



# 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 I – PRODUCT & COMPANY IDENTIFICATION

**Product Name:** Cyclo<sup>®</sup> Brake & Parts Clean<sup>®</sup>, Stock No. C-32

**Product Use:** Helps dissolve and flush away brake dust, brake fluid and oil. Degreases instantly and can be used without disassembling brake units or other parts. Excellent for thoroughly cleaning small parts before assembling engines, transmissions, etc. Also great for cleaning mating surfaces before using silicone sealants or adhesives. Non-flammable, chlorinated formula.

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

**NFPA Rating:** Health = 2                      Flammability = 2                      Reactivity = 0

### SECTION 2 – COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

CAS Reg. No.	Material	Percentage	Exposure Limits
127-18-4	Perchloroethylene	85 – 100	100 ppm = OSHA PEL TWA & ACGIH TLW STEL 200 ppm = OSHA PEL Ceiling Limits 25 ppm = ACGIH TLV TWA
106-94-5	n-Propyl bromide	5 – 15	Not listed
124-38-9	Carbon dioxide	0.1 – 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 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. This material or its vapors in contact with flames or hot glowing surfaces may form corrosive acid fumes. See product label for additional information. KEEP OUT OF THE REACH OF CHILDREN.

**SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Respiratory Protection:** Use in 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 exposure to with applicable limits. Use in a well ventilated area.

**Protective Clothing:** 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:** 250°F (121°C)

**Specific Gravity (H<sub>2</sub>O=1):** 1.62 @ 25°C

**Vapor Density (Air=1):** 4.1 Approximate

**Solubility in Water:** <1%

**Vapor Pressure:** Approx. 13 mm Hg @ 20°C

**Evaporation Rate (Butyl Acetate = 1):** 0.15

**Appearance and Odor:** Aerosol product – clear colorless liquid with faint sweet odor

**Volatile Organic Compound (VOC) (as packaged minus water):** 8.8%

**SECTION 10 – STABILITY AND REACTIVITY**

**Stability:** Stable

**Conditions to Avoid:** Do not expose to heat or store at temperatures above 120°F. Avoid contact with open flame, electric arcs or other hot surfaces that could cause thermal decomposition.

**Incompatibility (materials to avoid):** Contact with oxidizing agents, sulfuric acid, nitric acid, chlorine compounds, strong

acids, chloroform, alkalis, potassium, t-butoxide, strong bases.

#### SECTION 10 – STABILITY AND REACTIVITY continued

**Hazardous Decomposition or Byproducts:** Carbon monoxide. The thermal decomposition products of this material are categorized as very toxic by the University of Pittsburgh toxicity of combustion products test method.

**Hazardous Polymerization:** Will not occur.

#### SECTION 11 – TOXICOLOGICAL INFORMATION

##### Toxicological Data:

Ingredient / CAS No.	Wt. %	Route	Species	Dose
Perchloroethylene / 127-18-4	85 – 100	Inhalation	Rats	LC50 34200 mg/m <sup>3</sup> /8H
n-Propyl bromide / 106-94-5	5 – 15	Inhalation	Rats	253 gm/m <sup>3</sup> /30M
Carbon dioxide	0.1 – 15	N/A	N/A	N/A

##### Carcinogenicity:

Ingredient/CAS No.	Wt. %	IARC	NTP	OSHA
Perchloroethylene / 127-18-4	85 – 100	Group 2A (Probable carcinogenic to humans)	Listed – Suspect Carcinogen	Possible Select Carcinogens
n-Propyl bromide / 106-94-5	5 – 15	Not Listed	Assigned to Laboratory for Toxicology/Carcinogenesis Study.	Not Listed
Carbon dioxide	0.1 – 15	Not listed	Not listed	Not listed

#### 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 applicable  
**Hazard Class:** ORM-D  
**Packing Group:** Not applicable  
**Label:** Not applicable  
**Placards:** Not applicable

## SECTION 14 – TRANSPORT INFORMATION continued

## IMDG

**Shipping Description:** Aerosols, Ltd. Qty.  
**ID Number:** UN1950  
**Hazard Class:** 2.3  
**Packing Group:** Not applicable  
**Label:** Not applicable  
**Markings:** Not applicable  
**Placards:** Not applicable  
**Marine Pollutant:** Yes

## 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>Wt. %</u>
Perchloroethylene	127-18-4	85 - 100

**CERCLA/Superfund (RQ):**

<u>Chemical Name</u>	<u>CAS #</u>	<u>RQ</u>
Perchloroethylene	127-18-4	100 lbs.

**California Proposition 65:** This product contains chemicals known to the State of California to cause cancer, birth defects and other reproductive harm.

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt. %</u>
Perchloroethylene	127-18-4	85 - 100

## SECTION 16 – OTHER INFORMATION

**Document Date:** 12/01/07

**Supersedes:** 03/03/2006

**Revisions:** 3/03/06: Section 1-address; Section 2-formula adjustment; Section 9- boiling point, specific gravity, evaporation rate, etc.; Added sections 11, 12 & 15.

12/01/2007: Cyclo Industries became incorporated.

Section 14 – updated to meet latest regulations

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