

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 6.0 Revision Date 31.03.2016

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GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifiers

Product name : Vinyltrimethoxysilane

CAS-No. : 2768-02-7

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

Company : Nanjing Chemical Material Corp.  
No.5 New Model Rd, Nanjing 210009, ChinaTelephone : +86 25 52337978  
Fax : +86 25-8330450  
Web : www.njchm.com

### 1.4 Emergency telephone number

Emergency Phone # : +86 25 52337978

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008

Flammable liquids (Category 2), H225

Acute toxicity, Inhalation (Category 4), H332

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 2.2 Label elements

#### Labelling according Regulation (EC) No 1272/2008

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.

Supplemental Hazard Statements none

### 2.3 Other hazards - none

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Synonyms : Trimethoxy(vinyl)silane  
 (Trimethoxysilyl)ethylene  
 Ethenyltrimethoxysilane

Formula : C<SB>5</SB>H<SB>12</SB>O<SB>3</SB>Si  
 Molecular weight : 148.23 g/mol  
 CAS-No. : 2768-02-7  
 EC-No. : 220-449-8

#### Hazardous ingredients according to Regulation (EC) No 1272/2008

Component	Classification	Concentration
<b>Trimethoxyvinylsilane</b>		
CAS-No. 2768-02-7 EC-No. 220-449-8	Flam. Liq. 2; Acute Tox. 4; H225, H332	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 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

Flush eyes with water as a precaution.

#### If swallowed

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

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

- 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 firefighting if necessary.
- 5.4 Further information**  
Use water spray to cool unopened containers.

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**SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures**  
Use personal protective equipment. Avoid breathing vapours, 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.  
For personal protection see section 8.
- 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).
- 6.4 Reference to other sections**  
For disposal see section 13.

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**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.  
For precautions see section 2.2.
- 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.  
Storage class (TRGS 510): Flammable Liquids
- 7.3 Specific end use(s)**  
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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**SECTION 8: Exposure controls/personal protection**

- 8.1 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**  
Face shield and safety glasses 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.
- The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Body Protection**

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., 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 (US) or type ABEK (EN 14387) respirator cartridges as a backup to enginee 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).

**Control of environmental exposure**

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

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

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|---|---|
| a) Appearance                                   | Form: liquid<br>Colour: light yellow              |
| b) Odour  | No data available                                 |
| c) Odour Threshold                              | No data available                                 |
| d) pH   | No data available                                 |
| e) Melting point/freezing point                 | Melting point/freezing point: -97 °C at 101.3 hPa |
| f) Initial boiling point and boiling range      | 123 °C - lit.                                     |
| g) Flash point                                  | 22 °C - closed cup                                |
| h) Evaporation rate                             | No data available                                 |
| i) Flammability (solid, gas)                    | No data available                                 |
| j) Upper/lower flammability or explosive limits | No data available                                 |
| k) Vapour pressure                              | 11.9 hPa at 20 °C                                 |
| l) Vapour density                               | No data available                                 |
| m) Relative density                             | 0.968 g/cm <sup>3</sup> at 25 °C                  |
| n) Water solubility                             | No data available                                 |
| o) Partition coefficient: n-octanol/water       | No data available                                 |
| p) Auto-ignition temperature                    | 224 °C<br>at 101.3 hPa                            |
| q) Decomposition temperature                    | No data available                                 |
| r) Viscosity                                    | No data available                                 |
| s) Explosive properties                         | No data available                                 |
| t) Oxidizing properties                         | No data available                                 |

**9.2 Other safety information**

No data available

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**SECTION 10: Stability and reactivity****10.1 Reactivity**

No data available

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

No data available

**10.4 Conditions to avoid**

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

**10.5 Incompatible materials**

Strong oxidizing agents, Strong acids

**10.6 Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, silicon oxides

Other decomposition products - No data available

In the event of fire: see section 5

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**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 sensitisation**

Maximisation Test - Guinea pig(Trimethoxyvinylsilane)

Result: Did not cause sensitisation on laboratory animals.

(OECD Test Guideline 406)

**Germ cell mutagenicity**

Mammal(Trimethoxyvinylsilane)

ovary

Result: negative

(Trimethoxyvinylsilane)

Mouse - male and female

Result: negative

**Carcinogenicity**

No data available(Trimethoxyvinylsilane)

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(Trimethoxyvinylsilane)

**Specific target organ toxicity - single exposure**

No data available(Trimethoxyvinylsilane)

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available(Trimethoxyvinylsilane)

**Additional Information**

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated., Material may form a siloxane polymer on the skin, eyes, or in the lungs. I tissues, seek medical attention.(Trimethoxyvinylsilane)

**SECTION 12: Ecological information****12.1 Toxicity**

Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 191 mg/l - 96 h(Trimethoxyvinylsilane)

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

**12.2 Persistence and degradability**

Biodegradability aerobic - Exposure time 28 d(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(Trimethoxyvinylsilane)

**12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**12.6 Other adverse effects**

No data available

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus 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. (Trimethoxyvinylsilane)

IMDG: FLAMMABLE LIQUID, N.O.S. (Trimethoxyvinylsilane)

IATA: Flammable liquid, n.o.s. (Trimethoxyvinylsilane)

<b>14.3 Transport hazard class(es)</b> ADR/RID: 3	IMDG: 3	IATA: 3
<b>14.4 Packaging group</b> ADR/RID: II	IMDG: II	IATA: II
<b>14.5 Environmental hazards</b> ADR/RID: no	IMDG Marine pollutant: no	IATA: no
<b>14.6 Special precautions for user</b> No data available		

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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

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

**15.2 Chemical safety assessment**

For this product a chemical safety assessment was not carried out

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**SECTION 16: Other information****Full text of H-Statements referred to under sections 2 and 3.**

H225	Highly flammable liquid and vapour.
H332	Harmful if inhaled.

