

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION
1.1 Product identifier

Product name: 3-methacryloxypropyltriethoxysilane
 Product Number: SC-4200
 CAS No. 21142-29-0

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

Recommended use: Industrial 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
GHS classification
PHYSICAL HAZARDS Not classified

Skin corrosion/irritation Category 2
 Serious eye damage/eye irritation Category 2

2.2 Label elements
Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram: None
 Signal word : Warning

Hazard statement(s)

H315 Causes skin irritation.
 H319 Causes serious eye irritation.

Precautionary statement(s)

P264 Wash hands thoroughly after handling.
 P280 Wear protective gloves/eye protection/face protection.

2.3 Other hazards – May cause polymerization.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance/Mixture: Substance
 Synonyms: Triethoxy(3-methacryloyloxypropyl)silane,
 Methacrylic Acid 3-(Triethoxysilyl)propyl Ester
 Formula: $C_{13}H_{26}O_5Si$
 Molecular Weight: 148.23 g/mol

Component	Concentration
3-(Triethoxysilyl)propyl Methacrylate	>98.0%(GC)
CAS-No. 21142-29-0	
EC-No. 244-239-0	

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:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
- In case of skin contact:** Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
- In case of eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- If swallowed:** Get medical advice/attention if you feel unwell. Rinse mouth.
- Protection of first-aiders:** A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

SECTION 5: FIRE-FIGHTING MEASURES**5.1 Extinguishing media**

- Suitable extinguishing media:** Dry chemical, foam, carbon dioxide
- Unsuitable extinguishing media:** Water (It may scatter and spread fire.)

5.2 Special hazards arising from the substance or mixture:

This substance may polymerize explosively when heated or involved in a fire. Container may explode when heated. Combat fire from a sheltered position.

Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.

5.3 Advice for firefighters

Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Keep containers cool by spraying with water. Eliminate all ignition sources if safe to do so.

5.4 Special protective equipment for firefighters:

When extinguishing fire, be sure to wear personal protective equipment.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

6.2 Environmental precautions

Prevent product from entering drains.

6.3 Methods and materials for containment and cleaning up

Absorb spilled material in dry sand or inert absorbent before recovering it into a covered container. In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: HANDLING AND STORAGE**7.1 Precautions for safe handling**

Handle should be performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapor or mist. Wash hands and face thoroughly after handling. Use a ventilation, local exhaust if vapor or aerosol will be generated.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a cool and dark place.

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

Install a closed system or local exhaust as possible so that workers should not be exposed directly. Also install safety shower and eye bath.

Personal protective equipment
Respiratory protection

Vapor respirator. Follow local and national regulations.

Hand protection

Protective 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.

Eye/face protection

Safety glasses. A face-shield, if the situation requires.

Skin and body Protection

Protective clothing. Protective boots, if the situation requires.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES
9.1 Information on basic physical and chemical properties

Physical State:	Liquid
Form:	Clear
Appearance	Colorless - Slightly pale yellow
Odour	no data available
pH	no data available
Melting point/freezing Point	no data available
Boiling point/range	112°C/0.7kPa
Flash point	116°C
Evaporation rate	no data available
Flammability or explosive limits	
Lower:	no data available
Upper:	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	0.99
Solubility(ies):	
[Water]	No data available
[Other Solvents]	No data available

9.2 Other safety information

no data available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No special reactivity has been reported.

10.2 Chemical stability

Polymerization may occur under the influences of heat, light or on contact with polymerization initiators such as peroxides etc.

10.3 Possibility of hazardous reactions

No special reactivity has been reported.

10.4 Conditions to avoid

Heat, Light

10.5 Incompatible materials

Oxidizing agents, Strong acids, Strong bases

10.6 Hazardous decomposition products

Carbon monoxide, Carbon dioxide, Silicon oxides

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity:	No data available
Skin corrosion/irritation:	No data available
Serious eye damage/irritation:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	
IARC =	No data available
NTP =	No data available
Reproductive toxicity:	No data available

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

no data available

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

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** Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

Contaminated packaging

Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION**14.1 UN number**

Not listed

14.2 UN proper shipping name

Does not correspond to the classification standard of the United Nations

14.3 Transport hazard class(es)

Does not correspond to the classification standard of the United Nations

14.4 Packaging group

Does not correspond to the classification standard of the United Nations

14.5 Environmental hazards

Does not correspond to the classification standard of the United Nations

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

Indication of danger: Xi - Irritant

In accordance with local and national regulations

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

S-phrases) S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36 - Wear suitable protective clothing.

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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