



CYCLO[®] INDUSTRIES, INC.

MATERIAL SAFETY DATA SHEET

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First Aid Emergency: (800) 752-7869 or (312) 906-6194
Shipping Emergency: (800) 424-9300 or (703) 527-3887 (CHEMTREC)

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 IDENTIFICATION

Product Name: C-47 Cyclo[®] Octane Boost

Hazardous Material Description: DOT – Not regulated
IMDG – Non-hazardous Petroleum Oil

HMIS Code: HEALTH = 3 FLAMMABILITY = 2 REACTIVITY = 0

SECTION 2 - PHYSICAL DATA

Specific Gravity (H₂O=1): 0.81 @ 60°F, typical

Solubility in Water: Negligible

Appearance and Odor: Clear, orange liquid with amine odor.

SECTION 3 - HAZARDOUS INGREDIENTS

CAS Reg. No.	Material	Percentage	Exposure Limits
8008-20-6	Kerosene	85 – 95	500 ppm = OSHA/PEL
1330-20-7	* Xylene	<1	100 ppm = OSHA 100 ppm = ACGIH 150 ppm = STEL

- 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: 143°F - 185°F (62°C - 85°C)

Extinguishing Media: Dry chemical, foam, carbon dioxide.

Special Fire Fighting Procedures: Use water spray to cool fire exposed containers, equipment and to protect personnel. DO NOT spray water directly on fire – the product will float and could be re-ignited on surface of water. 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 boil over. 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: Carbon oxides, and various hydrocarbons formed when burned. Highly flammable vapors which are heavier than air may accumulate in low areas and/or spread along ground away from handling site. Flash back along vapor trail is possible.

SECTION 5 - HEALTH HAZARD DATA

Effects of Overexposure:

- Ingestion: May be irritating to intestines. If swallowed, may be aspirated resulting in inflammation and possible fluid accumulation in the lungs.
- Inhalation: May cause headache, nausea and sedation.
- Skin Contact: Can be absorbed through the skin in toxic amounts. Repeated skin contact may cause severe skin irritation.
- Eye Contact: Vapors may cause slight irritation. Liquid may cause intense stinging without long term effects.

Health Hazards (Acute and Chronic):

Overexposure by inhalation to the product components may cause nonspecific discomfort such as nausea, headache or weakness; visual disturbances including blindness; irritation of the upper respiratory passages; acidosis; temporary nervous system depression with anesthetic effects such as dizziness, headache, confusion, incoordination and stress; anemia and other blood changes; respiratory effects; possible liver and kidney damage; or fatality from gross overexposure.

Liver and kidney changes have been noted in long term studies in animals exposed to xylenes. Fetotoxicity has been observed in animals with sub chronic exposure to mixed xylenes at concentrations approximately five times the possible exposure limit.

First Aid Procedures:

- Ingestion: DO NOT INDUCE VOMITING. If individual is conscious, give milk or water to dilute stomach contents. Keep and quiet and get immediate medical attention. Never give anything by mouth to an unconscious person.
- Inhalation: Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration followed by oxygen if breathing is stopped. Keep at rest. Get immediate medical attention.
- Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Follow up with soap and water wash as soon as possible. Wash clothing before use. If irritation persists, seek medical attention.
- Eye Contact: Flush eyes immediately with plenty of water for at least 15 minutes. Obtain immediate medical attention.

NOTE TO PHYSICIAN: Activated charcoal mixture may be administered. To prepare activated charcoal mixture, suspend 50 grams activated charcoal in 400 mL water and mix thoroughly. Administer 5mL/kg, or 350 mL for an average adult.

Because of the danger of aspiration, emesis or gastric lavage should not be employed unless the risk is justified by the presence of additional toxic substances. Activated charcoal may induce vomiting, but may be given after emesis or lavage to absorb toxic additives. Steroid therapy in mild to moderate cases does not improve outcome. Bacterial pneumonia often occurs after exposure, but prophylactic antibiotics are not indicated and should be reserved for documented bacterial pneumonia.

SECTION 6 - REACTIVITY DATA

Stability: Stable.

Incompatibility (materials to avoid): Oxygen and strong oxidizing agents.

Hazardous Decomposition Products: Carbon oxides and various hydrocarbons/

Hazardous Polymerization: None.

SECTION 7 - SPECIAL PROTECTION INFORMATION

Respiratory Protection: Where overexposure by inhalation may occur, use appropriate NIOSH/MSHA approved air purifying respirator. If conditions immediately dangerous to life or health (IDLH) exist, use NIOSH/MSHA approved self-contained breathing apparatus (SCBA) equipment

Ventilation: Adequate to control worker exposures and prevent health risk.

Protective Gloves: For open systems where contact is likely, wear chemical resistant gloves

Eye Protection: For primary protection use chemical goggles or safety glasses with side shields. For severe exposure, add face shield.

Other Protective Equipment: If skin contact or contamination is likely, chemical resistant protective clothing should be worn.

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 if 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. Also, if this product is subject to CERCLA reporting (see Section 10 Regulatory Information) notify 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. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations. **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. Consult and expert on disposal of recovered material.

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: Toxic gases will form upon combustion. Store in a cool, well ventilated area away from incompatible materials. DO NOT handle or store near an open flame, heat or other ignition sources. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT WELD, BRAZE, SOLDER, DRIL, GRIND OR EXPOSURE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not reuse empty containers with commercial cleaning or reconditioning.

Bond and ground during transfer. Keep container closed. Handle and open containers with care.

Do not get in eyes, on skin or on clothing. Do not breathe vapors, mist fume or dust. Do not swallow, may be aspirated into lungs. Wear protective equipment and/or garments described in Section 7 if exposure conditions warrant. Wash thoroughly after handling. Immediately remove and launder contaminated clothing before reuse. Use only with adequate ventilation.

Other precautions: KEEP AWAY FROM CHILDREN.

SECTION 10 - REGULATORY INFORMATION

TSCA: Components of this product are listed on the TSCA Inventory.

Discharge or spills which produce a visible sheen on either surface water or in waterways/sewers which lead to surface water must be reported to the National Response Center at (800) 424-8802.

This information may be subject to the provisions of the Community Right-to-Know Reporting Requirements (40CFR370) of threshold quantity criteria are met.

Reportable Quantities:

Xylene = 100 lbs.

Document Date: 12/18/2007

Supersedes: 5/16/00

Revisions: Cyclo Industries incorporated. Address changed.

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