SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 PRODUCT NAME: SC-522

CHEMICAL NAME/FAMILY: Dimethoxydimethylsilane
1.2 IDENTIFIED USE: CHEMICAL FOR SYNTHESIS

1.3 MANUFACTURER: Manufactured/Supplied by Silsource Inc.
ADDRESS: 240 Mary Street, Port Perry, Ontario, L9L 1B7

1.4 CHEMICAL EMERGENCY ONLY (PHONE): CANUTEC [24 Hr.] CANADA 888-226-8832 or 613-996-6666

CHEMTREC [24 Hr.] USA 1-800-262-8200

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Physical hazardsFlammable liquidsCategory 2Health hazardsSerious eye damage/eye irritationCategory 2A

OSHA defined hazards Not classified.

2.2 Label elements

GHS Labelling

Pictogram





Signal word: Danger

Hazard statement(s)
Precautionary statement(s)

Precautionary statement(s
Prevention

Highly flammable liquid and vapor. Causes serious eye irritation.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash thoroughly after handling. Wear protective

gloves/eye protection/face protection.

Response

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention. In case of fire: Use appropriate media to extinguish.

Storage Store in a well-ventilated place. Keep cool.

Disposal Dispose of contents/container in accordance with local/regional/national/international

regulations.

2.3 Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information

None.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

| Substance name | CAS number | Concentration (%) | | |
|-------------------------|------------|-------------------|--|--|
| Dimethoxydimethylsilane | 1112-39-6 | > 99.0 | | |
| Methanol | 67-56-1 | < 1.0 | | |

3.2 Mixtures Not Relevant

SECTION 4: FIRST AID MEASURES

- **4.1 First-aid measures after eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
- **4.2. First-aid measures after skin contact** Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists.
- 4.3. First-aid measures after inhalation
 4.4. First-aid measures after ingestion
 Move to fresh air. Call a physician if symptoms develop or persist.
 Rinse mouth. Call a poison center or a doctor if you feel unwell.
- **4.5 Most important symptoms/effects,** acute and delayed Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.



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4.6 Indication of immediate medical Attention and special treatment Needed

General information

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed. Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Suitable extinguishing media: Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Note: Water sprayed on burning material may generate methanol. Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During

fire, gases hazardous to health may be formed.

5.3 Special protective equipment and precautions

Special hazards arising from the chemical:

for firefighters:

Self-contained breathing apparatus and full protective clothing must be

worn in case of fire.

5.4 Firefighting equipment/instructions: In case of fire and/or explosion do not breathe fumes. Move containers

from fire area if you can do so without risk.

Specific methods: 5.5

5.2

Use standard firefighting procedures and consider the hazards of other

involved materials.

5.6 General fire hazards: Highly flammable liquid and vapor.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

6.2 Environmental precautions: Avoid discharge into drains, water courses or onto the ground. Methods and materials for 6.3

containment and cleaning up:

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water. Small Spills: Absorb with earth, sand or other non-combustible material and transfer to Containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

6.4 Reference to other sections: For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid contact with eyes. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

7.2 Conditions for safe storage, including any incompatibilities Keep away from heat, sparks and open flame. Prevent electrostatic charge buildup by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

| 0.4 | A | | 1:00:40 |
|------|----------|---------------|----------|
| O. I | Occubanc | onal exposure | IIIIIIII |

| US. | OSHA | Table | Z-1 | Limits | for | Air | Contaminants | (29 | CFR | 1910.10 | 000) |
|-----|------|-------|-----|--------|-----|-----|--------------|-----|-----|---------|------|
|-----|------|-------|-----|--------|-----|-----|--------------|-----|-----|---------|------|

| Components | Tyne | Value |
|-------------------------|-----------|-----------|
| US. ACGIH Threshold Lim | it Values | |
| | | 200 ppm |
| Methanol (CAS 67-56-1) | PEL | 260 mg/m3 |
| Components | туре | value |

STEL Methanol (CAS 67-56-1) 250 ppm TWA 200 ppm US. NIOSH: Pocket Guide to Chemical Hazards

Components Value Type Methanol (CAS 67-56-1) 325 mg/m3 **STEL** 250 ppm

TWA

260 mg/m3 200 ppm

8.2 Biological limit values

ACGIH Biological Exposure Indices

Value Components **Determinant** Sampling Time Specimen Methanol (CAS 67-56-1) 15 mg/l Methanol Urine

* - For sampling details, please see the source document.

8.3 Exposure guidelines

US - California OELs: Skin designation

Methanol (CAS 67-56-1) Can be absorbed through the skin

US - Minnesota Haz Subs: Skin designation applies

Methanol (CAS 67-56-1) Skin designation applies.

US - Tennessee OELs: Skin designation

Methanol (CAS 67-56-1) **US ACGIH Threshold Limit Values: Skin designation**

Can be absorbed through the skin.

Methanol (CAS 67-56-1)

US. NIOSH: Pocket Guide to Chemical Hazards

Methanol (CAS 67-56-1) Can be absorbed through the skin.

Explosion-proof general and local exhaust ventilation. Good general ventilation 8.4 Appropriate engineering

Controls: (typically 10 air changes per hour) should be used. Ventilation rates should be matched to

conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station. Eye wash fountain and emergency showers are recommended.

8.5 Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the

Can be absorbed through the skin.

glove supplier.

Skin protection

Other Wear suitable protective clothing.

If engineering controls do not maintain airborne concentrations below recommended Respiratory protection

exposure limits (where applicable) or to an acceptable level (in countries where exposure

limits have not been established), an approved respirator must be worn.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

8.6 General hygiene When using do not smoke. Always observe good personal hygiene measures, such as Considerations:

washing after handling the material and before eating, drinking, and/or smoking. Routinely

wash work clothing and protective equipment to remove contaminants.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Odour

Physical state Liquid Liquid Form Colour Not Available. Not Available. **Odour Threshold** Not Available. Not Available.

Melting point/freezing point -112°F / -80°C Initial Boiling point and 179.6°F / 82 °C

boiling range



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Flash point 17.6°F / -8.0°C **Evaporation rate** < 1 (Butyl Acetate = 1) Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower Not available.

Flammability limit – upper

Not available.

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Vapour pressure Not available.

Vapour density >1 (25°C) (Air =1) Relative density 0.865

Solubility(ies) Solubility (water) Reacts **Partition Coefficient** Not available.

(n-Octanol/water)

Auto-ignition temperature Not available. **Decomposition temperature** Not available. Not available. Viscosity

9.2 Other safety information

Explosive properties Not explosive. Oxidizing properties Not oxidizina.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: Material reacts slowly with water.

Chemical Stability: Material is stable under normal conditions 10.2

Possibility of hazardous 10.3 No dangerous reaction known under conditions of normal use.

Reactions:

10.4 Conditions to avoid: Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures

exceeding the flash point. Contact with incompatible materials.

10.3 Incompatible materials Strong oxidizing agents.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products 10.6

are not known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on exposure routes

> Ingestion: Expected to be a low ingestion hazard.

Skin contact: No adverse effects due to skin contact are expected.

Inhalation: Prolonged inhalation may be harmful.

Eye contact: Causes serious eye irritation.

11.2 Symptoms related to the Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling,

and blurred vision. physical, chemical and

toxicological characteristics:

11.3 Information on toxicological effects

Acute toxicity

Components Species **Test Results**

Dimethoxydimethylsilane (CAS 1112-39-6)

Acute

Inhalation

LC50 Rat 21.35 mg/l, 4 hours

Oral LD50 Rat 2554 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye Causes serious eye irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

No data available to indicate product or any components present at greater than Germ cell mutagenicity

0.1% are mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or

OSHA

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

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NTP Report on Carcinogens

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Reproductive toxicity Specific target organ toxicity - This product is not expected to cause reproductive or developmental effects.

Not classified.

single exposure

Specific target organ toxicity -

Not classified.

Aspiration hazard

Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

SECTION 12: ECOLOGICAL INFORMATION

12.1 **Ecotoxicity:** The product is not classified as environmentally hazardous. However, this does not

exclude the possibility that large or frequent spills can have a harmful or damaging

effect on the environment.

Components **Species Test Results**

Methanol (CAS 67-56-1)

Aquatic

Acute

Crustacea EC50 Daphnia magna > 10000 mg/l, 48 hours Fish LC50 Bluegill (Lepomis macrochirus) 15400 mg/l, 96 hours

12.2. Persistence and degradability: No data is available on the degradability of this product.

12.3. Bioaccumulative potential:

Partition coefficient n-octanol / water (log Kow)

Methanol (CAS 67-56-1) -0.77

12.4. Mobility in soil: No data available

12.5. Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone

creation potential, endocrine disruption, global warming potential) are expected from this

component.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose Disposal instructions:

Of contents/container in accordance with local/regional/national/international regulations.

Dispose in accordance with all applicable regulations. 13.2 Local disposal regulations:

The waste code should be assigned in discussion between the user, the producer and the 13.3 Hazardous waste code:

waste disposal company.

Dispose of in accordance with local regulations. Empty containers or liners may retain 13.4 Waste from residues / Unused products:

some product residues. This material and its container must be disposed of in a safe

manner (see: Disposal instructions).

Contaminated packaging: Since emptied containers may retain product residue, follow label warnings even after 13.5

container is emptied. Empty containers should be taken to an approved waste handling site

for recycling or disposal.

SECTION 14: TRANSPORT INFORMATION

14 1 DOT

UN number: UN1993

UN proper shipping name: Flammable liquids, n.o.s. (Dimethoxydimethylsilane)

Transport hazard class(es):

Class 3 Subsidiary risk Label(s) 3 Ш

Packing group:

Special precautions for user: Read safety instructions, SDS and emergency procedures before handling.

Special provisions: IB2, T7, TP1, TP8, TP28

Packaging exceptions: 150 Packaging non bulk: 202 Packaging bulk: 242

IATA

UN number: UN1993

UN proper shipping name: Flammable liquid, n.o.s. (Dimethoxydimethylsilane)

Transport hazard class(es):

Class 3 Subsidiary risk

Ш Packing group:

Environmental hazards: ERG Code: 3H

Special precautions for user: Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number UN1993

UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (DIMETHOXYDIMETHYLSILANE)

Not established.

Transport hazard class(es)

Class Subsidiary risk П

Packing group: **Environmental hazards**

Marine pollutant: No.

Read safety instructions, SDS and emergency procedures before handling. Special precautions for user:

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code:

SECTION 15: REGULATORY INFORMATION

US federal regulations: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are listed on or exempt from the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Methanol (CAS 67-56-1) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard Yes Delayed Hazard No Fire Hazard -Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

SARA 313 (TRI reporting)

Chemical name **CAS** number % by wt. Methanol 67-56-1

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Methanol (CAS 67-56-1)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act: Not regulated. (SDWA)

US state regulations

US. Massachusetts RTK - Substance List

Methanol (CAS 67-56-1)

US. New Jersey Worker and Community Right-to-Know Act

Methanol (CAS 67-56-1)

US. Pennsylvania Worker and Community Right-to-Know Law

Methanol (CAS 67-56-1)

US. Rhode Island RTK

Methanol (CAS 67-56-1)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause birth defects or other Reproductive harm.

< 1

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Methanol (CAS 67-56-1)



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International Inventories

| AICS | DSL | NDSL | IECSC | EINECS | ELINCS | ENCS | ECL | NZIoC | PICCS |
|----------|-----|------|-------|-------------|--------|------|-----|-------|-------|
| ~ | X | > | > | > | X | > | > | > | > |

AICS Australia Inventory of Chemical Substances.

DSL Canadian Domestic Substances List.

NDSL Canadian Non-Domestic Substances List (NDSL)
IECSC China Inventory of Existing Chemical Substances.

EINECS European Inventory of Existing Commercial Chemical Substances.

ELINCS European List of Notified Chemical Substances (ELINCS)
ENCS Japan Inventory of Existing And New Chemical Substances.

ECL Korea Existing Chemicals List
NZIoC New Zealand Inventory of Chemicals.

PICCS Philippines Inventory of Chemicals and Chemical Substances.

Note:

" indicates this product complies with the inventory requirements administered by the governing country(s).

indicates that one or more components of the product are not listed or exempt from listing on the inventory administered

by the governing country(s).

SECTION 16: OTHER INFORMATION

HMIS® ratings Health: 2

Flammability: 3 Physical hazard: 1

List of abbreviations PEL: Permissible Exposure Limit.

STEL: Short term exposure limit. TWA: Time weighted average.

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 obtained, 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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