

# CYCLO<sup>®</sup> INDUSTRIES, LLC

## MATERIAL SAFETY DATA SHEET

10190 Riverside Drive, Palm Beach Gardens, Florida 33410-4881  
Phone: (561) 775-9600

First Aid Emergency: (800) 752-7869 Ext. 10 (USA only)  
Outside USA call collect 1 (312) 942-5969 Ext. 10  
Shipping Emergency: (800) 424-9300

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 1 — PRODUCT IDENTIFICATION

Product Name: C-120 Cyclo<sup>®</sup> Battery Cleaner & Leak Detector

Common Code #: L-08942

Hazardous Material Description: DOT - Consumer Commodity ORM-D, Freight Class 55  
IMDG - Aerosols, Limited Quantity, Class 2, UN1950

HMIS Code: HEALTH = 1 FLAMMABILITY = 2 REACTIVITY = 0

### SECTION 2 — PHYSICAL DATA

Boiling Range: -44°F - 212°F

Specific Gravity (H<sub>2</sub>O=1): 0.98

Vapor Pressure: mm Hg @ Temp  
Butane 1640 68  
Propane 6350 68

Vapor Density: Heavier than air

Percent Volatile By Volume (%): 99

Solubility in Water: Complete

Evaporation Rate: Water

Appearance and Odor: Aerosol Product

Volatile Organic Compound (VOC) (as packaged minus water): 6%

## SECTION 3 — HAZARDOUS INGREDIENTS

CAS Reg No.	Material	Percentage	Exposure Level
106-97-8	Butane	0 - 5	800 ppm / OSHA PEL & ACGIH TLV
74-98-6	Propane	2	1000 ppm / OSHA PEL Asphyxiant / ACGIH TLV

## SECTION 4 — FIRE AND EXPLOSION HAZARD DATA

Flash Point: -156°F Method Used: Estimated

Flammable Limits In Air By Volume: Lower = 1.9 Upper = 9.5

Extinguishing Media: Foam, alcohol foam, CO<sub>2</sub>, dry chemical, water fog.

## Special Fire Fighting Procedures:

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. Wear goggles and self-contained breathing apparatus.

## Unusual Fire and Explosion Hazards:

Closed containers may explode from internal pressure build-up when exposed to extreme heat and discharge contents. Liquid content of container will not support combustion. Overexposure to decomposition products may cause a health hazard. Symptoms may not be readily apparent. Obtain medical attention.

## SECTION 5 — HEALTH HAZARD DATA

## Effects of Overexposure:

Ingestion: Not a likely route of exposure.  
 Inhalation: Respiratory irritation, headache, nausea, fatigue, drowsiness, impaired coordination.  
 Skin Contact: May dry the skin. Prolonged contact may cause irritation. Can be absorbed. Solvent action can dry and defat the skin causing the skin to crack, leading to dermatitis.  
 Eye Contact: Liquid or vapor can irritate.

## Health Hazards:

ACUTE: Eye and skin irritant.  
 CHRONIC: Unknown

## Carcinogenicity:

NTP Carcinogen=No IARC Monographs=NO OSHA Regulated = No

Medical Conditions Generally Aggravated By Exposure: None known.

**SECTION 5 — HEALTH HAZARD DATA continued**

## First Aid Procedures:

- Ingestion: Do NOT induce vomiting. Seek immediate medical advice and/or attention.
- Skin Contact: Wipe off with towel. Wash with soap and water. Get medical attention if irritation persists.
- Inhalation: Remove to fresh air. Administer oxygen if needed. Apply artificial respiration if breathing has stopped. Get medical attention.
- Eye Contact: Wash immediately with large volumes of fresh water for at least 15 minutes. Get medical attention.

**SECTION 6 — REACTIVITY DATA**

Stability: Stable

Conditions to Avoid: Application to hot surfaces. Storage above 120°F. Exposure to flame.

Incompatibility (materials to avoid): Oxidizing agents.

## Hazardous Decomposition Products:

May produce fumes when heated to decomposition. Fumes may contain carbon monoxide.

Hazardous Polymerization: Will not occur.

**SECTION 7 — SPECIAL PROTECTION INFORMATION**

## Respiratory Protection:

None under normal use. Avoid breathing vapors. 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 respiration or hood. Self-contained breathing apparatus is required for vapor concentrations above PEL/TLV limits.

## Ventilation:

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

## Protective Gloves:

None under normal use. Solvent resistant required for prolonged or repeated contact.

## Eye Protection:

None under normal use, however, use of safety glasses with splash guards or full face shield is recommended.

## Other Protective Equipment:

None under normal use, however, use of solvent resistant aprons or other clothing is recommended.

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

## SECTION 8 — SPILL OR LEAK PROCEDURES

### 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.

### 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 9 — SPECIAL PRECAUTIONS

### Precautions To Be Taken In Handling and Storage:

Store and use in cool, dry, well-ventilated areas. Do not store above 120°F. Do not puncture or incinerate (burn) can. Do not stick pin, nail or any other sharp object into opening on top of can. Do not spray in eyes. Do not take internally. See product label for additional information.

### Other precautions:

The storage of non-flammable products with non-flammable or flammable pressurizing agent, in cartons, is the same as for ordinary canned goods in cartons.

Date entered: 2/13/97

Date revised: 6/17/97

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.