



CYCLO[®] 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 AND COMPANY IDENTIFICATION

Product Name: Cyclo[®] Engine Clean[®] Degreaser, Stock No. C-30

Product Use: Removes grease and grime from engine. Penetrating solvent 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 = 3 Flammability = 2 Reactivity = 0

SECTION 2 - COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

CAS Reg. No.	Material	Percentage	Exposure Limits
68476-34-6	Petroleum Distillate	65 – 85	None established
68477-31-6	Aromatic Petroleum Distillate	10 – 20	100 ppm = OSHA PEL TWA 5 mg/m ³ = ACGIH TLV TWA
111-76-2	2-butoxyethanol	10 – 20	50 ppm = OSHA PEL TWA 20 ppm = ACGIH TLV TWA
9016-45-9	Nonyphenol Ethoxylated	0.5 – 3	None established
124-38-9	Carbon Dioxide	4 – 8	5000 ppm (exposures <10,000 ppm to be cited de minimus) = OSHA PEL TWA 5000 ppm = ACGIH TLV TWA 30,000 ppm = ACGIH TLV STEL

SECTION 3 - HAZARDS IDENTIFICATION

Emergency Overview: Caution: Combustible. Contents under pressure. May be fatal if swallowed. This material is an eye and skin irritant. Gross inhalation overexposure may cause: respiratory tract irritation, gastrointestinal irritation, headache, dizziness or central nervous system depression.

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. Get medical attention. If vomiting occurs, keep head lower than hips to prevent aspiration.
- Skin Contact:** Wash with soap and water for 15 minutes. If irritation persists or signs of toxicity occur, seek medical attention. Remove contaminated clothing and shoes, and launder before reuse. If product is injected into or under the skin, or into any part of the body, the individual should be evaluated immediately by a physician as a surgical emergency.
- 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:** 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: 145°F (63°C) **Method Used:** TAG Closed Cup

Flammable Limits in Air by Volume: Lower Explosion Limit (LEL) = 0.9% (lowest component)
Upper Explosion Limit (UEL) = 6.7% (lowest component)

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

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

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. Do not puncture or incinerate container. Contents under pressure. Wear proper protective equipment as specified in the protective equipment sections. Remove sources of ignition. Leaking containers should be removed to an isolated, well-ventilated area and transferred to other suitable containers. Wipe, scrape or soak up in an inert material and put in a container intended for flammable materials for disposal.

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: Caution: Contents under pressure. Keep away from heat and open flame. Use only in a well ventilated area. Avoid breathing vapors. If exposed to high vapor concentration, leave area at once. Avoid contact with skin and eyes. 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: Do not breathe mist or vapor. Use in a well-ventilated area. Appropriate respiratory protection shall be worn when applied engineering controls are not adequate to protect against inhalation exposure.

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

Protective Clothing: Avoid skin contact. Wear protective clothing and goggles.

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: 320°F (160°C)

Specific Gravity (H₂O=1): 0.88 @ 60°F (liquid)

Vapor Density (Air=1): Approx. >4.7

Solubility in Water: Approx. 25%

Evaporation Rate (Butyl Acetate = 1): Not determined

pH: Approx. 8

Appearance and Odor: Aerosol product – clear, colorless to slightly discolored solution with aromatic odor

Volatile Organic Compound (VOC) (as packaged minus water): 27%

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.

Incompatibility (materials to avoid): Contact with oxidizing agents. Strong bases. Strong acids.

Hazardous Decomposition or Byproducts: Carbon dioxide, carbon monoxide. Fumes and smoke. Sulfur oxides, Aldehydes and other decomposition products, in the case of incomplete combustion.

Hazardous Polymerization: Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Toxicological Data:

Ingredient / CAS #	Wt. %	Route	Species	Dose
Petroleum Distillate / 38476-34-6	65 – 85	Oral	Rats	LD50 9 ml/kg
2-butoxyethanol / 111-76-2	10 – 20	Inhalation	Rats	LC50 450ppm/4H
Nonyphenol Ethoxylated / 9016-45-9	0.5 – 3	Oral	Rats	LD50 1310 mg/kg

Carcinogenicity: IARC = No; NTP = No; OSHA = No

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

IMDG	Shipping Description:	Aerosols, Ltd. Qty.
	ID Number:	UN1950
	Hazard Class:	2.2
	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.

SARA Extremely Hazardous Substances None

SARA Section 313 This product does not contain any toxic chemical(s) 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)

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: 10/3/08 Supersedes: 12/18/07

Revisions: **9/28/05:** Section 1 – new address; Section 2- Aromatic petroleum Distillate, 2-butoxyethanol, nonyphenol ethoxylated and carbon dioxide replace Solvent Emco 150, Poly alpha-omega-hydroxy, naphthalene, 1,2,4 Trimethylbenzene, cycloparaffinic, isoparaffinic & normal paraffinic hydrocarbons and propane; Section 5 – Flash Point; Section 9 – Boiling point, VOC; Section 10 – Hazardous decomposition products; added Sections 11, 12 and 15.

12/18/07: Cyclo Industries incorporated. IMDG hazard code updated.

8/13/07: Cyclo Industries Incorporated

10/3/08: Formula review

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