



STERI-SILICON®

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

VELTEK ASSOCIATES, INC.

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Revision date: 03/19/2018

Supersedes: 08/30/2017

Version: 9.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture
 Product name : STERI-SILICON®
 Product code : SDS SIL-01112

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Sterile emulsion based silicon spray lubricant
 Recommended use : For professional use only

1.3. Supplier

Veltek Associates, Inc.
 15 Lee Blvd
 Malvern, PA 19355-1234 USA
 Telephone: +1 610-644-8335 - Fax: +1 610-644-8336
 E-mail: vai@sterile.com

In Canada distributed by:
 CCR
 200 Terence Matthews
 Kanata, ONT K2M 2C6, Canada
 Telephone: 613-591-0044

1.4. Emergency telephone number

Emergency number : CARECHEM 24: 1-215-207-0061
 1-866-928-0789 (toll free)
 Canada: 1-800-579-7421 (toll free)
 Mexico: +52-55-5004-8763

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

| | | |
|----------------------------|------|---|
| Simple Asphyxiant | SIAS | May displace oxygen and cause rapid suffocation |
| Flammable aerosol | H223 | Flammable aerosol |
| Category 2 | | |
| Skin corrosion/irritation | H315 | Causes skin irritation |
| Category 2 | | |
| Specific target organ | H336 | May cause drowsiness or dizziness |
| toxicity (single exposure) | | |
| Category 3 | | |
| Aspiration hazard Category | H304 | May be fatal if swallowed and enters airways |
| 1 | | |
| Hazardous to the aquatic | H411 | Toxic to aquatic life with long lasting effects |
| environment - Chronic | | |
| Hazard Category 2 | | |

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H223 - Flammable aerosol
 H304 - May be fatal if swallowed and enters airways
 H315 - Causes skin irritation

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| | |
|-----------------------------------|--|
| Precautionary statements (GHS-US) | <p>H336 - May cause drowsiness or dizziness H411 - Toxic to aquatic life with long lasting effects SIAS - May displace oxygen and cause rapid suffocation</p> <p>: P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking. P211 - Do not spray on an open flame or other ignition source. P251 - Pressurized container: Do not pierce or burn, even after use. P261 - Avoid breathing vapors. P264 - Wash hands thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P280 - Wear eye protection, protective gloves, protective clothing. P301+P310 - If swallowed: Immediately call a doctor P331 - Do NOT induce vomiting. P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P332+P313 - If skin irritation occurs: Get medical advice/attention. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 - Call a doctor if you feel unwell. P362+P364 - Take off contaminated clothing and wash it before reuse. P391 - Collect spillage. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store locked up. P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. P501 - Dispose of contents/container to an authorized waste collection point</p> |
|-----------------------------------|--|

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | GHS-US classification |
|--|----------------------|---------|--|
| Distillates (petroleum), hydrotreated light paraffinic | (CAS-No.) 64742-47-8 | 70 - 80 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |
| Polydimethylsiloxane | (CAS-No.) 63148-62-9 | 7 - 12 | Not classified |
| White mineral oil (petroleum) | (CAS-No.) 8042-47-5 | 8 - 12 | Not classified |
| Carbon dioxide | (CAS-No.) 124-38-9 | < 1 | Not classified |

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures general | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. If symptoms develop obtain medical attention. |
| First-aid measures after skin contact | : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If symptoms develop, obtain medical attention. |
| First-aid measures after eye contact | : Rinse immediately with plenty of water. If symptoms develop, obtain medical attention. |
| First-aid measures after ingestion | : Do NOT induce vomiting. Do not give an unconscious person anything to drink. Rinse mouth. Obtain immediate medical attention. |

4.2. Most important symptoms and effects (acute and delayed)

| | |
|-------------------------------------|--|
| Symptoms/effects after inhalation | : May cause drowsiness or dizziness. In high concentrations may cause asphyxiation. |
| Symptoms/effects after skin contact | : Causes skin irritation. |
| Symptoms/effects after eye contact | : May cause slight irritation. |
| Symptoms/effects after ingestion | : May be fatal if swallowed and enters airways. May result in aspiration into the lungs, causing chemical pneumonia. |

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4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Dry powder. Alcohol-resistant foam. Carbon dioxide. Water spray. Water fog.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard : Flammable aerosol.
Explosion hazard : May form flammable/explosive vapor-air mixture. Pressurized container: may burst if heated.
Reactivity : Stable under normal conditions. Flammable aerosol.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus when in close proximity to fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Remove all sources of ignition. Ventilate area. Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Use chemically protective clothing.
Emergency procedures : Remove all sources of ignition. Ventilate area. Avoid inhalation of vapors. Avoid contact with skin and eyes.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

SECTION 8: Exposure controls/personal protection. SECTION 13: Disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Pressurized container: may burst if heated. Do not pierce or burn, even after use. Provide good ventilation in process area to prevent formation of vapor. Use only outdoors or in a well-ventilated area. Avoid inhalation of vapors. Avoid contact with skin, eyes and clothing.
Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Incompatible materials : Strong oxidizing agents. Strong acids.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| White mineral oil (petroleum) (8042-47-5) | | |
|---|-------------------------------------|--------------------------|
| OSHA | OSHA PEL (TWA) (mg/m ³) | 5 mg/m ³ Mist |

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| Carbon dioxide (124-38-9) | | |
|---|-------------------------------------|---|
| ACGIH | Local name | Carbon dioxide |
| ACGIH | ACGIH TWA (ppm) | 5000 ppm |
| ACGIH | ACGIH STEL (ppm) | 30000 ppm |
| ACGIH | Remark (ACGIH) | Asphyxia |
| ACGIH | Regulatory reference | ACGIH 2017 |
| OSHA | OSHA PEL (TWA) (mg/m ³) | 9000 mg/m ³ |
| OSHA | OSHA PEL (TWA) (ppm) | 5000 ppm |
| OSHA | Regulatory reference (US-OSHA) | OSHA |
| Distillates (petroleum), hydrotreated light paraffinic (64742-47-8) | | |
| ACGIH | Local name | Kerosene/Jet fuels, as total hydrocarbon vapor |
| ACGIH | ACGIH TWA (mg/m ³) | 200 mg/m ³ 200 mg/m ³ |
| ACGIH | Remark (ACGIH) | Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans: The agent is carcinogenic in experimental animals at a relatively high dose, by route(s) of administration, at site(s), of histologic type(s), or by mechanism(s) that may not be relevant to worker exposure. Available epidemiologic studies do not confirm an increased risk of cancer in exposed humans. Available evidence does not suggest that the agent is likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure) |

8.2. Appropriate engineering controls

- Appropriate engineering controls : Provide adequate general and local exhaust ventilation. Provide good ventilation in process area to prevent formation of vapor.
- Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear chemically resistant protective gloves. The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed. Gloves should be removed and replaced if there are any signs of degradation or breakthrough.

Eye protection:

Safety glasses

Skin and body protection:

Long sleeved protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazard protection:

Not required for normal conditions of use.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Appearance : Aerosol. Clear. Colorless liquid.

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| | |
|---|---|
| Color | : Clear |
| Odor | : Odorless |
| Odor threshold | : No data available |
| pH | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : 203 °F (95°C) (ASTM D-93) (Liquid) |
| Relative evaporation rate (butyl acetate=1) | : < 0.01 (Liquid) |
| Flammability (solid, gas) | : Not applicable. |
| Vapor pressure | : No data available |
| Relative vapor density at 20 °C | : 6.5 (101 kPa) (calculated value) (Liquid) |
| Relative density | : No data available |
| Solubility | : Water: % Negligible. |
| Log Pow | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosion limits | : 0.6 - 4.9 vol % (Liquid) |
| Explosive properties | : Pressurized container: may burst if heated. |
| Oxidizing properties | : Not oxidizing. |

9.2. Other information

VOC content : 90 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions. Flammable aerosol.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Under fire conditions closed containers may rupture or explode.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

Strong oxidizing agents. Strong acids.

10.6. Hazardous decomposition products

Fire may produce irritating, corrosive and/or toxic gases. Carbon monoxide. Carbon dioxide. Silicon oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

White mineral oil (petroleum) (8042-47-5)

| | |
|---------------|--------------|
| LD50 oral rat | > 5000 mg/kg |
|---------------|--------------|

Distillates (petroleum), hydrotreated light paraffinic (64742-47-8)

| | |
|----------------------------|----------------------|
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg |
| LC50 inhalation rat (mg/l) | > 5.2 mg/l - 4 Hours |

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Not classified

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| | |
|--|--|
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| Specific target organ toxicity – single exposure | : May cause drowsiness or dizziness. |
| Specific target organ toxicity – repeated exposure | : Not classified |
| Aspiration hazard | : May be fatal if swallowed and enters airways. |
| Symptoms/effects after inhalation | : May cause drowsiness or dizziness. In high concentrations may cause asphyxiation. |
| Symptoms/effects after skin contact | : Causes skin irritation. |
| Symptoms/effects after eye contact | : May cause slight irritation. |
| Symptoms/effects after ingestion | : May be fatal if swallowed and enters airways. May result in aspiration into the lungs, causing chemical pneumonia. |

SECTION 12: Ecological information

12.1. Toxicity

Distillates (petroleum), hydrotreated light paraffinic (64742-47-8)

| | |
|-----------|---|
| LC50 fish | 2.2 mg/l 96 Hours - Lepomis macrochirus |
|-----------|---|

12.2. Persistence and degradability

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| | |
|-------------------------------|---------------------------------------|
| Persistence and degradability | Expected to be readily biodegradable. |
|-------------------------------|---------------------------------------|

12.3. Bioaccumulative potential

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| | |
|---------------------------|-----------------------------|
| Bioaccumulative potential | Potentially bioaccumulable. |
|---------------------------|-----------------------------|

12.4. Mobility in soil

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| | |
|----------------|--------------|
| Ecology - soil | Very mobile. |
|----------------|--------------|

12.5. Other adverse effects

| | |
|------------------------------|---------------------------------------|
| Effect on the global warming | : No known effects from this product. |
| GWPmix comment | : No known effects from this product. |

| | |
|-------------------|-------------------------------------|
| Other information | : Avoid release to the environment. |
|-------------------|-------------------------------------|

SECTION 13: Disposal considerations

13.1. Disposal methods

| | |
|--------------------------------|--|
| Waste disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations. Do not pierce or burn, even after use. Pressurized container: may burst if heated. |
| Additional information | : Handle empty containers with care because residual vapors are flammable. |
| Ecology - waste materials | : Avoid release to the environment. |

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

| | |
|--------------------------------|---|
| Transport document description | : UN1950 Aerosols, flammable (each not exceeding 1 L capacity), 2.1 |
|--------------------------------|---|

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UN-No.(DOT) : UN1950
Proper Shipping Name (DOT) : Aerosols, flammable (each not exceeding 1 L capacity)
Transport hazard class(es) (DOT) : 2.1 - Class 2.1 - Flammable gas 49 CFR 173.115
Hazard labels (DOT) : 2.1 - Flammable gas



Dangerous for the environment : Yes
Marine pollutant : Yes
DOT Packaging Non Bulk (49 CFR 173.xxx) : None
DOT Packaging Bulk (49 CFR 173.xxx) : None
DOT Special Provisions (49 CFR 172.102) : N82
DOT Packaging Exceptions (49 CFR 173.xxx) : 306
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 75 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 150 kg
DOT Vessel Stowage Location : A
DOT Vessel Stowage Other : 25, 87, 126
Emergency Response Guide (ERG) Number : 126
Other information : No supplementary information available.

Transportation of Dangerous Goods

Transport document description : UN1950 AEROSOLS, flammable, 2.1
UN-No. (TDG) : UN1950
Proper Shipping Name (Transportation of Dangerous Goods) : AEROSOLS, flammable
TDG Primary Hazard Classes : 2.1 - Class 2.1 - Flammable Gas.
TDG Special Provisions : 80, 107
Explosive Limit and Limited Quantity Index : 1 L
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index : 75 L

Transport by sea

Transport document description (IMDG) : UN 1950 AEROSOLS, 2.1
UN-No. (IMDG) : 1950
Proper Shipping Name (IMDG) : AEROSOLS
Class (IMDG) : 2 - Gases
Marine pollutant : Yes

Air transport

Transport document description (IATA) : UN 1950 Aerosols, flammable, 2.1
UN-No. (IATA) : 1950
Proper Shipping Name (IATA) : Aerosols, flammable
Class (IATA) : 2

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SECTION 15: Regulatory information

15.1. US Federal regulations

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| | |
|-------------------------------------|---|
| SARA Section 311/312 Hazard Classes | Physical hazard - Flammable (gases, aerosols, liquids, or solids) Physical hazard - Gas under pressure Health hazard - Simple asphyxiant Health hazard - Skin corrosion or Irritation Health hazard - Aspiration hazard Health hazard - Specific target organ toxicity (single or repeated exposure) |
|-------------------------------------|---|

Polydimethylsiloxane (63148-62-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

White mineral oil (petroleum) (8042-47-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Carbon dioxide (124-38-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Distillates (petroleum), hydrotreated light paraffinic (64742-47-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

No additional information available

Carbon dioxide (124-38-9)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

Carbon dioxide (124-38-9)

U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Revision date : 03/19/2018
Data sources : US OSHA HazCom (GHS) 25 May 2012.
Other information : None.

Full text of H-phrases:

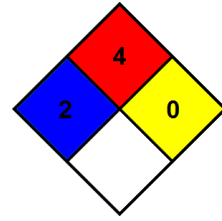
| | |
|------|---|
| H223 | Flammable aerosol |
| H226 | Flammable liquid and vapor |
| H304 | May be fatal if swallowed and enters airways |
| H315 | Causes skin irritation |
| H336 | May cause drowsiness or dizziness |
| H411 | Toxic to aquatic life with long lasting effects |
| SIAS | May displace oxygen and cause rapid suffocation |

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- NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
- NFPA fire hazard : 4 - Materials that rapidly or completely vaporize at atmospheric pressure and normal ambient temperature or that are readily dispersed in air and burn readily.
- NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



- Hazard Rating
- Health : 2 Moderate Hazard - Temporary or minor injury may occur
- Flammability : 4 Severe Hazard - Flammable gases, or very volatile flammable liquids with flash points below 73 F, and boiling points below 100 F. Materials may ignite spontaneously with air. (Class IA)
- Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
- Personal protection : B
B - Safety glasses, Gloves

Indication of changes:

| Section | Changed item | Change | Comments |
|---------|--|----------|----------|
| 2 | Hazards identification | Modified | |
| 3 | Composition/Information on ingredients | Modified | |
| 5 | | Modified | |
| 10 | Stability and reactivity | Modified | |
| 16 | Other information | Modified | |

SDS US (GHS HazCom 2012)

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