

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: C-121, Cyclo[®] Battery Protector Common Code #: L-08943
Hazardous Material Description: DOT - Consumer Commodity ORM-D, Freight Class 55
IMDG - Aerosols, Limited Quantity, Class 2, UN1950
HMIS Code: HEALTH = 2 FLAMMABILITY = 4 REACTIVITY = 0

SECTION 2 — PHYSICAL DATA

Boiling Range: -44°F - 310°F Specific Gravity (H₂O=1): 0.72
Vapor Pressure: mm Hg @ Temp Vapor Density: Heavier than air
Mineral Spirits 2.4 68 81 Percent Volatile By Volume (%): 80
Toluene 10 68
Petroleum Distillate 10 68
Propane 6350 68 Solubility in Water: Nil
Butane 1640 68
Evaporation Rate: Slower than ether Appearance and Odor: Aerosol Product
Volatile Organic Compound (VOC) (as packaged minus water): 73

SECTION 3 — HAZARDOUS INGREDIENTS

CAS Reg No.	Material	Percentage	Exposure Limits
8052-41-3	Mineral Spirits; Stoddard Solvent	20 - 30	100 ppm / OSHA PEL 100 ppm / ACGIH TLV
106-97-8	Butane	10 - 20	800 ppm / OSHA PEL 800 ppm / ACGIH TLV
74-98-6	Propane	15	1000 ppm / OSHA PEL Asphyxiant / ACGIH TLV
108-88-3	* Toluene	5 - 15	200 ppm TWA / OSHA PEL 100 ppm / ACGIH TLV 200 ppm / ACC
64742-89-8	Petroleum Distillate, VM&P Naphtha	5 - 15	300 ppm / OSHA PEL 300 ppm / ACGIH TLV

* Indicates toxic chemical subject to the reporting requirements of section 313 of Title *** and of 40 CFR 372.

SECTION 4 — FIRE AND EXPLOSION HAZARD DATA

Flash Point: -156°F

Method Used: Estimated

Flammable Limits In Air By Volume: Lower = .7

Upper = 9.5

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

Special Fire Fighting Procedures:

Water spray may be ineffective. 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 preferred. Wear goggles and self-contained breathing apparatus.

Unusual Fire and Explosion Hazards:

Closed containers may explode from internal pressure build-up when exposed to extreme heat and discharge contents. Vapor accumulation can flash or explode if ignited. Overexposure to decomposition products may cause a health hazard. 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 coordination.

Skin Contact: Contact may dry the skin. Prolonged contact may cause moderate 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 cause moderate to severe irritation.

SECTION 5 — HEALTH HAZARD DATA continued

Health Hazards:

Acute: Eye irritant. Possible skin irritant.

Chronic: None known.

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

Medical Conditions Generally Aggravated By Exposure: None known.

First Aid Procedures:

Ingestion: If swallowed, DO NOT induce vomiting. Seek immediate medical advice and/or attention.

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.

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. Storage above 120°F. Exposure to open flame.

Incompatibility (materials to avoid): Strong oxidizing agents

Hazardous Decomposition Products:

May produce fumes when heated to decomposition. Fumes may contain carbon monoxide.

Hazardous Polymerization: Will not occur

SECTION 7 — SPECIAL PROTECTION INFORMATION

Respiratory Protection:

None under normal use. Avoid breathing vapors. In restricted areas, use approved chemical/mechanical filters 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: None under normal use. Solvent resistant required for prolonged or repeated contact.

Eye Protection: None under normal use, however, use of safety glasses with splash guards or full face shield is recommended.

SECTION 7 — SPECIAL PROTECTION INFORMATION continued

Other Protective Equipment: None under normal use, however, use of solvent resistant aprons or other clothing is recommended.

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. Remove all sources of ignition. Clean up area with absorbent material and place in closed containers for disposal.

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. Do not store above 120°F. Do not puncture or incinerate (burn) cans. Do not stick pin, nail or any other sharp object into opening on top of can. Do not spray in eyes. Do not take internally. See product label for additional information.

Other precautions: Small pressurized containers of flammable products may be stored in areas suitable for ordinary combustibles with respect to construction, drainage, control of ignition sources and ventilation except that they should not be stored in basements.

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