



CYCLO[®] 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[®] Low Odor Brake & Parts Clean, Stock No. C-108

Product Use: Instantly degreases and leaves no residue. Will help remove brake fluid, oil, grease and other contaminants from brake linings, drums and other brake parts. Can be used without disassembling the brake unit. Fast drying formula is great for cleaning mating surfaces before using silicone sealants or adhesives.

Manufactured by: Cyclo Industries, LLC
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Telephone: (561) 775-9600

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

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

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

CAS Reg. No.	Material	Percentage	Exposure Limits
142-82-5	Heptane	75 – 95	500 ppm: 2000 mg/m ³ = OSHA PEL TWA 400 ppm: 1640 mg/m ³ = ACGIH TLV TWA 500 ppm = ACGIH TLW STEL
67-63-0	Isopropyl alcohol	0 – 10	400 ppm = OSHA PEL TWA 400 ppm ACGIH TLV TWA 500 ppm = ACGIH TLW STEL
124-38-9	Carbon dioxide	0 – 10	5000 ppm = OSHA PEL TWA (exposures <10,000 ppm to be cited to minimus) 5000 ppm = 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. Extremely Flammable.

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

SECTION 4 – FIRST AID MEASURES

First Aid Procedures:

- Ingestion:** If swallowed, 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:** If case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention. Remove contaminated clothing and shoes. Launder before reuse.
- Inhalation:** If inhaled, 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: 25°F (-4°C) (lowest component)

Method Used: TAG Closed Cup

Flammable Limits in Air by Volume:

Lower Explosion Level (LEL) = 1.05%

Upper Explosion Level (UEL) = 6.7% (lowest component)

Autoignition Temperature: 399°F (lowest component)

Extinguishing Media: Alcohol foam, carbon dioxide, dry chemical. Use water spray to keep containers cool that are exposed to heat or flames.

Special Fire Fighting Procedures: Wear approved positive-pressure self-contained breathing apparatus and protective clothing. Vapor may cause flash fire.

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

NFPA Rating: Health = 1 Flammability = 3 Reactivity = 0

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: Safety glasses with splash guards or full face shield is recommended.

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

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: 181°F (83°C) (lowest component) **Specific Gravity (H₂O=1):** 0.7 @ 68°F

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

Solubility in Water: Not determined **pH:** Not determined

Evaporation Rate (Butyl Acetate = 1): Not determined

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

Volatile Organic Compound (VOC) (as packaged minus water): 97% (690 g/l)

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable under normal conditions of handling, use and transportation.

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 components, strong acids, alkalis, potassium t-butoxide, nitrogen tetroxide, beryllium dihydride, magnesium.

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

Hazardous Polymerization: Will not occur.

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

Ingredient/CAS #	Wt. %	Route	Species	Dose
Heptane / 142-82-5	75 – 95	Inhalation	Rats	LC50 103 gm/m ³ /4H
Isopropyl alcohol / 67-63-0	0 – 10	Inhalation	Rats	LC50 16,000 ppm

SECTION 12 – ECOLOGICAL INFORMATION

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

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal Method: Residues and spilled material are hazardous waste due to ignitability. 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, Consumer Commodity ORM-D
ID Number: Not applicable
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
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.

SECTION 15 – REGULATORY INFORMATION continued

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>
Isopropyl alcohol	67-63-0	0 - 10

CERCLA/Superfund (RQ): This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

California Proposition 65: This product does not contain chemicals known to the State of California to cause cancer, birth defects and other reproductive harm.

SECTION 16 – OTHER INFORMATION

Document Date: 4/5/04

Supersedes: 3/24/98

Revisions: Sections 2 (removed Hexane), 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 – revised to EU format

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