Safety Data Sheet

SECTION 1: IDENTIFICATION

SDS Number: S-1904, version 7/19/2018

(a) Product identifier
Gans Item ID: S-1904

Gans Description: Silicone Spray

(b) Other means of identification
General description: Industrial lubricant, spray applied

(c) Recommended use
Product Use: Industrial use only
Restrictions on use: Not for residential use.

(d) Supplier’s details
Manufacturer: Gans Ink and Supply Co, Inc.
Address: 1441 Boyd Street
Los Angeles, CA 90033
Contact Person: Marco Ramos
Telephone: 323-264-2200 x139
Email: MSDS@gansink.com

(e) Emergency telephone numbers:
Chemical spill or physical hazard: Contact the Local Emergency Response Agency 9-1-1 or the Local Fire Department
Ingestion or health hazard: Contact the National Capital Poison Center, Poison Control: 800 222-1222; Poison.org

SECTION 2: HAZARD(S) IDENTIFICATION


Physical hazards:
  o Flammable Aerosol – Category 1

Health hazards:
  o Skin Irritation – Category 2
  o Germ Cell Mutagenicity – Category 1B
  o Carcinogenicity – Category 1B
  o Toxic to Reproduction – Category 2
  o Specific Target Organ Toxicity, Single Exposure (central nervous system, inhalation) – Category 3
  o Specific Target Organ Toxicity, Repeat Exposure (neurologic, inhalation) – Category 2
  o Aspiration Hazard – Category 1
Environmental hazards:
- Hazardous to the Aquatic Environment, Acute – Category 2
- Hazardous to the Aquatic Environment, Chronic – Category 2

(b) Label elements
Signal Word: Danger
Hazard Statements: Extremely flammable aerosol

Causes skin irritation; May cause genetic defects; May cause cancer; Suspected of damaging fertility or the unborn child; May cause drowsiness or dizziness; May cause damage to organs <neurological> through prolonged or repeated exposure <<inhalation>>
May be fatal if swallowed and enters airways;

Toxic to aquatic life; Toxic to aquatic life with long lasting effects;

Precautionary Statements:
Keep away from heat/sparks/open flames/hot surfaces. -No smoking. Do not spray on an open flame or other ignition source.
Pressurized container: Do not pierce or burn, even after use.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe fume/mist/ vapors/spray. Use only outdoors or in a well-ventilated area.

Avoid release to the environment.

Response:
If exposed or concerned: Get medical advice/attention.
IF ON SKIN OR HAIR: Wash with plenty of water and mild soap. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.
IF SWALLOWED: Immediately call a poison center/doctor. Do NOT induce vomiting.

Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 122 °F/ 50 ºC.

Disposal: Dispose of contents/container to disposal recycling center. Waste management should be in full compliance with federal, state and local laws.

(c) Hazards not otherwise classified: None known
(d) Ingredients of unknown acute toxicity: NA
SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS # (TS = trade secret)</th>
<th>Conc. min. (wt. %)</th>
<th>Conc. max. (wt. %)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>40.0%</td>
<td>60.0%</td>
</tr>
<tr>
<td>Heptane, branched, cyclic and linear</td>
<td>426260-76-6</td>
<td>10.0%</td>
<td>20.0%</td>
</tr>
<tr>
<td>Solvent naphtha (petroleum), light aliph.</td>
<td>64742-89-8</td>
<td>10.0%</td>
<td>20.0%</td>
</tr>
<tr>
<td>Cyclohexane</td>
<td>110-82-7</td>
<td>2.5%</td>
<td>10.0%</td>
</tr>
<tr>
<td>Naphtha (petroleum), hydrotreated heavy</td>
<td>64742-48-9</td>
<td>2.5%</td>
<td>10.0%</td>
</tr>
<tr>
<td>Heptane</td>
<td>142-82-5</td>
<td>2.5%</td>
<td>10.0%</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>2.5%</td>
<td>10.0%</td>
</tr>
<tr>
<td>N-hexane</td>
<td>110-54-3</td>
<td>0.1%</td>
<td>1.0%</td>
</tr>
</tbody>
</table>

SECTION 4: FIRST AID MEASURES

(a) Description of first aid measures:
Inhalation: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.
Skin contact: Wash with plenty of water and mild soap. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
Eye contact: Rinse cautiously with water for several minutes.
Ingestion: Immediately call a poison center/doctor. Do NOT induce vomiting.

(b) Most important symptoms and effects, both acute and delayed:
Ingestion: May be fatal if swallowed and enters airways; May cause genetic defects; May cause cancer; Suspected of damaging fertility or the unborn child;
Inhalation: May cause drowsiness or dizziness; May cause damage to organs <neurological> through prolonged or repeated exposure <<inhalation>>; May be fatal if swallowed and enters airways;
Skin contact: Causes skin irritation;
Eye contact: Data not available.

(c) Indication of any immediate medical attention and special treatment needed: Data not available.

SECTION 5: FIRE – FIGHTING MEASURES

(a) Extinguishing Media:
Suitable extinguishing media: Use CO₂, or extinguishing powder.
Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

(b) Special hazards arising from the substance or mixture: Contents under pressure. Pressurized container may explode when exposed to heat or flame.

(c) Special protective equipment and precautions for fire-fighters: Wear NIOSH approved self-contained respiratory protective device, and fully protective fire-fighting suit.

SECTION 6: ACCIDENTAL RELEASE MEASURES

(a.i) Personal precautions: Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe fume/mist/vapors/spray.
(a.ii) Protective equipment: Wear protective gloves/protective clothing/eye protection/face protection. See Section 8 for details.
(a.iii) Emergency procedures: Keep away from heat/sparks/open flames/hot surfaces. -No smoking. Isolate area until gas has dispersed. Prevent entry into waterways, sewer, basements or confined areas. Follow your company’s emergency procedures.

(b) Methods for containment and cleaning up: Isolate area until gas has dispersed. Dike and contain spilled liquid, if present. Soak up with inert absorbent material.

SECTION 7: HANDLING AND STORAGE

(a) Precautions for safe handling: Keep away from heat/sparks/open flames/hot surfaces. -No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe fume/mist/ vapors/spray. Use only outdoors or in a well-ventilated area.

Avoid release to the environment.

(b) Conditions for safe storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 122 °F/ 50 °C.

Incompatibilities: Keep away from oxidizing agents. Keep away from high heat, and direct sunlight

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS #</th>
<th>ppm</th>
<th>mg/m³</th>
<th>8-hour TWA (ST)</th>
<th>STEL (C) Ceiling</th>
<th>Up to 10-hour TWA (ST)</th>
<th>STEL (C) Ceiling</th>
<th>8-hour TWA (ST)</th>
<th>STEL (C) Ceiling</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>1000</td>
<td>1800</td>
<td>1000 ppm</td>
<td></td>
<td></td>
<td></td>
<td>1000 ppm</td>
<td></td>
</tr>
<tr>
<td>Cyclohexane</td>
<td>110-82-7</td>
<td>300</td>
<td>1050</td>
<td>300 ppm</td>
<td></td>
<td></td>
<td></td>
<td>300 ppm</td>
<td></td>
</tr>
<tr>
<td>Heptane</td>
<td>142-82-5</td>
<td>500</td>
<td>2000</td>
<td>400 ppm (ST) 500 ppm</td>
<td>85 ppm (ST) 440 ppm [15-min]</td>
<td>400 ppm (ST) 500 ppm</td>
<td>400 ppm</td>
<td>400 ppm</td>
<td></td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>(C) 300 ppm</td>
<td>Data not available</td>
<td>10 ppm (ST) 150 ppm (C) 500 ppm</td>
<td>100 ppm (ST) 150 ppm</td>
<td>100 ppm (ST) 150 ppm</td>
<td>20 ppm</td>
<td>20 ppm</td>
<td></td>
</tr>
<tr>
<td>N-hexane</td>
<td>110-54-3</td>
<td>500</td>
<td>1800</td>
<td>50 ppm</td>
<td></td>
<td></td>
<td></td>
<td>50 ppm</td>
<td></td>
</tr>
</tbody>
</table>

No other hazardous ingredients in this mixture appear on OSHA Annotated Tables Z-1, Z-2, or Z-3.
(b) Appropriate engineering controls:
Ventilation requirements: Use only outdoors or in a well-ventilated area.
General protective measures: Ensure that eye flushing /eye wash stations, and hand washing areas are accessible.

(c) Personal protective equipment:
Inhalation: Do not breathe fume/mist/ vapors/spray. Use only outdoors or in a well-ventilated area. Where fume/mist/ vapors/spray is present, an organic vapor full facepiece respirator is recommended (to protect eyes and face as well).
Ingestion: Avoid eating, drinking, or smoking in work area and wash hands after handling this product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

(a) Appearance (physical state, color): Gas or aerosol, colorless
(b) Odor: hydrocarbon
(c) Odor threshold: Data not available
(d) pH: NA
(e) Melting point/ freezing point: Data not available
(f) Initial Boiling point / Range: Data not available
(g) Flashpoint: -156 °F (~104 °C)
(h) Evaporation Rate: Data not available
(i) Flammability limits: lower: 1.3%, upper 7.2% estimated
(j) Explosion limits: Data not available
(k) Vapor Pressure: 75 psig @ 70 °F, estimated
(l) Vapor Density (Air = 1): Data not available
(m) Relative Density (H₂O = 1): .63, estimated
(n) Solubility: Immiscible in water
(o) Partition coefficient n-Octanol/ Water: Data not available
(p) Auto-ignition temperature: Data not available
(q) Decomposition temperature: Data not available
(r) Viscosity: Data not available

Other properties
VOC % (wt.): ~100

SECTION 10: STABILITY AND REACTIVITY INFORMATION

(a) Reactivity: Not reactive under normal storage conditions. See Section 7.
(b) Chemical stability: Mixture is chemically stable under normal storage and handling conditions, and under normal temperatures and pressures.
(c) Possibility of hazardous reactions: No data available
(d) Conditions to avoid: Keep away from sources of ignition, high heat, and direct sunlight.
(e) Incompatible materials: Strong oxidizers.
(f) Hazardous decomposition product: Carbon oxides are the main combustion gases.
SECTION 11: TOXICOLOGICAL INFORMATION

(a) Likely routes of exposure: Skin contact, eye contact, inhalation, ingestion.

(b) Symptoms related to physical, chemical, and toxicological characteristics:

Skin contact: Causes skin irritation;
Eye contact: Direct contact with eyes may cause temporary irritation.
Inhalation: May cause drowsiness or dizziness; May cause damage to organs <neurological> through prolonged or repeated exposure <<inhalation>>; May be fatal if swallowed and enters airways;
Ingestion: May cause genetic defects; May cause cancer; Suspected of damaging fertility or the unborn child; May be fatal if swallowed and enters airways;

(c) Delayed and immediate effects, and chronic effects from long-term exposure
No data available

(d) Numerical measures of toxicity, acute:

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS # (TS= trade secret)</th>
<th>Oral</th>
<th>Inhalation</th>
<th>Dermal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>Data not available</td>
<td>LC50 (15 min) 1442.738 - 1443 mg/L air (rat)</td>
<td>Data not available</td>
</tr>
<tr>
<td>Heptane,</td>
<td>426260-76-6</td>
<td>Data not available</td>
<td>Data not available</td>
<td>Data not available</td>
</tr>
<tr>
<td>Solvent naphtha</td>
<td>64742-89-8</td>
<td>LD50 5000 mg/kg bw (rat)</td>
<td>Data not available</td>
<td>LD50 2000 mg/kg bw (rabbit)</td>
</tr>
<tr>
<td>Cyclohexane</td>
<td>110-82-7</td>
<td>LD50 5000 mg/kg bw (rat)</td>
<td>LC50 (4 h) 32.88 mg/L air (rat)</td>
<td>LD50 2000 mg/kg bw (rabbit)</td>
</tr>
<tr>
<td>Naphtha (petroleum),</td>
<td>64742-48-9</td>
<td>LD50 5000 mg/kg bw (rat)</td>
<td>Data not available</td>
<td>LD50 2000 mg/kg bw (rabbit)</td>
</tr>
<tr>
<td>Heptane</td>
<td>142-82-5</td>
<td>LD50 5000 mg/kg bw (rat)</td>
<td>LC50 (4 h) 29.29 - 73.5 mg/L air (rat)</td>
<td>LD50 2000 mg/kg bw (rabbit)</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>LD50 5580 mg/kg bw (rat)</td>
<td>LC50 (4 h) 25.7 - 30 mg/L air (rat)</td>
<td>LD50 5000 mg/kg bw (rabbit)</td>
</tr>
<tr>
<td>N-hexane</td>
<td>110-54-3</td>
<td>LD50 24 - 49 mL/kg bw (rat)</td>
<td>LC50 (24 h) 5000 ppm (rat)</td>
<td>LD50 5 mL/kg bw (rabbit)</td>
</tr>
</tbody>
</table>

(e) Carcinogens information:
IARC, Group 1 (Carcinogenic to humans), Group 2A (Probably carcinogenic to humans), or Group 2B (Possibly carcinogenic to humans) by IARC: This mixture does not contain listed materials.
NTP, 13th Report on Carcinogens: This mixture does not contain listed materials.
OSHA: This mixture does not contain listed materials.

SECTION 12: ECOLOGICAL INFORMATION

(a) Ecotoxicity:
Classification of mixture:
  o Hazardous to the Aquatic Environment, Acute – Category 2
  o Hazardous to the Aquatic Environment, Chronic – Category 2

(b) Persistence and degradability: No data available
(c) Bioaccumulative potential: No data available.
(d) Mobility in soil: No data available
(e) **Other adverse effects:** No known adverse effects

**SECTION 13: DISPOSAL CONSIDERATIONS**

Dispose of contents/container in accordance with local/regional/national regulations. The hazard and precautionary statements displayed on the label also apply to any residues left in the container.

RCRA codes:
- Cyclohexane 110-82-7, U056
- Toluene 108-88-3, U220

**SECTION 14: TRANSPORT INFORMATION**

**US DOT (Ground):**
- (a) UN number: UN1950
- (b) UN Proper Shipping Name: Aerosol, flammable
- (c) Transport hazard class: 2.1
- (d) Packing Group: Not applicable
- (e) Environmental hazards: IMDG regulated marine pollutant
- (f) Transport in bulk
  - MARPOL 73/78: Data not available
  - IBC: Data not available
- (g) Special Precautions: Data not available

**SECTION 15: REGULATORY INFORMATION**

**U.S. Federal Regulations**

**TSCA Section 8(b) Inventory Status:** All ingredients of this mixture are listed on the TSCA Inventory

**EPCRA, Section 302 – Extremely hazardous substances:** This mixture does not contain listed materials.

**CERCLA Hazardous Substances:**
- Cyclohexane 110-82-7, RQ = 1000
- Toluene 108-88-3, RQ = 1000
- N-hexane 110-54-3, RQ = 5000

**EPCRA Section 313 Toxic Chemicals:**
- Cyclohexane 110-82-7
- Toluene 108-88-3
- N-hexane 110-54-3

**CAA 112(r) Regulated Chemicals for Accidental Release Prevention:**
- Propane 74-98-6, TQ = 10,000

**Hazardous Air Pollutants (HAP):**
- Toluene 108-88-3
U.S. State Regulations

California Proposition 65:
⚠️ WARNING: This product can expose you to chemicals including toluene, which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov. Complete list:
  - Toluene 108-88-3

New Jersey Right to Know:
  - Propane 74-98-6
  - Cyclohexane 110-82-7
  - Heptane 142-82-5
  - Toluene 108-88-3
  - N-hexane 110-54-3

Oregon DEQ List of Air Toxic Contaminants:
  - Toluene 108-88-3

Pennsylvania Right to Know:
  - Propane 74-98-6
  - Cyclohexane 110-82-7
  - Heptane 142-82-5
  - Toluene 108-88-3
  - N-hexane 110-54-3

Canadian Environmental Protection Act:
WHMIS Classification: No data available

European Chemical Agency (ECHA): This mixture does not contain listed materials.

SECTION 16: OTHER INFORMATION
The information herein is presented in good faith, based on the data available to us and is believed to be correct as of the date hereof. However, Gans Ink and Supply Co., Inc. makes no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Gans Ink and Supply Co., Inc. assumes no responsibility for any damages of any nature directly or indirectly resulting from the use of or reliance upon the information contained herein. Users must make their own determination as to the suitability of the product for their purpose prior to use. In accordance with good practices of personal cleanliness and hygiene, handle with due care and avoid unnecessary contact with this product.