SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product Number: SC-1220

Chemical name: N-(β-AMINO ETHYL)-γ-AMINOPROPYLMETHYDIMETHOXYSILANE

CAS No.: 3069-29-2

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

Manufactured/Supplied by Silsource Inc.

ADDRESS: 240 Mary Street, Port Perry, ON L9L 1B7

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]

Skin sensitization	Category 2
Serious eye damage/irritation	Category 1

2.2 Label elements

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

Pictogram

Signal word : Danger

Hazard statement(s)

H227	Flammable liquid
H317	May cause an allergic skin reaction.
H318	Causes severe eye irritation

Precautionary statement(s)

P261	Avoid breathe dust/ fume/ gas/ mist/ vapours/ spray.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.

Reaction statement(s)

P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/ physician.

2.3 Other hazards not contributing to the classification

None

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Chemical Name	CAS-No.
N-(β-AMINO ETHYL)-γ-AMINOPROPYLMETHYDIMETHOXYSILANE	3069-29-2

3.2 Hazardous Ingredients

Chemical Name	CAS no.	Concentration
N-(β-AMINO ETHYL)-γ-AMINOPROPYLMETHYDIMETHOXYSILANE	3069-29-2	≥ 97.0%
METHANOL	67-56-1	≤ 3.0%

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

Remove contaminated clothing and shoes immediately. 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.

Indication of any immediate medical attention and special treatment needed

no data available

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Flash point is over 100℃ (Test method: closed cup).

Suitable extinguishing media

Use dry powder or foam in large fires and carbon dioxide, dry powder, and sand in small fires. Water can be used to cool containers affected by the fire.

5.2 Special hazards arising from the substance or mixture

Be careful, it may decompose under fire or high temperature to produce toxic fumes.

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Under fire conditions, material may decompose to form flammable and/or explosive mixtures in air. 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 vapors accumulating to form explosive concentrations. Vapors 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). 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

Use best in a well-ventilated area. During use, it is necessary to control the exposure of methanol and use air-supply or self-contained breathing apparatus to provide ventilation. Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition. **No smoking**. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment.

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. Store under inert gas. Moisture sensitive.

7.3 Specific end uses

Apart from the uses mentioned in section 1 no other specific uses are stipulated

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Maximum allowable concentration

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8.2 Exposure controls

Appropriate engineering controls

Provide safety shower and eyewash equipment. 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. Wear protective boots

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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state/form:	Liquid
Colour:	Colorless
pH:	10.5 @ 25°C (10g/l H_2O)
Boiling point:	265°C at 760mmHg
Melting point:	no data available
Flash point:	>100°C (tag closed cup)
Refractive Index:	no data available
Ignition temperature:	no data available
Oxidizing properties:	No
Upper explosion limit:	no data available
Lower explosion limit:	no data available
Vapour pressure:	no data available
Vapor density:	No data available
Density/relative density:	0.968 g/cm^3 (20°C)
Solubility:	no data available
Heat of combustion:	no data available
Viscosity (dynamic):	no data available

9.2 Other information:

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

Materials to avoid:	Incompatible materials, sources of ignition, excess heat, exposure to moist air.
Hazardous polymerization:	Polymerization may occur in the presence of water, strong acid[s] and/or heat.
10.4 Conditions to avoid:	Heat, flames and sparks.
10.5 Incompatible materials:	Strong oxidizing agents, Acids
10.6 Hazardous thermal decomposition:	carbon oxides and incompletely burned carbon compounds, ethanol, nitrogen oxides, silicon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Route of exposure: inhalation, skin contact and ingestion

11.2 Signs and symptoms of excessive exposure:

Harmful if inhaled. May be harmful if swallowed. Causes serious eye damage. May cause skin irritation. May cause an allergic skin reaction.

11.3 Acute toxicity

chemical name	CAS no.	LD50 (Oral)	LD50 (Dermal)	LC50 (inhalation)
N-(β-AMINO ETHYL)-γ-AMINOPROPYLMETHYDIMETHOXYSILANE	3069-29-2	>2000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	5.2 mg/l (Rat)

Potential health implications

Inhalation: May be harmful if inhaled. May cause respiratory irritation.

Ingestion: May be harmful if swallowed.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

11.4 Chronic toxicity

Organosilicon compounds are generally low in toxicity.

11.5 Other health hazards information

This material may release methanol in contact with moisture or moist air. Excessive methanol can lead to blindness and neurological effects.

Toxicity registration of chemicals: vv6770000

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Fish: LC50 597 mg / l Test time: 96 hours Brachydanio rerio

Toxicity to daphnia and other aquatic invertebrates: EC50 81 mg/l Test time: 48 hours Daphnia magna

Algae: EC50 8.8 mg/l Test time: 72 hours Pseudokirchneriella subcapitata

12.2 Persistence and degradability

This product hydrolyzes in water or humid air to release methanol and organic silicon compounds

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

Other adverse effects

no data available

12.5 Additional information

Even in the case of professional handling or disposal, environmental hazards cannot be ruled out.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product: Dispose of properly in accordance with local regulations

Contaminated packaging: Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

14.1 This product is not classified as dangerous by UN, IATA, IMDG

UN number

ADR/RID: -- IMDG: -- IATA: --

14.2 UN proper shipping name

ADR/RID: --

IMDG: --

IATA: --

14.3 Transport hazard class(es)

ADR/RID: -- IMDG: -- IATA: --

14.4 Packaging group

ADR/RID: -- IMDG: -- IATA: --

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 the substance or mixture

no data available

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

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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