# **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

### 1.1 Product identifier

Product name: Vinyltrimethoxysilane

Product Number: SC-6110 CAS No. 2768-02-7

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Industrial use

Uses advised against: Not for food, drug, pesticide or biocidal product use

### 1.3 Details of the supplier of the safety data sheet

Manufactured/Supplied by Silsource Inc.

ADDRESS: 10625 Bryant Sideroad, Port Perry, Ontario, L9L 2C6

CHEMICAL EMERGENCY ONLY (PHONE): CANUTEC (613) 996-6666 [24 Hr.]

#### **SECTION 2: HAZARD IDENTIFICATION**

### 2.1 Classification of the substance or mixture

### Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Flammable liquids (Category 3)

Acute Toxicity - Inhalation (Category 4)

### 2.2 Label elements

### Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram

Signal word: Danger





### Hazard statement(s)

H225 Highly flammable liquid and vapour.

H332 Harmful if inhaled

# Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. – No Smoking.

#### 2.3 Other hazards - none

# **SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

# 3.1 Substances

Synonyms: Trimethoxy(vinyl)silane, Ethenyltrimethoxysilane

Formula C<sub>5</sub>H<sub>12</sub>O<sub>3</sub>Si

Molecular Weight 148.23 g/mol

Component	Concentration

Vinyltrimethoxysilane
CAS-No. 2768-02-7

EC-No. 220-449-8

# 3.2 Mixtures

Not Relevant

### **SECTION 4: FIRST AID MEASURES**

### 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### **SECTION 5: FIRE-FIGHTING MEASURES**

#### 5.1 Extinguishing media

#### Suitable extinguishing media

For small (incipient) fires, use "alcohol" foam, dry chemical or carbon dioxide.

For large fires, apply water from as far away as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

### 5.2 Special hazards arising from the substance or mixture

Carbon oxides, silicon oxides

#### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

### 5.4 Further information

Use water spray to cool unopened containers.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## 6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For disposal see section 13.

# **SECTION 7: HANDLING AND STORAGE**

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of Electrostatic charge.

# 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Moisture sensitive.

### 7.3 Specific end uses

no data available

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Components with workplace control parameters

#### 8.2 Exposure controls

### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### Personal protective equipment

#### Eye/face protection

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

### **Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

# 9.1 Information on basic physical and chemical properties

Colourless liquid **Appearance** Odour no data available Odour Threshold no data available no data available рΗ no data available Melting point/freezing

Point

Initial boiling point 123° C - lit.

22° C - closed cup Flash point no data available Evaporation rate Flammability (solid, gas) no data available Upper/lower flammability or no data available

explosive limits

Vapour pressure no data available Vapour density no data available

Relative density 0.968 g/cm3 at 25° C no data available Water solubility Partition coefficient: noctanol/ no data available

water

Autoignition temperature no data available Decomposition temperature no data available

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Viscosity no data available
Explosive properties no data available
Oxidizing properties no data available

### 9.2 Other safety information

no data available

### **SECTION 10: STABILITY AND REACTIVITY**

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

no data available

### 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

Exposure to moisture may affect product quality.

Heat, flames and sparks. Extremes of temperature and direct sunlight.

### 10.5 Incompatible materials

Strong acids, Strong oxidizing agents.

### 10.6 Hazardous decomposition products

Other decomposition products - no data available

### **SECTION 11: TOXICOLOGICAL INFORMATION**

### 11.1 Information on toxicological effects

### **Acute toxicity**

LC50 Inhalation – Rat – male and female – 4 h – 16.8 mg/l (Trimethoxyvinylsilane)

(OECD Test Guideline 403)

LD50 Dermal – Rabbit – male and female – 3,600 – 4,000 mg/kg (Trimethoxyvinylsilane)

(OECD Test Guideline 402)

### Skin corrosion/irritation

Skin - Rabbit (Trimethoxyvinylsilane)

Result: No Skin Irritation

### Serious eye damage/eye irritation

Eyes - Rabbit (Trimethoxyvinylsilane)

Result: No Eye Irritation (OECD Test Guideline 405)

# Respiratory or skin sensitization

Maximization Test – Guinea Pig (Trimethoxyvinylsilane)

Result: Did not cause sensitization on laboratory animals.

(OECD Test Guideline 406)

# Germ cell mutagenicity

Mammal (Trimethoxyvinylsilane)

Ovary

Result: Negative

Trimethoxyvinylsilane

Mouse - male and female

Result: negative



### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

### Reproductive toxicity

No data available

### Specific target organ toxicity - single exposure

Inhalation - May cause respiratory irriation

# Specific target orgtoxicity - repeated exposure

no data available

### **Aspiration hazard**

no data available

### Potential health effects

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.

**Ingestion** May be harmful if swallowed.

**Skin** Harmful if absorbed through skin. Causes skin irritation.

**Eyes** Causes serious eye irritation.

#### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### **Additional Information**

RTECS: Not Available

### **SECTION 12: ECOLOGICAL INFORMATION**

### 12.1 Toxicity

Toxicity to fish LC50 – Oncorhynchus mykiss (Rainbow Trout) - 191 mg/l – 96h

(Trimethoxyvinylsilane)

Toxicity to daphnia and other static test EC50 - Daphnia magna (Water flea) - 168.7 mg/l - 48h

aquatic invertebrates (Trimethoxyvinylsilane)

12.2 Persistence and degradability

Biodegradability aerobic – Exposure time 28d (Trimethoxyvinylsilane)

Result: 51% - Not readily biodegradable.

(OECD Test Guideline 301)

# 12.3 Bioaccumulative potential

no data available

### 12.4 Mobility in soil

no data available

### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Other adverse effects

no data available

# **SECTION 13: DISPOSAL CONSIDERATIONS**

#### 13.1 Waste treatment methods

#### Product

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus

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and non-recyclable solutions to a licensed disposal company.

### Contaminated packaging

Dispose of as unused product.

#### **SECTION 14: TRANSPORT INFORMATION**

14.1 UN number

ADR/RID:1993 IMDG: 1993 IATA: 1993

14.2 UN proper shipping name

ADR/RID: FLAMMABLE LIQUID, N.O.S. (Vinyltrimethoxysilane) IMDG:FLAMMABLE LIQUID, N.O.S. (Vinyltrimethoxysilane) IATA: Flammable liquid, n.o.s. (Vinyltrimethoxysilane)

14.3 Transport hazard class(es)

ADR/RID: 3 IMDG: 3 IATA: 3

14.4 Packaging group

ADR/RID: III IMDG: III IATA: III

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

no data available

### **SECTION 15: REGULATORY INFORMATION**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006

15.1 Safety, Health and environmental regulations/legislation specific for substance or mixture

no data available

15.2 Chemical Safety Assessment

no data available

### **SECTION 16: OTHER INFORMATION**

This data is offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is made. The recommended handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use.

This SDS was prepared sincerely on the basis of the information we could obtain, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. Products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

This SDS is compliant with the GHS requirements outlined at http://www.ccohs.ca/oshanswers/chemicals/whmis\_ghs/sds.html

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