

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-3005 Cyclo[®] ISP Intake System Purge

Hazardous Material Description: DOT: Consumer Commodity ORM-D
IMDG: Dangerous Goods in Limited Quantities of Class 3.2

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

SECTION 2 — PHYSICAL DATA

Specific Gravity: 0.86 @ 60°F, typical

Solubility in Water: Negligible

Appearance and Odor: Amber, clear liquid with aromatic odor

SECTION 3 — INGREDIENTS

<u>CAS Reg. No.</u>	<u>Material</u>	<u>Percentage</u>	<u>Exposure Limits</u>
64742-94-5	Petroleum distillate	0 – 10	100 ppm
111-76-2	Butyl cellusolve	0 – 10	25 ppm (skin) = TWA (OSHA & ACGIH)
1330-20-7	Xylene	80 – 100	100 ppm = TWA8 (OSHA & ACGIH) 150 ppm STEL/Ceiling (OSHA & ACGIH)

SECTION 4 — FIRE AND EXPLOSION HAZARD DATA

Flash Point: 85°F (29.4°C)

Method Used: PMCC

Flammable Limits In Air % By Volume at:

Lower Explosion Limit (LEL): 1.0

Upper Explosion Limit (UEL): 4.0

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: Flammable 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. **DO NOT PRESSURIZE, CUT WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.**

SECTION 5 — HEALTH HAZARD DATA

Symptoms of Exposure: Headache, drowsiness, dizziness, vomiting, diarrhea, eye, respiratory or skin irritation, nausea, numbness.

Acute Exposure Effects: Central nervous system depression, peripheral nervous system depression, narcosis, asphyxiation, gastrointestinal disturbances, cardiac stimulation and arrhythmia (irregular heartbeat) and eye and skin irritation.

Chronic Exposure Effects: Dermatitis, pneumonitis, pulmonary edema and kidney damage. This product contains Xylene. Literature data indicates that Xylene causes central nervous system effects, anemia, liver and kidney effects and eye damage after repeated or prolonged oral, dermal or inhalation exposure.

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

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.

SECTION 5 — HEALTH HAZARD DATA continued

Eye Contact: Immediately flush eyes with large amounts of water for at least 15 minutes. Get prompt medical attention, preferably from an ophthalmologist. DO NOT remove contact lenses, if worn.

SECTION 6 — REACTIVITY DATA

Stability: Stable

Incompatibility (materials to avoid): Strong oxidizing and reducing agents, acids, bases and strong alkalies.

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

Hazardous Polymerization: Will not occur.

SECTION 7 — SPECIAL PROTECTION INFORMATION

Respiratory Protection: Full facepiece, NIOSH approved organic vapor respirator.

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

Local Exhaust Ventilation: At source of vapor.

Mechanical Ventilation: Recommended.

Personal Protection: For open systems where contact is likely, wear long sleeves, chemical resistant gloves and chemical goggles. Where contact may occur, wear long sleeves and safety glasses with side shields.

Work/Hygenic 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 and 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. 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 an expert on disposal of recovered material and ensure conformity to local disposal regulations.

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: 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. DO NOT pressurize, cut, heat or weld containers. Empty product containers may contain product residue. DO NOT reuse empty containers without commercial cleaning or reconditioning.

Process Hazard: Sudden release of not organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into vacuum equipment, may result in ignitions without the presence of obvious ignition sources.

SECTION 10 — REGULATORY INFORMATION

Hazard Categories for SARA 311/312 Reporting are Indicated Below:

HEALTH	Immediate (Acute)	Yes
HEALTH	Delayed (Chronic)	Yes
PHYSICAL	Fire	Yes
PHYSICAL	Sudden Release of Pressure	No
PHYSICAL	Reactive	No
	Nuisance Mist/Dust Only	No

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

Discharge of 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 (40 CFR 370) if threshold quantity criteria are met. This product does not contain Section 313 Reportable Ingredients.

Date entered: 4/28/00

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