measured**Partition coefficient (n-octanol/water):** not measured**Vapor pressure:** not measured**Relative density:** not measured**Density:** 1.075 g/cm<sup>3</sup> (77 °F/25 °C) (DIN 53217)**Bulk density:** No data available.**Relative vapor density:** not measured**Other information****Explosive properties:** not measured**Oxidizing properties:** not oxidizing**Minimum ignition temperature:** not measured**Metal Corrosion:** Not corrosive to metals**Evaporation Rate:** not measured**10. Stability and reactivity****Reactivity:** see section "Possibility of hazardous reactions".**Chemical Stability:** The product is stable under normal conditions.**Possibility of hazardous reactions:** No hazardous reactions with proper storage and handling**Conditions to avoid:** Open flames, sparks or input of much heat Moisture.**Incompatible Materials:** Water.**Hazardous Decomposition Products:** None with proper storage and handling.**11. Toxicological information****Information on toxicological effects****Information on likely routes of exposure****Inhalation:** Information on effects are given below.**Skin Contact:** Information on effects are given below.**Eye contact:** Information on effects are given below.**Ingestion:** Information on effects are given below.

**Acute toxicity (list all possible routes of exposure)**
**Oral**

<b>Product:</b>	LD 50 (ATEmix): 2,119 mg/kg
<b>Components:</b>	
3- Aminopropyltriethoxysilane	LD 50 (Rat): 1,490 mg/kg
1,1,3,3- Tetramethylguanidine	LD 50 (Rat): 835 mg/kg LD 50 (Rat): 794 mg/kg LD 50 (Rat): 895 mg/kg

**Dermal**

<b>Product:</b>	LD 50 (ATEmix): > 5,000 mg/kg
<b>Components:</b>	
3- Aminopropyltriethoxysilane	No classification
1,1,3,3- Tetramethylguanidine	No data due to skin-corrosive action

**Inhalation**

<b>Product:</b>	LC 50 (ATEmix, 4 h): > 40 mg/l Vapour
<b>Components:</b>	
3- Aminopropyltriethoxysilane	LC 50 (Rat, Female, 4 h): > 20 mg/l Vapour Not applicable, Dust and mist
1,1,3,3- Tetramethylguanidine	Vapour, No data due to skin-corrosive action Dust and mist, No data due to skin-corrosive action

**Repeated dose toxicity**

<b>Product:</b>	No data available.
<b>Components:</b>	
3- Aminopropyltriethoxysilane	NOAEL (Rat(Female, Male), Oral, 90 day, daily): 200 mg/kg
1,1,3,3- Tetramethylguanidine	No data available.

**Skin Corrosion/Irritation**

<b>Product:</b>	No data available.
<b>Components:</b>	
3- Aminopropyltriethoxysilane	OECD 404 (Rabbit): Corrosive. , < 1 h
1,1,3,3- Tetramethylguanidine	OECD 404 (Rabbit): Corrosive. , > 3.01 min - < 1 h

**Serious Eye Damage/Eye Irritation**

<b>Product:</b>	No data available.
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**Components:**

3- Aminopropyltriethoxysilane	OECD 405 (Rabbit): Risk of serious damage to eyes.
1,1,3,3- Tetramethylguanidine	Risk of serious damage to eyes.

**Respiratory or Skin Sensitization**

**Product:** No data available.

**Components:**

3- Aminopropyltriethoxysilane	Buehler Test, OECD 406 (Guinea Pig): May cause sensitization by skin contact.
1,1,3,3- Tetramethylguanidine	No data available.

**Carcinogenicity**

**Product:** No data available.

**Components:**

3- Aminopropyltriethoxysilane	No evidence that cancer may be caused.
1,1,3,3- Tetramethylguanidine	No data available.

**Germ Cell Mutagenicity**

No data available.

**In vitro**

**Product:** No data available.

**Components:**

3- Aminopropyltriethoxysilane	Ames test (OECD 471): negative gene mutation test (OECD 476): negative Chromosomal aberration (OECD 473): negative
1,1,3,3- Tetramethylguanidine	No data available.

**In vivo**

**Product:** No data available.

**Components:**

3- Aminopropyltriethoxysilane	Micronucleus test (OECD 474) Intraperitoneal (Mouse, Female, Male): negative
1,1,3,3- Tetramethylguanidine	No data available.

**Reproductive toxicity**

**Product:** No data available.

**Components:**

3- Aminopropyltriethoxysilane	no evidence of reproductiontoxic properties
1,1,3,3- Tetramethylguanidine	No data available.



**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.  
**Components:**  
 3- Aminopropyltriethoxysilane No data available.  
 1,1,3,3-Tetramethylguanidine No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.  
**Components:**  
 3- Aminopropyltriethoxysilane No data available.  
 1,1,3,3-Tetramethylguanidine No data available.

**Aspiration Hazard**

**Product:** Not classified  
**Components:**  
 3- Aminopropyltriethoxysilane Not classified  
 1,1,3,3-Tetramethylguanidine Not classified

**Information on health hazards**
**Other hazards**

**Product:** No data available.

**12. Ecological information**
**Ecotoxicity:**
**Acute hazards to the aquatic environment:**
**Fish**

**Product:** No data available.  
**Components:**  
 3- Aminopropyltriethoxysilane LC 0 (Brachydanio rerio (zebrafish), 96 h): > 934 mg/l  
 1,1,3,3-Tetramethylguanidine No data available.

**Aquatic Invertebrates**

**Product:** No data available.  
**Components:**  
 3- Aminopropyltriethoxysilane EC 50 (Daphnia magna, 48 h): 331 mg/l

1,1,3,3-  
Tetramethylguanidine EC 50 (Daphnia magna, 48 h): > 100 mg/l  
NOEC (Daphnia magna, 48 h): 100 mg/l

#### Toxicity to Aquatic Plants

**Product:** No data available.

**Components:**

3-  
Aminopropyltriethoxysilan EC 50 (Desmodesmus subspicatus (green algae), 72 h): > 1,000 mg/l  
(OECD 201)

1,1,3,3-  
Tetramethylguanidine EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): > 100 mg/l  
(OECD 201)

#### Toxicity to microorganisms

**Product:** No data available.

**Components:**

3-  
Aminopropyltriethoxysilan EC 10 (Pseudomonas putida, 5.75 h): 13 mg/l (DIN EN ISO 10712)

1,1,3,3-  
Tetramethylguanidine EC 50 (activated sludge, 3 h): 350 mg/l (OECD 209)

#### Toxicity to soil dwelling organisms

**Product:** No data available.

**Components:**

3-  
Aminopropyltriethoxysilan No data available.

1,1,3,3-  
Tetramethylguanidine No data available.

#### Toxicity to terrestrial organisms

**Product:** No data available.

**Components:**

3-  
Aminopropyltriethoxysilan No data available.

1,1,3,3-  
Tetramethylguanidine No data available.

#### Chronic hazards to the aquatic environment:

##### Fish

**Product:** No data available.

**Components:**

3-  
Aminopropyltriethoxysilane No data available.

1,1,3,3-  
Tetramethylguanidine No data available.

##### Aquatic Invertebrates

**Product:** No data available.

**Components:**

3-  
Aminopropyltriethoxysilane No data available.

1,1,3,3-  
Tetramethylguanidine No data available.

#### Toxicity to Aquatic Plants

**Product:** No data available.

**Components:**

3-  
Aminopropyltriethoxysilane NOEC (Desmodesmus subspicatus (green algae), 72 h): 1.3 mg/l (OECD 201)

1,1,3,3-  
Tetramethylguanidine NOEC (Algae (Pseudokirchneriella subcapitata), 72 h): 100 mg/l (OECD 201)

#### Toxicity to microorganisms

**Product:** No data available.

**Components:**

3-  
Aminopropyltriethoxysilane EC 10 (Pseudomonas putida, 5.75 h): 13 mg/l (DIN EN ISO 10712)

1,1,3,3-  
Tetramethylguanidine EC 50 (activated sludge, 3 h): 350 mg/l (OECD 209)

#### Toxicity to soil dwelling organisms

**Product:** No data available.

**Components:**

3-  
Aminopropyltriethoxysilane No data available.

1,1,3,3-  
Tetramethylguanidine No data available.

#### Toxicity to terrestrial organisms

**Product:** No data available.

**Components:**

3-  
Aminopropyltriethoxysilane No data available.

1,1,3,3-  
Tetramethylguanidine No data available.

#### Persistence and Degradability

##### Biodegradation

**Product:** No data available.

**Components:**

3-  
Aminopropyltriethoxysilane 67 % (28 d, (DOC; Die Away test - 79/831/EEC part C.4-A)) The product is not readily biodegradable.

1,1,3,3-  
Tetramethylguanidine 5 % (28 d, OECD 301 D) The product is not biodegradable., aerobic

##### BOD/COD Ratio

**Product:** No data available.

**Components:**

3-  
Aminopropyltriethoxysilan  
e  
1,1,3,3-  
Tetramethylguanidine

No data available.  
No data available.

### Bioaccumulative potential

#### Bioconcentration Factor (BCF)

**Product:** No data available.  
**Components:**  
 3-  
Aminopropyltriethoxysilan  
e  
1,1,3,3-  
Tetramethylguanidine

not bioaccumulative  
No data available.

#### Partition Coefficient n-octanol / water (log Kow)

**Product:** Log Kow: not measured  
**Components:**  
 3-  
Aminopropyltriethoxysilan  
e  
1,1,3,3-  
Tetramethylguanidine

Log Kow: 1.7 20 °C (QSAR)  
No data available.

### Mobility in soil:

**Product** No data available.  
**Components:**  
 3-Aminopropyltriethoxysilan Adsorption on the floor: low.  
 1,1,3,3-  
Tetramethylguanidine No data available.

**Product** No data available.  
**Components:**  
 3-Aminopropyltriethoxysilan No data available.  
 1,1,3,3-  
Tetramethylguanidine No data available.

### Other adverse effects:

#### Other hazards

**Product:** Do not allow to enter soil, waterways or waste water canal.

## 13. Disposal considerations

**Disposal methods:** In accordance with local authority regulations, take to special waste incineration plant

**Contaminated Packaging:** If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards.

**14. Transport information****ADG**

UN number or ID number : UN 2734  
Proper shipping name : AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S.  
(3-Aminopropyl triethoxy silane, 1,1,3,3-Tetramethylguanidine)  
Class : 8  
Subsidiary risk : 3  
Packing group : II  
Labels : 8 (3)  
Hazchem Code : •2W

**International Regulations****IATA-DGR**

UN/ID No. : UN 2734  
Proper shipping name : Amines, liquid, corrosive, flammable, n.o.s.  
(3-Aminopropyl triethoxy silane, 1,1,3,3-Tetramethylguanidine)  
Class : 8  
Subsidiary risk : 3  
Packing group : II  
Labels : 8 (3)  
Packing instruction (cargo aircraft) : 855  
Packing instruction (passenger aircraft) : 851

**IMDG-Code**

UN number or ID number : UN 2734  
Proper shipping name : AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S.  
(3-Aminopropyl triethoxy silane, 1,1,3,3-Tetramethylguanidine)  
Class : 8  
Subsidiary risk : 3  
Packing group : II  
Labels : 8 (3)  
EmS Code : F-E, S-C  
Marine pollutant : no

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

**15. Regulatory information****International regulations**

**Montreal protocol**

Not applicable

**Stockholm convention**

Not applicable

**Rotterdam convention**

Not applicable

**Kyoto protocol**

Not applicable

**Inventory Status:**

EINECS, ELINCS or NLP:	Not in compliance with the inventory.	
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**16. Other information, including date of preparation or last revision****Issue Date:** 19.08.2021**Version #:** 1.1**Further Information:** No data available.**Revision Information:** Changes since the last version are highlighted in the margin. This version replaces all previous versions.**Disclaimer:** This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.