



# CYCLO<sup>®</sup> INDUSTRIES, LLC

## MATERIAL SAFETY DATA SHEET

This MSDS is being provided to your company for the purpose of providing current health and safety information to your management and for your employees who work with this product. Please read the information on these sheets and then provide this information to those people at your company whose responsibility it is to comply with FEDERAL, STATE and COMMUNITY RIGHT TO KNOW regulations. Also, make this information available to any employee who requests it.

If Cyclo Industries, LLC considers the formula of this product to be a trade secret, the exact chemical names of the ingredient(s) and the percentages in which they are combined will not appear in the body of this sheet. The exact composition is available upon request to physicians, industrial hygienists and other health professionals.

### SECTION I – PRODUCT & COMPANY IDENTIFICATION

**Product Name:** Cyclo<sup>®</sup> Carb Clean<sup>®</sup>, Stock Nos. C-1 & C-5

**Product Use:** Dissolves gum, varnish and carbon to restore carburetor and engine performance. Cleaner for throttle plate area of fuel injected vehicles, vacuum piston and cylinder, and PCV valve.

**Manufactured by:** Cyclo Industries, LLC, 401 Maplewood Drive, Suite 18, Jupiter, FL 33458  
Telephone: (561) 775-9600

**First Aid Emergency:** (800) 752-7869 or (312) 906-6194

**Shipping Emergency:** (800) 424-9300 or (703) 527-3887 (CHEMTREC)

**HMIS Code:** Health = 2\*                      Flammability = 3                      Physical Hazard = 2

**NFPA Code:** Health = 2                      Flammability = 3                      Reactivity = 0

### SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

CAS Reg. No.	Material	Percentage	Exposure Limits
67-64-1	Acetone	40 – 50	500 ppm = ACGIH TLV TWA 750 ppm = OSHA PEL Ceiling Limits 750 ppm = ACGIH TLW STEL 1000 ppm = OSHA PEL TWA
108-88-3	Toluene	20 – 30	100 ppm = OSHA PEL TWA & ACGIH TLV TWA 150 ppm = OSHA PEL Ceiling Limits 150 ppm = ACGIH TLW STEL
142-82-5	Heptane	10 – 20	500 ppm: 2000 mg/m <sup>3</sup> = OSHA PEL TWA 400 ppm: 1640 mg/m <sup>3</sup> = ACGIH TLV TWA 500 ppm = ACGIH TLW STEL
124-38-9	Carbon Dioxide	5 – 15	5000 ppm (exposures <10,000 ppm to be cited de minimus) = OSHA PEL TWA 5000 ppm = ACGIH TLV TWA 30,000 ppm = ACGIH TLW STEL

**SECTION 3 – HAZARDS IDENTIFICATION**

**Emergency Overview:** Danger: Extremely flammable. Contents under pressure. Harmful or fatal if swallowed. Vapor Harmful. Keep away from heat, sparks and flame. Can cause nervous system depression.

**Carcinogenicity:** NTP Carcinogen = No; IARC Monographs = No; OSHA Regulated = No

**SECTION 4 – FIRST AID MEASURES****First Aid Procedures:**

**Ingestion:** Seek medical attention immediately. Aspiration hazard: DO NOT induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Do not leave individual unattended.

**Skin Contact:** Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use. Get medical attention if irritation persists.

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

**Eye Contact:** Immediately flush eyes with large amounts of water for at least 15 minutes while holding eyelids open. Get medical attention immediately.

**SECTION 5 – FIRE FIGHTING MEASURES**

**Flash Point:** <0°F (<-20°C) **Method Used:** TAG Closed Cup

**Flammable Limits in Air by Volume:** Lower Explosion Limit (LEL) = Not determined  
Upper Explosion Limit (UEL) = Not determined

**Extinguishing Media:** Carbon dioxide, dry chemical, foam.

**Special Fire Fighting Procedures:** Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

**Hazardous Combustion Products:** Carbon dioxide, carbon monoxide

**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

**Personal Protection:** Wear appropriate protective clothing and equipment to prevent skin and eye contact.

**Spill/Leak Procedures:** Contain any liquid from leaking containers. Wear protective equipment specified. Remove all sources of ignition. Ventilate the area. Do not puncture or incinerate container. Contents under pressure. Clean up using dry procedures; avoid dusting. Sweep or gather up material and place improper container for disposal or recovery.

**Environmental Precautions:** Do not allow to enter sanitary drains, sewer or surface and subsurface waters.

## SECTION 7 – HANDLING AND STORAGE

**Handling & Storage Procedures:** Danger: Extremely flammable. Caution: Contents under pressure. Keep away from heat, sparks and open flame. Vapors will accumulate readily and may ignite explosively. During use and until all vapors are gone: Keep area ventilated – Do NOT smoke. Extinguish all flames, pilot lights and heaters. Turn off stoves, electric tools and appliances and any other sources of ignition. Use approved Bonding and Grounding procedures. Contents under pressure. Do NOT puncture, incinerate or expose to temperatures above 120°F (49°C). Heat from sunlight, radiators, stoves, hot water and other heat sources could cause container to burst. Do not store in passenger compartment of automobile. Do NOT take internally. See product label for additional information. **KEEP OUT OF THE REACH OF CHILDREN.**

## SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

**Precautions To Be Taken In Use:** Use only with adequate ventilation. Avoid contact with skin and eyes. Avoid breathing vapor and spray mist. Wash hands after using. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

**Respiratory Protection:** If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

**Ventilation:** Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

**Protective Gloves:** None required for normal application of aerosol products where minimum skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

**Eye Protection:** Safety glasses with unperforated sideshields.

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

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

**Boiling Point:** Not determined

**Specific Gravity (H<sub>2</sub>O=1):** Not determined

**Vapor Density (Air=1):** Not determined

**Evaporation Rate (Butyl Acetate = 1):** Not determined

**Appearance and Odor:** Clear, colorless aerosol product with solvent odor.

**Solubility in Water:** Negligible

**Volatile Organic Compound (VOC) (as packaged minus water):** 44.9%

## SECTION 10 – STABILITY AND REACTIVITY

**Stability:** Stable

**SECTION 10 – STABILITY AND REACTIVITY continued**

**Conditions to Avoid:** Keep away from heat, sparks and flames. Temperatures over 120°F.

**Incompatibility (materials to avoid):** Strong acids, strong oxidizing agents.

**Hazardous Decomposition or Byproducts:** By fire – carbon dioxide, carbon monoxide

**Hazardous Polymerization:** Will not occur.

**SECTION 11 – TOXICOLOGICAL INFORMATION****Toxicological Data:**

Ingredient/CAS No.	Weight %	Route	Species	Dose
Acetone / 67-64-1	40 – 50	Inhalation	Rats	LC50 50100 mg/m3/8H
Toluene / 108-88-3	20 - 30	Inhalation	Rats	LC50 49 gm/m3/4H
Heptane / 142-82-5	10 – 20	Inhalation	Rats	LC50 103 gm/m3/4H

**SECTION 12 – ECOLOGICAL INFORMATION**

**Aquatic/Terrestrial Toxicity Environmental Fate** No data is available at this time.

**SECTION 13 – DISPOSAL CONSIDERATIONS**

**Waste Disposal Method:** Dispose of in accordance with local, state and federal regulations. Before attempting clean up, refer to other sections of this MSDS for hazard caution information.

**SECTION 14 – TRANSPORT INFORMATION****U.S. DOT**

**Shipping Description:** Aerosols  
**ID Number:** Not applicable  
**Hazard Class:** ORM-D  
**Packing Group:** Not applicable  
**Label:** Not applicable  
**Placards:** Not applicable

**IMDG**

**Shipping Description:** Aerosols, Ltd. Qty.  
**ID Number:** UN1950  
**Hazard Class:** 2  
**Packing Group:** Not applicable  
**Label:** Not applicable  
**Markings:** Not applicable  
**Placards:** Not applicable

**SECTION 15 – REGULATORY INFORMATION**

**TSCA Inventory:** All components of this product are listed on the Toxic Substance Control Act (TSCA) Inventory of chemical substances maintained by the U.S. Environmental Protection Agency.

<b>SECTION 15 – REGULATORY INFORMATION continued</b>
--

**SARA Extremely Hazardous Substances (Section 302 of Title III – 29 CFR Part 1910,1200(c)):** None

**SARA Toxic Release Chemicals (Section 313 of Title III – 40 CFR Part 372):** This product contains the following toxic chemical subject to the reporting requirements:

<u>Chemical Name</u>	<u>CAS#</u>	<u>Weight %</u>
Toluene	108-88-3	10 - 20

**CERCLA/Superfund (RQ):**

<u>Chemical Name</u>	<u>CAS#</u>	<u>RQ</u>
Toluene	108-88-3	1000 lbs.
Acetone	67-64-1	5000 lbs.

**California Proposition 65:**

<u>Chemical Name</u>	<u>CAS#</u>	<u>Weight %</u>
Toluene	108-88-3	10 – 20

<b>SECTION 16 – OTHER INFORMATION</b>
---------------------------------------

**Document Date:** 12/29/05

**Supersedes:** 1/31/05

**Revisions:** Section 1 – address; Section 2 – added Heptane and Carbon dioxide. Removed Propane, Xylene, Methanol and Ethylbenzene; Section 5 – changed flammable limits. Section 9 – updated Specific Gravity, Boiling Point, Vapor Density, VOC.

Cyclo Industries, LLC provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgement in determining its appropriateness for a particular purpose. Cyclo Industries, LLC makes no representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose with respect to the information set forth herein or to the product to which the information refers. Accordingly, Cyclo Industries, LLC will not be responsible for damages resulting from use of or reliance upon this information.