



# CYCLO<sup>®</sup> INDUSTRIES, INC

## 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, Inc. 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 & COMPANY IDENTIFICATION

**Product Name:** Cyclo<sup>®</sup> Brake & Parts Clean<sup>®</sup> Non-Chlorinated, Stock No. C-111

**Product Use:** Helps remove brake fluid, oil, grease and other contaminants from brake linings, drums and other brake parts. Can be used without disassembling the brake unit.

**Manufactured by:** Cyclo Industries, Inc.  
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 Classification:** Health = 2\*      Flammability = 3      Physical Hazard = 2  
**NFPA Rating:** Health = 2      Flammability = 3      Reactivity = 0

### SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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

### SECTION 3 - HAZARDS IDENTIFICATION

**Emergency Overview:** Keep away from heat, sparks and flame. This material is an eye and skin irritant. Contents under pressure. Gross inhalation overexposure may cause: respiratory tract irritation, kidney damage, blood, liver damage, lung damage and central nervous system depression. Extremely Flammable. Harmful if absorbed through the skin.

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

#### SECTION 4 – FIRST AID MEASURES

##### First Aid Procedures:

- Ingestion:** DO NOT induce vomiting. Call a physician immediately. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head lower than hips to prevent aspiration.
- Skin Contact:** Immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention. Remove contaminated clothing and shoes and launder before reuse.
- Inhalation:** Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get medical attention.
- Eye Contact:** In case of contact or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

#### SECTION 5 – FIRE FIGHTING MEASURES

**Flash Point:** 0°F (lowest component) (-18°C)

**Method Used:** TAG Closed Cup

**Flammable Limits in Air by Volume:** Lower Explosion Limit (LEL) = 2.5 (lowest component)  
Upper Explosion Limit (UEL) = 12.8 (lowest component)

**Extinguishing Media:** Alcohol foam, carbon dioxide, dry chemical.

**Special Fire Fighting Procedures:** Use water spray to keep containers cool that are exposed to heat or flames. Wear approved positive-pressure self-contained breathing apparatus and protective clothing. Vapor may cause flash fire.

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

**Aerosol Comments:** NFPA Level 2 Aerosol

#### SECTION 6 – ACCIDENTAL RELEASE MEASURES

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

**Spill/Leak Procedures:** Contain any liquid from leaking containers. Avoid all sources of ignition; heat, sparks and open flames. Wear proper protective equipment as specified in the protective equipment section. Remove sources of ignition. Persons not trained should evacuate area. Leaking containers should be removed to an isolated, well-ventilated area and transferred to other suitable containers. Do not puncture or incinerate container. Contents under pressure. Wipe, scrape or soak up in an inert material and put in a container intended for flammable materials for disposal.

SECTION 6 – ACCIDENTAL RELEASE MEASURES continued

**Environmental Precautions:** Do not allow to enter sanitary drains, sewer or surface and subsurface waters. Keep out of lakes, ponds or streams.

#### SECTION 7 - HANDLING AND STORAGE

**Handling & Storage Procedures:** Avoid breathing vapors. If exposed to high vapor concentration, leave area at once. Avoid contact with skin and eyes. Use only in a well ventilated area. Caution: Contents under pressure. Keep away from heat and open flame. Do not puncture, incinerate or store above 120°F. Exposure to high temperatures may cause bursting. DO NOT store in the passenger compartment of an automobile. See product label for additional information. KEEP OUT OF THE REACH OF CHILDREN.

#### SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

**Respiratory Protection:** Use in a well ventilated area. Appropriate respiratory protection shall be worn when applied engineering controls are not adequate to protect against inhalation exposure. Do not breathe mist or vapor.

**Ventilation:** Local exhaust ventilation as necessary to maintain exposures to within applicable limits. Use in a well ventilated area.

**Skin Protection:** Avoid skin contact. Wear protective clothing and gloves.

**Eye Protection:** Chemical goggles; also wear a face shield if splashing hazard exists.

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

#### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

**Boiling Point:** 133°F (56°C)

**Specific Gravity (H<sub>2</sub>O=1):** 0.775

**Vapor Pressure:** Not determined

**Vapor Density (Air=1):** Approximately 2.0

**Solubility in Water:** Partly soluble

**pH:** Not determined

**Appearance and Odor:** Colorless to pale yellow liquid; mild odor.

**Volatile Organic Compound (VOC) (as packaged minus water):** 70.1%

#### SECTION 10 - STABILITY AND REACTIVITY

**Stability:** Stable

**Conditions to Avoid:** Keep away from heat, sparks and flame. Avoid any source of ignition. Do not expose to heat or store at temperatures above 120°F.

#### SECTION 10 - STABILITY AND REACTIVITY continued

**Incompatibility (materials to avoid):** Contact with oxidizing agents, sulfuric acid, nitric acid, chlorine compounds, strong acids, alkalis, potassium t-butoxide, nitrogen tetroxide, beryllium dihydride, magnesium, strong bases.

**Hazardous Decomposition or Byproducts:** Carbon monoxide, carbon dioxide, formaldehyde

**Hazardous Polymerization:** Will not occur.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

**Toxicological Data:**

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

**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:** Consumer Commodity  
**ID Number:** Not regulated  
**Hazard Class:** ORM-D  
**Packing Group:** Not applicable  
**Label:** Not applicable  
**Placards:** Not applicable

**IMDG**

**Shipping Description:** Aerosols, Limited Quantity  
**ID Number:** UN1950  
**Hazard Class:** 2.1  
**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.

**SARA Extremely Hazardous Substances** None

**SARA Section 313** This product contains the following toxic chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372 (SARA 313 – Toxic Chemical Release Reporting)

<u>Chemical Name</u>	<u>CAS#</u>	<u>Weight %</u>
Toluene	108-88-3	30 - 40

**CERCLA/Superfund (RQ):**

<u>Chemical Name</u>	<u>CAS#</u>	<u>RQ</u>
Toluene	108-88-3	1000 lbs.

**California Proposition 65:**

<u>Chemical Name</u>	<u>CAS#</u>	<u>Weight %</u>
Toluene	108-88-3	30 - 40

**SECTION 16 – OTHER INFORMATION**

**Document Date:** 12/21/2007

**Supersedes:** 8/11/2006

**Revisions:** 8/11/06: Section I – Corporate name and address.

12/21/07: Section 14

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