

CYCLO[®] INDUSTRIES, LLC

MATERIAL SAFETY DATA SHEET

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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-111C Cyclo[®] Brake & Parts Clean[®] Non- Chlorinated Product Code: L-08944

Hazardous Material Description: DOT = Aerosols, Consumer Commodity ORM-D
IMDG = Aerosols, 2, UN1950, Ltd. Qty.

HMIS Code: HEALTH=2 FLAMMABILITY=4 REACTIVITY=0

SECTION 2 — PHYSICAL DATA

Boiling Range: 133 - 231°F Specific Gravity (H₂O=1): 0.78

Vapor Pressure: mm Hg @ TEMP
 Acetone 181.0 68°F
 Heptane 40.0 72°F
 Toluene 10.0 81°F
 Carbon Dioxide 38650.060°F

Vapor Density: Unknown

Solubility in Water: Slight

Evaporation Rate (Butyl Acetate = 1): Unknown

Appearance and Odor: Aerosol product

Volatile Organic Compound (VOC) (as packaged minus water): 45%

SECTION 3 — HAZARDOUS INGREDIENTS

CAS Reg No.	Material	Percentage	Exposure Limits
142-82-5	Heptane	30 - 40	400 ppm (OSHA PEL) 400 ppm (ACGIH TLV)
67-64-1	Acetone	40 - 50	750 ppm (OSHA PEL) 750 ppm (ACGIH TLV)
108-88-3	* Toluene	5 - 15	200 ppm (OSHA PEL) 100 ppm (ACGIH TLV) 200 ppm (ACC)
124-38-9	Carbon Dioxide	6	10,000 ppm (OSHA PEL) 5,000 ppm (ACGIH TLV)

* Indicates toxic chemical(s) subject to the reporting requirements of Section 313 of Title III and of 40 CFR 372.

SECTION 4 — FIRE AND EXPLOSION HAZARD DATA

Flash Point: 1°F

Method Used: TCC

Flammable Limits In Air By Volume: Lower = 1.2 Upper = 13

Extinguishing Media: Foam, alcohol foam, CO₂, 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. 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.

SECTION 5 — HEALTH HAZARD DATA

Effects of Overexposure:

Ingestion: Can cause gastro-intestinal irritation, vomiting, diarrhea and death. If swallowed, call a physician immediately. Only induce vomiting at the direction of a physician.

Inhalation: Respiratory irritation, headache, nausea, fatigue, drowsiness, impaired coordination, possible unconsciousness. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

Skin Contact: May dry the skin. Prolonged contact may cause irritation. May be absorbed. Solvent action can dry and defat the skin causing the skin to crack, leading to dermatitis.

Eye Contact: Liquid or vapor can cause severe irritation, redness, tearing and blurred vision. Prolonged contact may lead to corneal damage.

SECTION 5 — HEALTH HAZARD DATA continued

Health Hazards (Acute and Chronic):

Acute: Eye irritant. Skin irritant. Narcotic in high concentrations.
Chronic: Unknown.

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

This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Medical Conditions Generally Aggravated By Exposure: Acute and chronic liver and kidney disease, anemia.

First Aid Procedures:

Ingestion: Call physician immediately. Only induce vomiting at instruction of physician. Never give anything by mouth to an unconscious person.
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 open flame.

Incompatibility (materials to avoid): Strong oxidizing agents.

Hazardous Decomposition Products: May produce fumes when heated to decomposition. Fumes may contain carbon monoxide and other toxic fumes.

Hazardous Polymerization: Will not occur.

SECTION 7 — SPECIAL PROTECTION INFORMATION

Respiratory Protection: 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 respirator 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 of most hazardous ingredient below acceptable limit and LEL below stated limit.

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

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

SECTION 7 — SPECIAL PROTECTION INFORMATION continued

Other Protective Equipment: 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) cans. 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: To retard or prevent the release of airborne particulate matter during the use of this product, carefully follow the label directions for use. Storage should be in areas suitable for Level 3 aerosols.

Date revised: 1/9/03

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