

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-260 & C-261 Cyclo[®] 6XT[™] Diesel Treatment

Hazardous Material Description:

DOT = Consumer Commodity ORM-D

IMDG = Flammable Liquid, N.O.S., (Contains Diesel Fuel), Class 3, UN1993, III, Limited Quantity

HMIS Codes: Health = 2 Flammability = 2 Reactivity = 0

NFPA Codes: Health = 2 Flammability = 2 Reactivity = 0

SECTION 2 — PHYSICAL DATA

Boiling Point: 300°F (149°C)

Specific Gravity: 0.90 @ 60°F, typical

Vapor Pressure (mm Hg): 3 @ 100°F

Solubility in Water: Negligible

Appearance and Odor: Amber, clear liquid with amine, aromatic odor.

SECTION 3 — HAZARDOUS INGREDIENTS

CAS Reg. No.	Material	Percentage	Exposure Limits
64742-94-5	Petroleum Distillates	80 – 95	100 ppm = ACGIH TLV
Not available	Oxygenated hydrocarbons	1 – 10	Not Established
108-05-4	Vinyl Acetate	1 – 5	10 ppm (30 mg/m ³) = OSHA TWA 20 ppm (60 mg/m ³) = OSHA STEL 10 ppm (30mg/m ³) = ACGIH TWA 15 ppm (60 mg/m ³) = ACGIH STEL
91-20-3	Naphthalene	1 – 5	10 ppm (50 mg/m ³) = OSHA TWA 15 ppm (75 mg/m ³) = OSHA STEL 10 ppm (50 mg/m ³) = ACGIH TWA 15 ppm (75 mg/m ³) = ACGIH STEL
111-76-2	2-butoxyethanol	1 - 3	25 ppm = TWA (skin)

*** No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present ***

SECTION 4 — FIRE AND EXPLOSION HAZARD DATA

Flash Point: 141°F (60.5°C) Method Used: PM

Flammable Limits: Lower Explosive Limit = 0.6 Upper Explosive Limit = 7.0

Autoignition Temperature: 842°F (450°C)

Extinguishing Media: Foam, dry chemical or water spray.

Special Fire Fighting Procedures: Use water spray to cool fire exposed surfaces and to protect personnel. Isolate “fuel” supply from fire. Respiratory and eye protection required for fire fighting personnel. Avoid spraying water directly into storage containers due to danger of boilover. This liquid is volatile and gives off invisible vapors. Either the liquid or vapor may settle in low areas or travel some distance along the ground or surface to ignition sources where they may ignite or explode.

Unusual Fire and Explosion Hazards: Combustible fluids can form combustible mixtures at temperatures at or above the flashpoint. Toxic gases will form upon combustion “Empty” containers retain product residue (liquid and/or vapor) and can be dangerous.

SECTION 5 — HEALTH HAZARD DATA

Effects of Overexposure:

Ingestion: Minimal toxicity. Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury, possibly progressing to death.

Inhalation: Negligible hazard at ambient temperature (-18° to 38°C). High vapor/aerosol concentrations (greater than approximately 1000 ppm) are irritating to the eyes and the respiratory tract, may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness and other central nervous system effects, including death. Avoid breathing vapor or mists.

SECTION 5 — HEALTH HAZARD DATA continued

Skin Contact: Low order of toxicity. Frequent or prolonged contact may irritate and cause dermatitis. Skin contact may aggravate an existing dermatitis condition.

Eye Contact: Irritating and will injure eye tissue if not removed promptly.

Chronic Effects: This product contains vinyl acetate monomer. No carcinogenic effects were observed in long-term drinking water studies in rats. Long-term inhalation of this chemical at air concentrations of 600 ppm produced nasal tumors in rats. Mice exposed under the same conditions were not affected.

The International Agency for Research on Cancer (IARC) evaluated vinyl acetate in 1995 and found it to be a possible human carcinogen, Classification 2B. The American Conference of Governmental Industrial Hygienists (ACGIH) has evaluated vinyl acetate and found it to be a group A3, animal carcinogen. The ACGIH also reported that available evidence suggests that the agent is not likely to cause cancer in humans at the recommended exposure levels.

First Aid Procedures:

Ingestion: DO NOT induce vomiting. If individual is conscious, give milk or water to dilute stomach contents. Keep warm and quiet. Get prompt medical attention. DO NOT attempt to give anything by mouth to an unconscious person.

Skin Contact: Immediately flush with large amounts of water; use soap if available. Remove contaminated clothing, including shoes, after flushing has begun. If irritation persists, seek medical attention.

Inhalation: Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention.

Eye Contact: Immediately flush eyes with large amounts of water for at least 15 minutes. Get prompt medical attention.

SECTION 6 — REACTIVITY DATA

Stability: Unstable at temperatures greater than 212°F (100°C).

Incompatibility (materials to avoid): Strong oxidizing agents.

Hazardous Decomposition Products: Fumes, smoke, oxides of nitrogen and carbon monoxide.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Temperatures above 212°F (100°C).

SECTION 7 — SPECIAL PROTECTION INFORMATION

Respiratory Protection: Where overexposure by inhalation may occur and engineering, work practice or other means of exposure reduction are not adequate, approved respirators may be necessary.

Ventilation: Should be provided to control worker exposures and prevent health risk.

SECTION 7 — SPECIAL PROTECTION INFORMATION continued

Protective Gloves: Where contact is likely, wear long sleeves and chemical resistant gloves.

Eye Protection: Wear safety glasses with side shields.

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:

Land Spill – Eliminate sources of ignition. Prevent additional discharge of material, if possible to do so without hazard. For small spills, implement cleanup procedure; for large spills implement cleanup procedures and, if in public area, keep public away and advise authorities including the National Response Center. Prevent liquid from entering sewers, watercourses or low areas. Contain spilled liquid with sand or earth. Do not use combustible materials such as sawdust. Recover by pumping (use an explosion proof or hand pump) or with a suitable absorbent. If liquid is too viscous for pumping, scrape up.

Water Spill – Eliminate sources of ignition. Warn occupants and shipping in surrounding and downwind areas of fire and explosion hazard and request all to stay clear. Remove from surface by skimming or with suitable absorbents. If allowed by local authorities and environmental agencies, sinking and/or suitable dispersants may be used in non-confined waters.

Waste Disposal Method: Consult an expert on disposal or recovered material and ensure conformity to local, state and federal disposal regulations.

SECTION 9 — SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling and Storage: Use proper grounding procedures. Keep container closed. Handle and open containers with care. Store in a cool, well-ventilated place away from incompatible materials. DO NOT handle or store near an open flame, heat or other ignition sources. Protect material from direct sunlight.

Other precautions: See other sections of this MSDS

Date revised: 8/30/02

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