

# MATERIAL SAFETY DATA SHEET

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

### 15.1 Product identifiers

Product name : Triethoxymethylsilane

REACH No. : A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

CAS-No. : 2031-67-6

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

Identified uses : Laboratory chemicals, Manufacture of substances

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

Company: DALIAN HEFU TRADING CO., LTD.  
ROOM 1003 YIHUA BUILDING, NO. 215 HUANGHAI  
XISI ROAD, DALIAN F.T.Z. LIAONING PROVINCE CHINA.

TEL: 86-411-39552835  
FAX: 86-411-39266880

### 15.4 Emergency telephone number

Emergency Phone # 86-411-39552835

## SECTION 2: Hazards identification

### 14.1 Classification of the substance or mixture

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

Flammable liquids (Category 3), H226

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

**Classification according to EU Directives 67/548/EEC or 1999/45/EC**  
R10

For the full text of the R-phrases mentioned in this Section, see Section 16.

### 14.2 Label elements

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

Pictogram



Signal word : Warning

Hazard statement(s)  
H226 : Flammable liquid and vapour.

Precautionary statement(s) : none

Supplemental Hazard : none

Statements

#### 14.3 Other hazards - none

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### SECTION 3: Composition/information on ingredients

#### 3. Substances

1	Synonyms	:	Methyltriethoxysilane
	Formula	:	C <sub>7</sub> H <sub>18</sub> O <sub>3</sub> Si
	Molecular Weight	:	178,30 g/mol
	CAS-No.	:	2031-67-6
	EC-No.	:	217-983-9

No components need to be disclosed according to the applicable regulations.

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16

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### SECTION 4: First aid measures

#### 12.1 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.

#### 12.2 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

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

no data available

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### SECTION 5: Firefighting measures

#### 10.1 Extinguishing media

##### Suitable extinguishing media

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far 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.

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

Carbon oxides, silicon oxides

#### 10.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### 10.4 Further information

Use water spray to cool unopened containers.

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## SECTION 6: Accidental release measures

### 9.1 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. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

### 9.2 Environmental precautions

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

### 9.3 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).

### 9.4 Reference to other sections

For disposal see section 13.

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## SECTION 7: Handling and storage

### 8.1 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.

### 8.2 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. Store under inert gas.

### 8.3 Specific end use(s)

A part from the uses mentioned in section 1.2 no other specific uses are stipulated

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## SECTION 8: Exposure controls/personal protection

### 7.1 Control parameters

#### Components with workplace control parameters

### 7.2 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.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,4 mm

Break through time: 480 min

Material tested: Camatril® (KCL 730 / Aldrich Z677442, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,4 mm

Break through time: 480 min

Material tested: Camatril® (KCL 730 / Aldrich Z677442, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de,  
test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### **Body Protection**

impervious clothing, 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 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).

#### **Control of environmental exposure**

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

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## **SECTION 9: Physical and chemical properties**

### **6.1 Information on basic physical and chemical properties**

- Appearance Form: clear, liquid  
Colour: colourless
- Odour no data available
- Odour Threshold no data available
- pH no data available
- Melting point/freezing point no data available
- Initial boiling point and boiling range 141 - 143 °C - lit.
- Flash point 23 °C - closed cup
- Evaporation rate no data available
- Flammability (solid, gas) no data available
- Upper/lower flammability or explosive limits no data available
- Vapour pressure 15 hPa at 20 °C
- Vapour density 6,16 - (Air = 1.0)
- Relative density 0,895 g/mL at 25 °C
- Water solubility no data available
- Partition coefficient: n-octanol/water no data available
- Auto-ignition temperature no data available

- Decomposition temperature no data available
- Viscosity no data available
- Explosive properties no data available
- Oxidizing properties no data available

## 6.2 Other safety information

Relative vapour density 6,16 - (Air = 1.0)

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## SECTION 10: Stability and reactivity

### 5.1 Reactivity

no data available

### 5.2 Chemical stability

Stable under recommended storage conditions.

### 5.3 Possibility of hazardous reactions

no data available

### 5.4 Conditions to avoid

Heat, flames and sparks.

### 5.5 Incompatible materials

Strong oxidizing agents, Strong acids

### 5.6 Hazardous decomposition products

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

LD50 Oral - rat - 7.584 mg/kg

Remarks: Behavioral:Somnolence (general depressed activity). Gastrointestinal:Changes in structure or function of salivary glands. Gastrointestinal:Other changes.

LD50 Dermal - rabbit - 11.904 mg/kg

Remarks: Behavioral:Somnolence (general depressed activity). Behavioral:Ataxia. Lungs, Thorax, or Respiration:Other changes.

#### Skin corrosion/irritation

Skin - rabbit

Result: Mild skin irritation - 24 h

#### Serious eye damage/eye irritation

Eyes - rabbit

Result: Mild eye irritation

#### Respiratory or skin sensitisation

no data available

#### Germ cell mutagenicity

no data available

#### 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

no data available

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

no data available

**Additional Information**

RTECS: VV4640000

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**SECTION 12: Ecological information****4.1 Toxicity**

no data available

**4.2 Persistence and degradability**

no data available

**4.3 Bioaccumulative potential**

no data available

**4.4 Mobility in soil**

no data available

**4.5 Results of PBT and vPvB assessment**

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

**4.6 Other adverse effects**

no data available

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

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging**

Dispose of as unused product.

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**SECTION 14: Transport information****2.1 UN number**

ADR/RID: 1993

IMDG: 1993

IATA: 1993

**2.2 UN proper shipping name**

ADR/RID: FLAMMABLE LIQUID, N.O.S. (Triethoxy(methyl)silane)

IMDG: FLAMMABLE LIQUID, N.O.S. (Triethoxy(methyl)silane)

IATA: Flammable liquid, n.o.s. (Triethoxy(methyl)silane)

**14. Transport hazard class(es)****3** ADR/RID: 3

IMDG: 3

IATA: 3

**14. Packaging group****4** ADR/RID: III

IMDG: III

IATA: III

**14. Environmental hazards****5** ADR/RID: no

IMDG Marine pollutant: no

IATA: no

**14. Special precautions for user****6** no data available

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**SECTION 15: Regulatory information**

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

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

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no data available

**1.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out

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