

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-113 and C-119 Cyclo[®] Brake & Parts Clean[®] Non-Chlorinated

Common Code #: L-08439

Hazardous Material Description:

DOT & IMDG = Flammable Liquid N.O.S. (Heptane & Toluene), Class 3, UN1993, II

HMIS Code: Health = 2 Flammability = 3 Reactivity = 0

SECTION 2 — PHYSICAL DATA

Boiling Range: 133°F - 231°F

Specific Gravity (H₂O = 1): 0.75

Vapor Pressure:	<u>mm Hg @ Temp.</u>
Heptane	40 72
Toluene	10 81
Acetone	181 68

Vapor Density: Heavier than air

Solubility in Water: Slight to moderate

Evaporation Rate: Slower than ether

Percent Volatile By Volume (%): 100

Appearance and Odor: Colorless liquid; typical solvent odor

Volatile Organic Compound (VOC) (as packaged minus water): 79%

SECTION 3 — HAZARDOUS INGREDIENTS

CAS Reg. No.	Material	Percentage	Exposure Levels
142-82-5	Heptane	50 – 60	400 ppm / OSHA PEL 400 ppm / ACGIH TLV
108-88-3	* Toluene	20 – 30	200 ppm TWA / OSHA PEL 100 ppm / ACGIH TLV 200 ppm / ACC
67-64-1	Acetone	20 – 30	750 ppm / OSHA PEL 750 ppm / ACHIG TLV

* Indicates toxic chemical 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: 1°F

Method Used: T.C.C.

Flammable Limits in Air by Volume: Lower = 1.2

Upper = 13

Extinguishing Media: Foam, alcohol 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: Keep containers tightly closed. Isolate from heat, sparks, electrical equipment and open flame. Closed containers may explode when exposed to extreme heat. 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: Can cause gastro-intestinal irritation, vomiting, diarrhea and death. If swallowed, call a physician immediately. Only induce vomiting at the direction of a physician.

Inhalation: Respiratory irritation, headache, nausea, fatigue, drowsiness, impaired coordination.

Skin Contact: Contact may dry the skin; prolonged contact may cause irritation. May be absorbed. Solvent action can dry and defat the skin causing the skin to crack, leading to dermatitis.

Eye Contact: Liquid or vapor can irritate.

Health Hazards (Acute and Chronic):

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

Chronic = Liver and kidney disease. Skin irritation and dermatitis.

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

Medical Conditions Generally Aggravated by Exposure:

Acute and chronic liver and kidney disease, anemia.

SECTION 5 — HEALTH HAZARD DATA continued

First Aid Procedures:

- Ingestion: Call physician immediately. Only induce vomiting at instruction of physician. 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.
- 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 and other toxic fumes.

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 is recommended.

Other Protective Equipment: 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. Dike area to contain spill. 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.

CERCLA (Superfund) Reportable Quantity (in lb.): 4,289 (based on Toluene content).

SECTION 9 — SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling and Storage: Store and use in cool, dry, well-ventilated areas. Keep containers closed when not in use. Keep away from excessive heat or open flame. Vapors may ignite explosively. Vapors may spread long distances. Prevent build-up of vapors. Extinguish all pilot lights and turn off heaters, non-explosion proof electrical equipment and ignition sources during use.

Other precautions: Keep closure tight and container upright to prevent leaks. Open container slowly. Ground containers when filling or emptying. Do not get in eyes. Avoid skin contact and contact with clothing. Do not weld or flame-cut an empty drum. Do not take internally. Do not transfer contents to unlabelled containers.

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