

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: Cyclo[®] C-37 Electric Motor Cleaner

Hazardous Material Description: DOT = Aerosols, Consumer Commodity ORM-D
IMDG = Aerosols, Class 2, UN1950, Limited Quantity

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

SECTION 2 — PHYSICAL DATA

Boiling Point: 250°F

Specific Gravity (H₂O=1): Not applicable

Vapor Pressure	<u>mm Hg @ Temp:</u>	
Perchloroethylene	13.0	68°F
Carbon Dioxide	38650.0	60°F

Vapor Density: Heavier than air

Evaporation Rate: Slower than Ether

Solubility in Water: Nil

Appearance and Odor: Aerosol product; colorless liquid; mildly sweet

Volatile Organic Compound (VOC) (as packaged minus water): 0%

SECTION 3 — HAZARDOUS INGREDIENTS

<u>CAS Reg. No.</u>	<u>Material</u>	<u>Percentage</u>	<u>Exposure Limits</u>
127-18-4	* Perchloroethylene	90 - 100%	100 ppm OSHA PEL 25 ppm ACGIH TLV 100 STEL
124-38-9	Carbon Dioxide	1 - 10%	10000 ppm OSHA PEL 5000 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: None

Method Used: T.C.C.

Flammable Limits In Air By Volume:

Lower = Not Determined

Upper = Not Determined

Extinguishing Media: Foam, alcohol foam, CO₂, dry chemical, water fog

Special Fire Fighting Procedures: 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 are preferred. Wear goggles and self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Keep containers from heat and open flame. Closed containers may explode when exposed to extreme heat. Toxic gases and vapors (such as hydrogen chloride, phosgene and carbon monoxide) may be released in a fire. Symptoms may not be readily apparent. Obtain medical attention.

SECTION 5 — HEALTH HAZARD DATA

Effects of Overexposure:

Ingestion: Not a likely route of exposure.

Inhalation: Respiratory irritation, headache, nausea, fatigue, drowsiness, impaired co-ordination, cardiac sensitization.

Skin Contact: May dry the skin. Prolonged contact may cause irritation. Not easily absorbed. Solvent action can dry and defat the skin causing the skin to crack, leading to dermatitis.

Eye Contact: Liquid or vapor can irritate. Prolonged contact may lead to corneal damage.

Health Hazards (Acute and Chronic):

Acute - Eye and skin irritant. Narcotic in high concentrations.

Chronic- Liver and kidney disease. Skin irritation and dermatitis. Chronic overexposure have caused liver and kidney toxic effects in experimental animals. Can cause central nervous system effects, irregular heartbeat and possible death if too much is breathed. Deliberate concentration and inhalation of contents may be harmful or fatal. Can elevate carboxyhemoglobin levels following exposure.

Carcinogenicity: NTP = Yes

IARC Monographs = Yes

OSHA Regulated = No

This product contains a chemical known to the State of California to cause cancer.



SECTION 5 — HEALTH HAZARD DATA — continued

Medical Conditions Generally Aggravated By Exposure:

Acute and chronic liver and kidney disease, anemia, coronary disease or rhythm disorders of the heart.

First Aid Procedures:

Ingestion: If swallowed, do not induce vomiting. Seek immediate medical advise and/or attention. 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. Do not administer adrenaline to an affected person.

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.

Incompatibility (materials to avoid): Unknown

Hazardous Decomposition Products:

May produce fumes when heated to decomposition. Fumes may contain carbon monoxide, chlorine and hydrogen chloride.

Hazardous Polymerization: Will not occur.

SECTION 7 — SPECIAL PROTECTION INFORMATION

Respiratory Protection: In restricted areas, use approved chemical/mechanical filter 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: Safety glasses with splash guards or full face shield.

Other Protective Equipment: Solvent resistant apron.

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. Dike area to contain spill. Clean up area with absorbent material and place in closed containers for disposal.

SECTION 8 — SPILL OR LEAK PROCEDURES continued

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. Avoid contact with hot metal surfaces. Keep away from excessive heat or open flame. Contents under pressure. Do not puncture or incinerate container or store above 120°F.

Other precautions: The storage of non-flammable products with non-flammable or flammable pressurizing agent, in cartons, is the same as for ordinary canned goods in cartons.

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