

## SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006

Version 5.0 Revision Date 15.07.2012

### Section 1 - Identification of the material and supplier

#### 1.1 Product identifier

Product name 3-(Methacryloyloxy)propyltrimethoxysilane  
Product Number CG-O174  
CAS No. 2530-85-0

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

Industrial.  
Intermediate chemical

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

Manufacturer: Qufu Chenguang Chemical Co.,Ltd  
Address: Xizou county, Qufu, Shandong, 273100, China  
Telephone: +86 537 5052266  
Fax: +86 537 5052166  
E-Mail: info@silanechem.com

#### 1.4 Emergency telephone number

Emergency response service: +86 537 4631088

### Section 2 - Hazards identification

#### 2.1 Classification of the substance or mixture

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

Eye irritation (Category 2)  
Specific target organ toxicity - single exposure (Category 3)  
Skin irritation (Category 2)

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

Irritating to eyes  
respiratory system and skin

#### 2.2 Label elements

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

Pictogram



Signal word :

Warning

##### Hazard statement(s)

H315 Causes skin irritation.

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H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

**Precautionary statement(s)**

P261 Avoid breathing vapours.  
IF IN EYES: Rinse cautiously with water for several minutes.  
P305 + P351 + P338 Remove contact lenses, if present and easy to do. Continue rinsing.

**According to European Directive 67/548/EEC as amended.**

Hazard symbol(s) 

R-phrase(s)  
R36/37/38 Irritating to eyes, respiratory system and skin.

S-phrase(s)  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S28 After contact with skin, wash immediately with plenty of soap

**2.3 Other hazards** - none**Section 3 - Composition/information on ingredients****3.1 Substances**

Synonyms: 3-(Trimethoxysilyl)propyl methacrylate  
Formula  $C_{10}H_{20}O_5Si$   
Molecular Weight 248.35 g/mol

Component	Concentration
3-(Methacryloyloxy)propyltrimethoxysilane	
CAS-No. 2530-85-0	
EC-No. 219-785-8	-

**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****Qufu Chenguang Chemical Co., Ltd**

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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 - 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, nitrogen oxides (NO<sub>x</sub>), 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.

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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

Appearance	Colourless liquid
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting point/freezing	no data available
Initial boiling point and	190 °C - lit.
Flash point	92 °C - closed cup
Evaporation rate	no data available
Flammability (solid, gas)	no data available
Upper/lower flammability or	Upper explosion limit: 5.4 %(V)

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explosive limits	Lower explosion limit: 0.9 %(V)
Vapour pressure	1 hPa at 20 °C
Vapour density	8.57 - (Air = 1.0)
Relative density	1.045 g/cm <sup>3</sup> at 25 °C
Water solubility	soluble
Partition coefficient: noctanol/ water	no data available
Autoignition temperature	no data available
Decomposition temperature	no data available
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

Heat, flames and sparks.

### 10.5 Incompatible materials

Strong acids, Strong oxidizing agents, Water, Bases, Alcohols, Peroxides

### 10.6 Hazardous decomposition products

Other decomposition products - no data available

## Section 11 - Toxicological Information

### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral - rat - 23617 mg/kg

#### Skin corrosion/irritation

#### Serious eye damage/eye irritation

Eyes - rabbit - Severe eye irritation

#### Respiratory or skin sensitization

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.

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**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure**

no data available

**Specific target orgtoxicity - repeated exposure**

no data available

**Aspiration hazard**

no data available

**Potential health effects****Inhalation**

May be harmful if inhaled. Causes respiratory tract irritation.

**Ingestion**

May be harmful if swallowed.

**Skin**

May be harmful if absorbed through skin. Causes skin irritation.

**Eyes**

Causes 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: UC0230000

**Section 12 - Ecological Information****12.1 Toxicity**

Toxicity to fish

LC50 - Danio rerio (zebra fish) - &gt; 1.042 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates

EC50 - Daphnia magna (Water flea) - &gt; 876 mg/l - 48 h

Toxicity to algae

IC50 - Desmodesmus subspicatus (green algae) - &gt; 536 mg/l - 72 h

**12.2 Persistence and degradability**

no data available

**12.3 Bioaccumulative potential**

no data available

**12.4 Mobility in soil**

no data available

**12.5 Results of PBT and vPvB assessment**

no data available

**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 and non-recyclable solutions to a licensed disposal company.

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