1 Identification

- Product identifier
- **Trade name:** Super Lube® Silicone Aerosol
- **Other means of identification:** No other identifiers
- **Recommended use and restriction on use**
  - **Recommended use:** Lubricant
  - **Restrictions on use:** No relevant information available.

2 Hazard(s) identification

- **Classification of the substance or mixture**
  - Flam. Aerosol 1 H222 Extremely flammable aerosol.
  - Press. Gas H280 Contains gas under pressure; may explode if heated.
  - Skin Irrit. 2 H315 Causes skin irritation.
  - Eye Irrit. 2A H319 Causes serious eye irritation.
  - STOT SE 3 H336 May cause drowsiness or dizziness.
  - Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

- **Label elements**
  - **GHS label elements**
    - The product is classified and labeled according to the Globally Harmonized System (GHS).
  - **Hazard pictograms:**
    - GHS02 GHS04 GHS07 GHS08

- **Signal word:** Danger

- **Hazard statements:**
  - H222 Extremely flammable aerosol.
  - H280 Contains gas under pressure; may explode if heated.
  - H315 Causes skin irritation.
  - H319 Causes serious eye irritation.
  - H336 May cause drowsiness or dizziness.
  - H304 May be fatal if swallowed and enters airways.

- **Precautionary statements:**
  - P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

(Cont'd. on page 2)
Trade name: Super Lube® Silicone Aerosol

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 mist, vapors, or spray.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection.
P301+P310 If swallowed: Immediately call a poison center/doctor.
P331 Do NOT induce vomiting.
P302+P352 If on skin: Wash with plenty of water.
P304+P340 IF INHALED: Remove person to fresh air and keep 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.
P312 Call a poison center/doctor if you feel unwell.
P362+P364 Take off contaminated clothing and wash it before reuse.
P403+P351 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 in accordance with local/regional/national/international regulations.

**Other hazards**
There are no other hazards not otherwise classified that have been identified.

### 3 Composition/information on ingredients

**Chemical characterization: Mixtures**

<table>
<thead>
<tr>
<th>Components</th>
<th>Identity</th>
<th>Hazard Statements</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>142-82-5</td>
<td>heptane</td>
<td>Flam. Liq. 2, H225</td>
<td>40-60%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Asp. Tox. 1, H304</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin Irrit. 2, H315; STOT SE 3, H336</td>
<td></td>
</tr>
<tr>
<td>67-64-1</td>
<td>Acetone</td>
<td>Flam. Liq. 2, H225</td>
<td>25-50%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Eye Irrit. 2A, H319; STOT SE 3, H336</td>
<td></td>
</tr>
<tr>
<td>124-38-9</td>
<td>carbon dioxide</td>
<td>Press. Gas, H280</td>
<td>2.5-10%</td>
</tr>
</tbody>
</table>

**Additional information:**
For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.
For the wording of the listed Hazard Statements, refer to section 16.

### 4 First-aid measures

**Description of first aid measures**

**After inhalation:**
Supply fresh air; consult doctor in case of complaints.
Provide oxygen treatment if affected person has difficulty breathing.

**After skin contact:**
Immediately remove any clothing soiled by the product.
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
In cases of frostbite, rinse with plenty of water. Do not remove clothing.

**After eye contact:**
Remove contact lenses if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. 

**After swallowing:**
Unlikely route of exposure. Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help. A person vomiting while lying on their back should be turned onto their side.

**Most important symptoms and effects, both acute and delayed:**
- Headache
- Breathing difficulty
- Frostbite
- Dizziness
- Coughing
- Irritant to skin and mucous membranes.
- Causes eye irritation.

**Danger:**
- Vapors have narcotic effect.
- Danger of disturbed cardiac rhythm.
- Danger of impaired breathing.

**Indication of any immediate medical attention and special treatment needed:**
- Later observation for pneumonia and pulmonary edema.
- Treat frost-bitten areas appropriately.
- If swallowed or in case of vomiting, danger of entering the lungs.
- Medical supervision for at least 48 hours.
- If necessary oxygen respiration treatment.

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**5 Fire-fighting measures**

- **Extinguishing media**
  - **Suitable extinguishing agents:** Carbon dioxide
  - Foam
  - Fire-extinguishing powder
  - Gaseous extinguishing agents
  - Water fog / haze

- **For safety reasons unsuitable extinguishing agents:** Water spray

- **Special hazards arising from the substance or mixture**
  - Formation of toxic gases is possible during heating or in case of fire. Danger of receptacles bursting because of high vapor pressure if heated.

- **Advice for firefighters**
  - **Protective equipment:** Wear self-contained respiratory protective device. Wear fully protective suit.

- **Additional information:**
  - Eliminate all ignition sources if safe to do so.
  - Cool endangered containers with water fog.
  - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
  Use respiratory protective device against the effects of fumes/dust/aerosol.
  Ensure adequate ventilation.
  Wear protective equipment. Keep unprotected persons away.
  Keep away from ignition sources.
  Protect from heat.
- Environmental precautions
  Do not allow to enter sewers/surface or ground water.
  Inform respective authorities in case of seepage into water course or sewage system.
- Methods and material for containment and cleaning up
  Allow to evaporate.
  Absorb liquid components with non-combustible liquid-binding material.
  Send for recovery or disposal in suitable receptacles.
- Reference to other sections
  See Section 7 for information on safe handling.
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.

7 Handling and storage

- Handling
  - Precautions for safe handling:
    Keep out of reach of children.
    Avoid contact with the eyes and skin.
    Avoid breathing mist, vapors, or spray.
    Use only in well ventilated areas.
    Keep away from heat and direct sunlight.
  - Information about protection against explosions and fires:
    Do not spray on a naked flame or any incandescent material.
    Keep ignition sources away - Do not smoke.
    Pressurized container: protect from sunlight and do not expose to temperatures exceeding 120 °F / 49 °C, i.e. electric lights. Do not pierce or burn, even after use.
    Emergency cooling must be available in case of nearby fire.
    Keep respiratory protective device available.
- Conditions for safe storage, including any incompatibilities
  - Requirements to be met by storerooms and receptacles:
    Observe official regulations on storing packagings with pressurized containers.
    Avoid storage near extreme heat, ignition sources or open flame.
  - Information about storage in one common storage facility:
    Store away from foodstuffs.
    Store away from oxidizing agents.
  - Further information about storage conditions:
    Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.
    Storage Temperatures: <122 °F / <50 °C.
  - Specific end use(s) No relevant information available.
### 8 Exposure controls/personal protection

#### Control parameters

#### Components with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>Component</th>
<th>PEL (USA)</th>
<th>REL (USA)</th>
<th>TLV (USA)</th>
<th>EL (Canada)</th>
<th>EV (Canada)</th>
<th>LMPE (Mexico)</th>
</tr>
</thead>
<tbody>
<tr>
<td>142-82-5 heptane</td>
<td>Long-term value: 2000 mg/m³, 500 ppm</td>
<td>Long-term value: 350 mg/m³, 85 ppm</td>
<td>Short-term value: 2050 mg/m³, 500 ppm</td>
<td>Short-term value: 500 ppm</td>
<td>Short-term value: 2045 mg/m³, 500 ppm</td>
<td>Short-term value: 500 ppm</td>
</tr>
<tr>
<td></td>
<td>Ceiling limit value: 1800* mg/m³, 440* ppm</td>
<td>*15-min</td>
<td>Long-term value: 1640 mg/m³, 400 ppm</td>
<td>Long-term value: 400 ppm</td>
<td>Long-term value: 1635 mg/m³, 400 ppm</td>
<td>Long-term value: 400 ppm</td>
</tr>
<tr>
<td>67-64-1 Acetone</td>
<td>Long-term value: 2400 mg/m³, 1000 ppm</td>
<td>Long-term value: 590 mg/m³, 250 ppm</td>
<td>Short-term value: 1187 mg/m³, 500 ppm</td>
<td>Short-term value: 500 ppm</td>
<td>Short-term value: 750 ppm</td>
<td>Short-term value: 750 ppm</td>
</tr>
<tr>
<td></td>
<td>Long-term value: 594 mg/m³, 250 ppm</td>
<td>BEI</td>
<td>Long-term value: 594 mg/m³, 250 ppm</td>
<td>Long-term value: 250 ppm</td>
<td>Long-term value: 500 ppm</td>
<td>Long-term value: 500 ppm</td>
</tr>
<tr>
<td>124-38-9 carbon dioxide</td>
<td>Long-term value: 9000 mg/m³, 5000 ppm</td>
<td>Short-term value: 54,000 mg/m³, 30,000 ppm</td>
<td>Short-term value: 54,000 mg/m³, 30,000 ppm</td>
<td>Short-term value: 15000 ppm</td>
<td>Short-term value: 54,000 mg/m³, 30,000 ppm</td>
<td>Short-term value: 30000 ppm</td>
</tr>
<tr>
<td></td>
<td>Long-term value: 9000 mg/m³, 5000 ppm</td>
<td>Long-term value: 9000 mg/m³, 5000 ppm</td>
<td>Long-term value: 9000 mg/m³, 5000 ppm</td>
<td>Long-term value: 5000 ppm</td>
<td>Long-term value: 9,000 mg/m³, 5,000 ppm</td>
<td>Long-term value: 5000 ppm</td>
</tr>
</tbody>
</table>

#### Ingredients with biological limit values:

- **67-64-1 Acetone**

(Cont'd. on page 6)
Trade name: Super Lube® Silicone Aerosol

<table>
<thead>
<tr>
<th>BEI (USA)</th>
<th>50 mg/L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medium:</td>
<td>urine</td>
</tr>
<tr>
<td>Time:</td>
<td>end of shift</td>
</tr>
<tr>
<td>Parameter:</td>
<td>Acetone (nonspecific)</td>
</tr>
</tbody>
</table>

**Exposure controls**

- **General protective and hygienic measures:**
  The usual precautionary measures for handling chemicals should be followed.
  Keep away from foodstuffs, beverages and feed.
  Immediately remove all soiled and contaminated clothing.
  Wash hands before breaks and at the end of work.
  Do not inhale gases / fumes / aerosols.
  Avoid contact with the eyes and skin.

- **Engineering controls:** No relevant information available.

- **Breathing equipment:**
  Wear appropriate NIOSH respirator when ventilation is inadequate and occupational exposure limits are exceeded.

- **Protection of hands:**
  Protective gloves
  The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **Eye protection:**
  Safety glasses

- **Body protection:**
  Not required under normal conditions of use.
  Protection may be required for spills.

**Limitation and supervision of exposure into the environment**

- **Risk management measures**
  No relevant information available.

**9 Physical and chemical properties**

- **Information on basic physical and chemical properties**
  - **Appearance:**
    - Form: Aerosol
    - Color: Transparent
    - Odor: Solvent-like
    - Odor threshold: Not determined.

  - **pH-value:** Not determined.
  - **Melting point/Melting range:** Not applicable, as aerosol.
  - **Boiling point/Boiling range:** Not applicable, as aerosol.
### 10 Stability and reactivity

**Reactivity:** No relevant information available.

**Chemical stability:**

**Thermal decomposition / conditions to be avoided:**
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

**Possibility of hazardous reactions**
- Extremely flammable aerosol.
- Develops readily flammable gases / fumes.
- Danger of receptacles bursting because of high vapor pressure if heated.
- Reacts with peroxides and other radical forming substances.
- Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.

**Conditions to avoid** Excessive heat.

**Incompatible materials** Oxidizing agents

**Hazardous decomposition products** Carbon monoxide and carbon dioxide

---

<table>
<thead>
<tr>
<th>Property</th>
<th>Value/Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash point</td>
<td>-4 °C (24.8 °F)</td>
</tr>
<tr>
<td>Extremely flammable aerosol.</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gaseous):</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Auto-ignition temperature:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Decomposition temperature:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Danger of explosion:</td>
<td>In use, may form flammable/explosive vapour-air mixture.</td>
</tr>
<tr>
<td>Explosion limits</td>
<td></td>
</tr>
<tr>
<td>Lower</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Upper</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Oxidizing properties:</td>
<td>Non-oxidizing.</td>
</tr>
<tr>
<td>Vapor pressure at 20 °C (68 °F):</td>
<td>80-90 psig</td>
</tr>
<tr>
<td>Density</td>
<td></td>
</tr>
<tr>
<td>Relative density</td>
<td>0.866</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Solubility in / Miscibility with Water</td>
<td>Not miscible or difficult to mix.</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water):</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Viscosity</td>
<td></td>
</tr>
<tr>
<td>Dynamic</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Kinematic</td>
<td>Not determined.</td>
</tr>
<tr>
<td>VOC (California):</td>
<td>&lt; 60%</td>
</tr>
<tr>
<td>Exempt VOCs are excluded from this value</td>
<td></td>
</tr>
</tbody>
</table>

---

(acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations
Revision: August 1, 2019)
11 Toxicological information

- Information on toxicological effects
  - Acute toxicity: Based on available data, the classification criteria are not met.

- LD/LC50 values that are relevant for classification:

<table>
<thead>
<tr>
<th>142-82-5 heptane</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD50</td>
</tr>
<tr>
<td>&gt; 5000 mg/kg (rat) (Estimate)</td>
</tr>
<tr>
<td>Inhalative LC50/4h</td>
</tr>
<tr>
<td>103 mg/l (rat)</td>
</tr>
</tbody>
</table>

- Primary irritant effect:
  - On the skin: Irritant to skin and mucous membranes.
  - On the eye: Irritating effect.
  - Sensitization: No sensitizing effects known.

- IARC (International Agency for Research on Cancer):
  None of the ingredients are listed.

- NTP (National Toxicology Program):
  None of the ingredients are listed.

- OSHA-Ca (Occupational Safety & Health Administration):
  None of the ingredients are listed.

- Probable route(s) of exposure:
  Inhalation.
  Eye contact.
  Skin contact.

- Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- Carcinogenicity: Based on available data, the classification criteria are not met.
- Reproductive toxicity: Based on available data, the classification criteria are not met.
- STOT-single exposure: May cause drowsiness or dizziness.
- STOT-repeated exposure: Based on available data, the classification criteria are not met.
- Aspiration hazard: May be fatal if swallowed and enters airways.

12 Ecological information

- Toxicity
  - Aquatic toxicity: Toxic for aquatic organisms
  - Persistence and degradability: No relevant information available.
  - Bioaccumulative potential: Does not accumulate in organisms
  - Mobility in soil: No relevant information available.

- Additional ecological information
  - General notes: Do not allow product to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.

- Other adverse effects: No relevant information available.
13 Disposal considerations

- Waste treatment methods
  - Recommendation: Contact waste processors for recycling information.
  - The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

- Uncleaned packagings
  - Recommendation: Disposal must be made according to official regulations.

14 Transport information

- UN-Number
  - DOT, ADR, IMDG, IATA UN1950

- UN proper shipping name
  - DOT
  - ADR, IMDG Aerosols
  - IATA AEROSOLS

- Transport hazard class(es)
  - DOT
    - Class 2.1
    - Label 2.1
  - ADR
    - Class 2 5F
    - Label 2.1
  - IMDG, IATA
    - Class 2.1
    - Label 2.1

- Packing group Aerosols are not assigned a packing group.
### Environmental hazards
- Marine pollutant: Yes

### Special precautions for user
- Warning: Gases
- Danger code (Kemler): -
- EMS Number: F-D,S-U

### Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
- Not applicable.

### Transport/Additional information:
- **DOT**
  - Limited Quantity for packages less than 30 kg gross and inner packagings less than 1 L.
- **ADR**
  - Limited Quantity for packages less than 30 kg gross and inner packagings less than 1 L.
- **IMDG**
  - Limited Quantity for packages less than 30 kg gross and inner packagings less than 1 L.
- **IATA**
  - Limited Quantity for packages less than 30 kg gross and inner packagings less than 1 L.

### 15 Regulatory information
- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - **United States (USA)**
  - **SARA**
    - **Section 302 (extremely hazardous substances):**
      - None of the ingredients are listed.
    - **Section 355 (extremely hazardous substances):**
      - (Cont'd. on page 11)
Trade name: Super Lube® Silicone Aerosol

- **Section 313 (Specific toxic chemical listings):**
  None of the ingredients are listed.

- **TSCA (Toxic Substances Control Act)**
  All ingredients are listed.

- **Proposition 65 (California)**

  - **Chemicals known to cause cancer:**
    None of the ingredients are listed.

  - **Chemicals known to cause developmental toxicity for females:**
    None of the ingredients are listed.

  - **Chemicals known to cause developmental toxicity for males:**
    None of the ingredients are listed.

  - **Chemicals known to cause developmental toxicity:**
    None of the ingredients are listed.

- **EPA (Environmental Protection Agency):**

  - 142-82-5 Heptane D
  - 67-64-1 Acetone I

- **IARC (International Agency for Research on Cancer):**
  None of the ingredients are listed.

- **Canadian Domestic Substances List (DSL) (Substances not listed.):**
  All ingredients are listed.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Abbreviations and acronyms:**
  ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
  IMDG: International Maritime Code for Dangerous Goods
  DOT: US Department of Transportation
  IATA: International Air Transport Association
  CAS: Chemical Abstracts Service (division of the American Chemical Society)
  LC50: Lethal concentration, 50 percent
  LD50: Lethal dose, 50 percent
  PBT: Persistent, Bio-accumulative, Toxic
  vPvB: very Persistent and very Bioaccumulative
  OSHA: Occupational Safety & Health Administration
  Flam. Aerosol 1: Aerosols – Category 1
  Press. Gas: Gases under pressure – Compressed gas
  Press. Gas: Gases under pressure – Liquefied gas
  Flam. Liq. 2: Flammable liquids – Category 2
  Skin Irrit. 2: Skin corrosion/irritation – Category 2
  Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
  STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
  Asp. Tox. 1: Aspiration hazard – Category 1

- **Sources**
  Website, European Chemicals Agency (echa.europa.eu)
**Trade name:** Super Lube® Silicone Aerosol

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)
Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)
Safety Data Sheets, Individual Manufacturers

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Website: www.chemtelinc.com