1. Product and Company Identification

Product Code: C33V
Product Name: Silicone Spray
Company Name: CYCLO INDUSTRIES, INC.
902 SOUTH US HIGHWAY 1
JUPITER, FL  33477
Phone Number: (800)843-7813
Web site address: www.cyclo.com
Email address: ehs@cyclo.com
Emergency Contact: First Aid Emergency
CHEMTREC (703) 527-3887 (800)424-9300
Information: First Aid Emergency (Outside U.S.) (312)906-6194
Intended Use: Silicone

2. Hazards Identification

Flammable Aerosols, Category 1
Skin Corrosion/Irritation, Category 2
Specific Target Organ Toxicity (single exposure), Category 3
Aspiration Toxicity, Category 1

GHS Signal Word: Danger
GHS Hazard Phrases:
H222: Extremely flammable aerosol.
H304: May be fatal if swallowed and enters airways.
H315: Causes skin irritation.
H336: May cause drowsiness or dizziness
H410: Toxic to aquatic life with long lasting effects
H229: Pressurized container: May burst if heated.

GHS Precaution Phrases:
P210: Keep away from heat/sparks/open flames/hot surfaces - No smoking.
P211: Do not spray on open flame or any other ignition source.
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P251: Pressurized container: Do not pierce or burn even after use.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P264: Wash hands thoroughly after handling.
P362+364: Take off contaminated clothing and wash it before reuse.
P271: Use only outdoors or in a well-ventilated area.
P273: Avoid release to the environment.
P280: Wear protective gloves/clothing and eye/face protection.

GHS Response Phrases:
P370+378: In case of fire, use foam, alcohol foam, carbon dioxide, dry chemical or water fog for extinction.
P370+378: In case of fire, use foam, alcohol foam, carbon dioxide, dry chemical or water fog for extinction.
P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P363: Wash contaminated clothing before reuse.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P309+311: Call a POISON CENTER or doctor/physician if exposed or you feel unwell.

GHS Storage and Disposal Phrases:
P403+233: Store container tightly closed in well-ventilated place.
P410+412: Protect from sunlight. Do not expose to temperatures exceeding 50C/122F.
P501: Dispose of contents/container in accordance with local/regional/national/international regulation.

Medical Conditions Generally Aggravated By Exposure: None known when used as directed.

### 3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Hazardous Components (Chemical Name)</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>64742-47-8</td>
<td>Hydrotreated light distillate (petroleum)</td>
<td>32.0 %</td>
</tr>
<tr>
<td>142-82-5</td>
<td>Heptane</td>
<td>30.0 %</td>
</tr>
<tr>
<td>74-98-6</td>
<td>Propane</td>
<td>30.0 %</td>
</tr>
</tbody>
</table>

### 4. First Aid Measures

Emergency and First Aid Procedures:
If swallowed, induce vomiting only on the advice of a physician. If inhaled, remove to fresh air. Administer oxygen if needed. Apply artificial respiration if breathing has stopped. In case of skin contact, wipe off with towel. Wash area with soap and water. If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call physician immediately if adverse reaction occurs.

### 5. Fire Fighting Measures

Flash Pt: NE -156.00 F (-104.4 C) Method Used: Estimate
Explosive Limits: LEL: .7 UEL: 9.5
Autoignition Pt: No data.
Suitable Extinguishing Media: Foam, CO2, dry chemical, water fog.

Fire Fighting Instructions: Wear goggles and self-contained breathing apparatus. Water spray may be ineffective. Water may be used to cool containers to prevent pressure build-up and explosion when exposed to extreme heat. If water is used, fog nozzles preferred.

Flammable Properties and Hazards: Closed containers may explode from internal pressure build-up when exposed to extreme heat and discharge contents. Vapor accumulation can flash or explode if ignited. Overexposure to decomposition products may cause a health hazard. Symptoms may not be readily apparent. Obtain medical attention.

Hazardous Combustion Products: No data available.
6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled:
Avoid breathing vapors. Ventilate area. Remove all sources of ignition. Clean up area with absorbent material and place in closed containers for disposal.

7. Handling and Storage

Precautions To Be Taken in Handling:
Keep away from heat/sparks/open flames/hot surfaces - No smoking. Do not spray on open flame or any other ignition source. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Pressurized container: Do not pierce or burn even after use. Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/clothing and eye/face protection. Keep out of the reach of children.

Precautions To Be Taken in Storing:
Store container tightly closed in well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50C/122F.

8. Exposure Controls/Personal Protection

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Partial Chemical Name</th>
<th>OSHA TWA</th>
<th>ACGIH TWA</th>
<th>Other Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>64742-47-8</td>
<td>Hydrotreated light distillate (petroleum)</td>
<td>PEL: 1000 ppm</td>
<td>TLV: 200 mg/m3</td>
<td>No data.</td>
</tr>
<tr>
<td>142-82-5</td>
<td>Heptane</td>
<td>PEL: 500 ppm</td>
<td>TLV: 400 ppm</td>
<td>No data.</td>
</tr>
<tr>
<td>74-98-6</td>
<td>Propane</td>
<td>PEL: 1000 ppm</td>
<td>TLV: (2500 ppm)</td>
<td>No data.</td>
</tr>
</tbody>
</table>

Respiratory Equipment (Specify Type):
Avoid breathing vapors. Use with adequate ventilation equal to out of doors. In restricted areas, use approved chemical/mechanical filters designed to remove a combination of particles and vapor. In confined areas, use approved air line type respirator or hood. Self-contained breathing apparatus is required for vapor concentrations above PEL/TLV limits.

Eye Protection:
Use of safety glasses with splash guards or full face shield is recommended.

Protective Gloves:
Solvent resistant gloves required for prolonged or repeated contact.

Other Protective Clothing:
Use of solvent resistant aprons or other clothing is recommended.

Engineering Controls (Ventilation etc.):
Sufficient to prevent inhalation of solvent vapors. General dilution and/or local exhaust ventilation in volume or pattern to keep PEL/TLV of most hazardous ingredient below acceptable limit and LEL below stated limit.

Work/Hygienic/Maintenance Practices:
Eye washes and safety showers in the workplace are recommended.

9. Physical and Chemical Properties

Physical States: [ ] Gas [x] Liquid [ ] Solid
Appearance and Odor: Concentrate is clear liquid.
pH: No data.
Melting Point: No data.
Boiling Point: -44.00 F (-42.2 C) - -410.00 F (-245.6 C)
Flash Pt: NE -156.00 F (-104.4 C) Method Used: Estimate
Evaporation Rate: No data.
Flammability (solid, gas): No data available.
Explosive Limits: LEL: .7 UEL: 9.5
Vapor Pressure (vs. Air or mm Hg): No data.
Vapor Density (vs. Air = 1): > air
10. Stability and Reactivity

Stability: Unstable [ ] Stable [ X ]

Conditions To Avoid - Instability: Application to hot surfaces. Storage above 120 degrees F. Exposure to open flame.

Incompatibility - Materials To Avoid: Strong oxidizing agents.

Hazardous Decomposition or Byproducts: Fumes may contain carbon monoxide and other toxic fumes.

Possibility of Hazardous Reactions: Will occur [ ] Will not occur [ X ]

Conditions To Avoid - Hazardous Reactions: No data available.

11. Toxicological Information

Toxicological Information: CAS# 142-82-5:

Other Studies:, TDLo, Oral, Rat, 60.00 GM/KG, 3 W.
Results:
Kidney, Ureter, Bladder: Changes in liver weight.
- National Technical Information Service, Vol/p/yr: OTS0571116,

Other Studies:, TDLo, Oral, Rat, 260.0 GM/KG, 13 W.
Results:
Kidney, Ureter, Bladder: Changes in bladder weight.
Endocrine: Hypoglycemia.
Nutritional and Gross Metabolic: Weight loss or decreased weight gain.
- National Technical Information Service, Vol/p/yr: OTS0571116,

Other Studies:, TCLo, Inhalation, Rat, 4000. PPM, 6 D.
Results:
Brain and Coverings: Recordings from specific areas of CNS.
Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Ear: Changes in cochlear structure or function.
Nutritional and Gross Metabolic: Weight loss or decreased weight gain.
- Pharmacology and Toxicology, Munksgaard International Pub., POB 2148, Copenhagen K Denmark, Vol/p/yr: 76,41, 1995

Other Studies:, TDLo, Intraperitoneal, Rat, 9625. MG/KG, 7 D.
Results:
Liver: Other changes.
Blood: Changes in serum composition (e.g. Biochemical: Enzyme inhibition, induction, or change in blood or tissue levels: Multiple enzyme effects.
- Toxicology Letters., Elsevier Science Pub. B.V., POB 211, 1000 AE, Amsterdam 1000
AE Netherlands, Vol/p/yr: 14,169, 1982

Other Studies.; TDLo, Intraperitoneal, Rat, 8840. MG/KG, 45 D.
Results:
Liver: Other changes.
Biochemical: Enzyme inhibition, induction, or change in blood or tissue levels:
Phosphatases.
Biochemical: Enzyme inhibition, induction, or change in blood or tissue levels: Hepatic microsomal mixed oxidase (dealkylation, hydroxylation, etc.)
- JAT, Journal of Applied Toxicology., John Wiley & Sons Ltd., Baffins Lane, Chichester, W.Sussex PO19 1UD UK, Vol/p/yr: 8,81, 1988

Acute toxicity, TCLo, Inhalation, Human, 1000. PPM, 6 M.
Results:
Behavioral: Hallucinations, distorted perceptions.

Acute toxicity, LC50, Inhalation, Rat, 103.0 GM/M3, 4 H.
Results:
Behavioral: Change in motor activity (specific assay).
Behavioral: Alteration of classical conditioning.
- Gigiiena Truda i Professional'nye Zabolevaniya.(Labor Hygiene and Occupational Disease), V/O Mezhdunarodnaya Kniga, Moscow 113095 Russia, Vol/p/yr: 32(10),23, 1988

Acute toxicity, LCLO, Inhalation, Mouse, 59.00 GM/M3, 41 M.
Results:
Behavioral: Convulsions or effect on seizure threshold.
- Biochemische Zeitschrift., For publisher information, see EJBCAI, Berlin Germany, Vol/p/yr: 115,235, 1921

Acute toxicity, LD50, Intravenous, Mouse, 222.0 MG/KG.
Results:
Brain and Coverings: Changes in circulation (hemorrhage,thrombosis, etc.
Lungs, Thorax, or Respiration:Dyspnea.
Gastrointestinal:Nausea or vomiting.

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Hazardous Components (Chemical Name)</th>
<th>NTP</th>
<th>IARC</th>
<th>ACGIH</th>
<th>OSHA</th>
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<tbody>
<tr>
<td>64742-47-8</td>
<td>Hydrotreated light distillate (petroleum)</td>
<td>n.a.</td>
<td>n.a.</td>
<td>A4</td>
<td>n.a.</td>
</tr>
<tr>
<td>142-82-5</td>
<td>Heptane</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
<tr>
<td>74-98-6</td>
<td>Propane</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
</tbody>
</table>
## 12. Ecological Information

### General Ecological Information:

CAS# 142-82-5:
Effective concentration to 50% of test organisms., Water Flea (Daphnia magna), 82500. UG/L, 96 H, Intoxication., Water temperature: 28.00 C (82.4 F) C.

**Results:**

LC50, Water Flea (Daphnia magna), 50.00 MG/L, 24 H, Intoxication., Water temperature: 20.00 C (68.0 F) - 22.00 C (71.6 F) C, pH: 7.70, Hardness: 16.00 dH.

**Results:**
- Results of the Damaging Effect of Water Pollutants on Daphnia magna (Befunde der Schadwirkung Wassergefahrdender Stoffe Gegen Daphnia magna), Bringmann, G., and R. Kuhn, 1977

LC50, Western Mosquitofish (Gambusia affinis), adult(s), 4924000. UG/L, 48 H, Mortality, Water temperature: 20.00 C (68.0 F) - 27.00 C (80.6 F) C, pH: 8.90.

**Results:**
- Toxicity to Gambusia affinis of Certain Pure Chemicals in Turbid Waters, Wallen, I.E., W.C. Greer, and R. Lasater, 1957

LC50, Western Mosquitofish (Gambusia affinis), adult(s), 4924000. UG/L, 24 H, Mortality, Water temperature: 20.00 C (68.0 F) - 27.00 C (80.6 F) C, pH: 8.90.

**Results:**
- Toxicity to Gambusia affinis of Certain Pure Chemicals in Turbid Waters, Wallen, I.E., W.C. Greer, and R. Lasater, 1957

Not reported., Western Mosquitofish (Gambusia affinis), adult(s), 5600000. UG/L, 96 H, Mortality, Water temperature: 20.00 C (68.0 F) - 27.00 C (80.6 F) C, pH: 8.90.

**Results:**
- Toxicity to Gambusia affinis of Certain Pure Chemicals in Turbid Waters, Wallen, I.E., W.C. Greer, and R. Lasater, 1957

LC50, Western Mosquitofish (Gambusia affinis), adult(s), 4924000. UG/L, 96 H, Mortality, Water temperature: 20.00 C (68.0 F) - 27.00 C (80.6 F) C, pH: 8.90.

**Results:**
- Toxicity to Gambusia affinis of Certain Pure Chemicals in Turbid Waters, Wallen, I.E., W.C. Greer, and R. Lasater, 1957

Not reported., Coho Salmon, Silver Salmon (Oncorhynchus kisutch), 100000. UG/L, 96 H, Mortality, Water temperature: 8.00 C (46.4 F) C, pH: 8.10.

**Results:**
- Effects of Some Components of Crude Oil on Young Coho Salmon, Morrow, J.E., R.L. Gritz, and M.P. Kirton, 1975
LC50, Mozambique Tilapia (Oreochromis mossambicus), 375000. UG/L, 96 H, Mortality.
Water temperature: 27.80 C (82.0 F) C.
Results:
No observed effect.

- Acute Toxicity of n-Heptane and n-Hexane on Worm and Fish, Ghatak, D.B., M.M.
Hossain, and S.K. Konar, 1988

LC50, Midge Family (Chironomidae), larva(e), 838000. UG/L, 96 H, Intoxication.,
Water temperature: 28.00 C (82.4 F) C, pH: 7.00, Hardness: 260.00 MG/L.
Results:
No observed effect.

- Acute Toxicity of Petroleum Products, Crude Oil and Oil Refinery Effluent on Plankton,

Effective concentration to 50% of test organisms., Algae (Algae), 1500. UG/L, 8 H,
Physiology.
Results:
No observed effect.

- Gulf Underwater Flare Experiment (GUFEX): Effects of Hydrocarbons on

Not reported., Pacific Oyster (Crassostrea gigas), egg(s), 3400000. UG/L, 48 H, Mortality,
Water temperature: 20.00 C (68.0 F) - 21.50 C (70.7 F) C.
Results:
No observed effect.

- The Effect of Alaskan Crude Oil and Selected Hydrocarbon Compounds on Embryonic
Development of the Pacific Oyster, Crassostrea gigas, Legore, R.S., 1974

LC50, Oligochaete (Branchiura sowerbyi), 2500000. UG/L, 96 H, Mortality, Water
temperature: 27.80 C (82.0 F) C.
Results:
No observed effect.

- Acute Toxicity of n-Heptane and n-Hexane on Worm and Fish, Ghatak, D.B., M.M.
Hossain, and S.K. Konar, 1988

Effective concentration to 50% of test organisms., Snail (Viviparus bengalensis), 472000.
UG/L, 96 H, Intoxication., Water temperature: 28.00 C (82.4 F) C.
Results:
No observed effect.

- Acute Toxicity of Petroleum Products, Crude Oil and Oil Refinery Effluent on Plankton,

Lethal concentration to 0% of test organisms., Carp (Leuciscus idus ssp. melanotus),
220.0 MG/L, 48 H, Mortality.
Results:
No observed effect.

- Results of the Investigation of 200 Chemical Compounds for Acute Fish Toxicity with
the Golden Orfe Test (Ergebnisse der Untersuchung von 200 Chemischen Verbindungen
auf Akute Fischtoxizitat mit dem Goldorfentest), Juhnke, I., and D. Luedemann, 1978

LC50, Carp (Leuciscus idus ssp. melanotus), 270.0 MG/L, 48 H, Mortality.
Results:
No observed effect.

MIRS MSDS, (c) A V Systems, Inc.
Silicone Spray

SAFETY DATA SHEET

13. Disposal Considerations

Waste Disposal Method: Dispose of contents/container in accordance with local/regional/national/international regulation.

14. Transport Information

LAND TRANSPORT (US DOT):
- DOT Proper Shipping Name: Aerosols, 2.1, Ltd. Qty
- DOT Hazard Class: 2.1 FLAMMABLE GAS
- UN/NA Number: UN1950

LAND TRANSPORT (European ADR/RID):
- ADR/RID Shipping Name: Aerosols, 2.1, Ltd. Qty
- UN Number: 1950
- Hazard Class: 2.1 - FLAMMABLE GAS
- ADR Classification: 2.1
15. Regulatory Information

### EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Hazardous Components (Chemical Name)</th>
<th>S. 302 (EHS)</th>
<th>S. 304 RQ</th>
<th>S. 313 (TRI)</th>
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<tbody>
<tr>
<td>64742-47-8</td>
<td>Hydrotreated light distillate (petroleum)</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>142-82-5</td>
<td>Heptane</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>74-98-6</td>
<td>Propane</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

### Other US EPA or State Lists

- **Hydrotreated light distillate (petroleum)**
  - CAA HAP/ODC: No;  CWA NPDES: No;  TSCA: Yes - Inventory;  CA PROP.65: No;  CA TAC, Title 8: No;  MA Oil/HazMat: No;  MI CMR, Part 5: No;  NC TAP: No;  NJ EHS: No;  NY Part 597: No;  PA HSL: No;  SC TAP: No;  WI Air: No

- **Heptane**
  - CAA HAP/ODC: No;  CWA NPDES: No;  TSCA: Yes - Inventory, 4 Test, 8A PAIR;  CA PROP.65: No;  CA TAC, Title 8: Yes;  MA Oil/HazMat: Yes;  MI CMR, Part 5: No;  NC TAP: No;  NJ EHS: No;  NY Part 597: No;  PA HSL: Yes - 1;  SC TAP: No;  WI Air: No

- **Propane**
  - CAA HAP/ODC: No;  CWA NPDES: No;  TSCA: Yes - Inventory;  CA PROP.65: No;  CA TAC, Title 8: No;  MA Oil/HazMat: Yes;  MI CMR, Part 5: No;  NC TAP: No;  NJ EHS: Yes - 1594;  NY Part 597: No;  PA HSL: Yes - 1;  SC TAP: No;  WI Air: No

### International Regulatory Lists

- **Hydrotreated light distillate (petroleum)**
  - Canadian DSL: Yes;  Canadian NDSL: No;  Taiwan TCSCA: Yes

- **Heptane**
  - Canadian DSL: Yes;  Canadian NDSL: No;  Taiwan TCSCA: Yes

- **Propane**
  - Canadian DSL: Yes;  Canadian NDSL: No;  Taiwan TCSCA: Yes
16. Other Information

Revision Date: 08/23/2017

Hazard Rating System:

<table>
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<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>REACTIVITY</th>
<th>PPE</th>
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<tbody>
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</table>

HMIS:

Additional Information About This Product: No data available.

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