

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product name: 1,1,1,3,5,5,5-Heptamethyltrisiloxane
Product Number: SS-5017
CAS No. 1873-88-7

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

1,1,1,3,5,5,5-Heptamethyltrisiloxane contains highly active silicon-hydrogen bonds, which is the basic raw material for synthesis of polyether modified trisiloxane, a type of surfactants with a special structure, which can be widely used in pesticide additives and coating additives

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 [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

GHS classification

Flammable liquids Category 2

2.2 GHS Label elements

Pictogram



Signal word : Danger

Hazard statement(s)

H225 Highly flammable liquid and vapour.

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces.
No Smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/equipment
P242 Use non-sparking tools
P243 Take action to prevent static discharges.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P264 Wash thoroughly after work.
P271 Use only outside or in a well-ventilated place.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Accident Reaction

P303 + P312 If swallowed: If you feel unwell, call a detoxification center or see doctor.
P302 + P352 If on skin: Wash with plenty of soap and water.
P305 + P351 + P338 If in eyes: Rinse carefully with water for a few minutes. If you wear contact lenses and can easily remove them, remove them. Continue flushing
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P321 Specific treatment (see first aid instructions provided on this label).

P330 Rinse the mouth.
P333 + P313 If skin irritation or rash occurs: Seek medical attention.
P337 + P313 If eye irritation persists: seek medical attention.
P363 Contaminated clothing can be reused only after washing.
P391 Collect spills.

Safety storage

P405 Storage shall be locked
P233 + P271 Keep the container airtight and only use it outside or in a well-ventilated place.

Disposal

P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards – none

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Formula $C_7H_{22}O_2Si_3$

Component	Concentration
CAS-No. 1873-88-7	≥ 99 %

3.2 Mixtures

Not Relevant

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Move the patient to a safe area, seek the doctor, and show the doctor this safety data sheet.

If inhaled

If inhaled, Move victim to fresh air, keep breathing clear, rest. Call the poison control center/doctor immediately if you feel unwell.

In case of skin contact

Immediately remove/remove all contaminated clothing. Wash gently with plenty of soap and water. If skin irritation or rash occurs: Seek medical attention.

In case of eye contact

Rinse carefully with water for a few minutes. Remove contact lenses if convenient and easy to handle. Keep cleaning.
If eye irritation: Seek medical attention.

If swallowed

If you feel unwell, call a poison control centre/doctor. Rinse your mouth.

Protection of Emergency responder

Responders need to wear personal protective equipment, such as rubber gloves and air-tight goggles.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

In large fires use dry powder or foam, in small fires use carbon dioxide, dry powder, sand. Water can be used to cool fire-affected containers.

5.2 Special hazards arising from the substance or mixture

Be careful, burning or high temperature may decompose and produce toxic smoke.

5.3 Specific Methods

Determine whether the area needs to be evacuated or quarantined based on the local emergency plan.
Keep fire exposed containers cool by spraying them with water.

5.4 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary. Fight fire from a safe distance with adequate cover.

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.

6.2 Environmental precautions

Under safe conditions, take steps to prevent further leakage or spillage. Do not let product enter drains. Prevent discharge into the surrounding environment.

6.3 Methods and materials for containment and cleaning up

Absorb with inert absorbent material and dispose of as hazardous waste. Store in a suitable closed disposal container.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Wear personal protective equipment/masks. Ensure adequate ventilation. Do not enter eyes, contact skin or clothing. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces, and ignition sources. Only use tools that do not produce sparks. To prevent steam fire caused by static electricity, all metal parts of the equipment should be grounded. Take precautions against static electricity. Guard against fire and explosion. Take good fire protection measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool place. Keep container tightly closed in a dry and well-ventilated location. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end uses

no data available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Maximum allowable concentration

Component name	CAS NO.	Maximum allowable concentration
1,1,1,3,5,5,5-Heptamethyltrisiloxane	1873-88-7	No data available

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

Respiratory protection: Gas mask. In accordance with local and government regulations.

Hand protection: Protective gloves.

Eye protection: Safety goggles. If the situation calls for it, wear a mask.

Skin and Body protection: Protective clothing. Wear protective boots if the situation calls for it.

Environmental protection

Local ventilation Recommendation

Conventional ventilation Recommendation

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical:	Liquid
Colour:	Colorless to light yellow transparent
pH:	no data available
Boiling point:	142°C
Melting point:	no data available
Flash point:	22°C - closed cup
Autoignition temperature:	no data available
Oxidation characteristic:	No
Upper explosive limit:	No data available
Lower explosive limit:	No data available
Vapor pressure:	No data available
Vapour density:	No data available
Specific gravity:	0.81g/cm ³
Solubleness:	No data available
Heat of combustion:	No data available
Viscosity:	No data available

SECTION 10: STABILITY AND REACTIVITY

10.1 General information

Industrial products should be stored and disposed of in accordance with conventional, non-harmful reactions.

10.2 Chemical stability

Light and moisture sensitive

10.3 Conditions to avoid contact

incompatible materials, ignition sources, excess heat

Dangerous Decomposition Products

carbon oxides and incomplete burned carbon compounds, silica.

Dangerous polymerization

No data available

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Route of Exposure: Inhalation, dermal contact and ingestion

11.2 Signs and Symptoms of Overexposure:

Harmful if inhaled. May be harmful if swallowed. Causing severe eye damage. May cause skin irritation. It may cause an allergic skin reaction.

11.3 Acute Toxicity:

Chemical name	CAS No.	LD50 (Oral)	LD50 (Dermal)	LC50 (Inhalation)
1,1,1,3,5,5,5-Heptamethyltrisiloxane	1873-88-7	-	-	-

Potential Health effects

Inhalation Inhalation may be harmful. May cause respiratory irritation.

Ingestion Harmful to human health.

Skin Can be harmful if absorbed through the skin. May cause skin irritation.

Eyes Cause eye irritation.

11.4 Chronic Toxicity

No Data

11.5 Other Health Hazard Information

No data available

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecological toxicity:

Fish: No data available

Toxicity to daphnia and other aquatic invertebrates: No data available

Algae: No data available

12.2 Residual/degradability

No data available

12.3 Potential Bioaccumulation (BCF):

No data available

12.4 Mobility in soils:

No data available

12.5 Additional Environment Information

Environmental hazards cannot be ruled out even in the case of professional handling or disposal

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Dispose of unused product in accordance with local regulations

Contaminated packaging

Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

ADR/RID:1993

IMDG: 1993

IATA: 1993

14.2 UN proper shipping name

ADR/RID:

FLAMMABLE LIQUID, N.O.S. (1,1,1,3,5,5,5-Heptamethyltrisiloxane)

IMDG:

FLAMMABLE LIQUID, N.O.S. (1,1,1,3,5,5,5-Heptamethyltrisiloxane)

IATA:

FLAMMABLE LIQUID, N.O.S. (1,1,1,3,5,5,5-Heptamethyltrisiloxane)

14.3 Transport hazard class(es)

ADR/RID: 3

IMDG: 3

IATA: 3

14.4 Packaging group

ADR/RID: II

IMDG: II

IATA: II

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 listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not 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

Yes

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

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

Not regulated.

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

Not regulated.

Safe Drinking Water Act (SDWA)

US state regulations

US. Massachusetts RTK - Substance List

Not regulated.

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

Not listed.

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

Not listed.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or Region	Inventory name	On Inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more of the components of the product are not listed or are exempt from listing on the inventory administered by the governing country(s)

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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