

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-3000 Cyclo[®] ISPT[™] Intake System Purge

Common Code #: 1617C

Hazardous Material Description:

DOT: Cleaning compound, N.O.I., Consumer Commodity ORM-D

IMDG: Dangerous Goods in Limited Quantities of Class 3.2 (Xylene, Isopropanol, Diacetone Alcohol), II

HMIS Code: Health = 1

Flammability = 3

Reactivity = 0

Personal Protection Index = B

SECTION 2 - PHYSICAL DATA

Boiling Point: 160°F (71.1°C)

Specific Gravity (H₂O=1): 0.860

Vapor Pressure (mm Hg): Not applicable

Vapor Density (AIR=1): >1.0

Percent Volatile By Volume (%): 100.0

Solubility in Water: Partial

Evaporation Rate (Butyl Acetate = 1):

pH: Not applicable

Appearance and Odor: Water white liquid, solvent odor

Volatile Organic Compound (VOC) (as packaged minus water): 100%

SECTION 3 - HAZARDOUS INGREDIENTS

<u>CAS Reg. No.</u>	<u>Material</u>	<u>Percentage</u>	<u>Exposure Limits</u>
1330-20-7	Xylene	50 – 70	100 ppm - PEL 435 mg/m ³ - PEL
67-63-0	Isopropanol	20 – 40	400 ppm - PEL 980 mg/m ³ – PEL
123-42-2	Diacetone Alcohol	5 – 15	50 ppm – PEL 435 mg/m ³ - PEL

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point: 54°F (12.2°C) Method Used: T.O.C.

Flammable Limits: Lower Explosive Limit (LEL) = 1.0 Upper Explosive Limit (UEL) = 7.0

Extinguishing Media:

Use halon replacement or carbon dioxide extinguishers or alcohol foam for small fires. Water spray or fog can cool fire, but may not be effective in extinguishing fire. Large fires should be extinguished with alcohol foam. Use water spray to cool containers exposed to fire. Containers may explode in heat or fire.

Special Fire Fighting Procedures:

Wear NIOSH approved SCBA respirator in the positive pressure mode and chemical protective clothing.

Unusual Fire and Explosion Hazards:

Dangerous fire and explosion hazard when exposed to heat or flame. Isopropanol is extremely flammable and forms explosive mixtures with air. Isopropanol vapors may travel considerable distance to a source of ignition and flash back.

SECTION 5 - HEALTH HAZARD DATA**Effects of Overexposure:**

Ingestion: Low to moderate degree of toxicity by ingestion. Harmful or fatal if swallowed. May cause mouth and throat irritation. May cause gastrointestinal irritation, nausea, vomiting and diarrhea. May produce central nervous system depression and cause liver damage. Liquid ingestion may result in vomiting, aspiration (breathing of liquid into lungs) must be avoided; may result in pneumonitis ad pulmonary edema/hemorrhage. In severe cases, death may occur.

Inhalation: Narcotic chemical affecting central nervous system resulting in dizziness, nausea, visual impairment, narcosis and muscular impairment.

Skin Contact: Prolonged or repeated skin contact may cause dermatitis, scaling and possible systemic effects.

Eye Contact: Irritant

First Aid Procedures:

Ingestion: DO NOT INDUCE VOMITING. Get medical attention immediately.

SECTION 5 - HEALTH HAZARD DATA continued

Skin Contact: Promptly wash contaminated skin with soap and water for at least 15 minutes. If this product penetrates the clothing, promptly remove the clothing and wash the skin with soap and water. Systemic effects may be delayed 18 to 72 hours, therefore, keep individual under observation.

Inhalation: Move the exposed person to fresh air at once and call emergency medical care. If breathing has stopped, give artificial respiration. If breathing is difficult, give humidified oxygen. **Eye Contact:** Immediately wash the eyes with large quantities of room temperature water for at least 15 minutes, occasionally lifting the lower and upper lids. Get medical attention immediately. A follow up visit to an ophthalmologist should be made. Contact lenses should not be worn when working with this chemical.

SECTION 6 - REACTIVITY DATA

Stability: Stable

Conditions to Avoid:

Store in a well ventilated place away from sources of ignition, combustibles, oxidizing materials and acid.

Incompatibility (materials to avoid):

Strong oxidizing agents, amines, chlorinated compounds and caustic materials.

Hazardous Decomposition Products:

Excessive heating and/or incomplete combustion will produce carbon monoxide.

Hazardous Polymerization: Will not occur

SECTION 7 - SPECIAL PROTECTION INFORMATION

Respiratory Protection: Do not use air purifying respirator. Use appropriate NIOSH approved supplied or self contained respirator. Respirators must be selected based on the airborne levels found in the workplace and must not exceed the working limits of the respirator.

Ventilation:

Local Exhaust: Provide local ventilation to maintain exposure levels below recommended exposure limits.

Special: Not applicable

Mechanical (General): In confined spaces, mechanical ventilation may be required.

Other Ventilation: Not applicable

Protective Gloves: Use natural rubber or neoprene gloves as required.

Eye Protection:

Use splash proof chemical, safety goggles or appropriate full-face respirator. Contact lenses should not be worn when working with this chemical.

SECTION 7 - SPECIAL PROTECTION INFORMATION continued

Other Protective Equipment:

If there is a possibility of exposure of an individual's body to the product, wear body-covering work clothes to avoid prolonged or repeated exposure.

Work/Hygienic Practices: Use normal hygiene practices.

SECTION 8 - SPILL OR LEAK PROCEDURES

Steps To Be Taken In Case Material Is Released or Spilled:

SMALL SPILL: Remove sources of heat or ignition, provide adequate ventilation, contain leak using absorbent, inert, non-combustible material.

LARGE SPILL: Contain spill, transfer to secure containers. In the event of an uncontrolled material release, the user should determine if release is reportable under applicable laws and regulations.

Waste Disposal Method:

Dispose of product in accordance with local, state and federal regulations. Before attempting clean up, refer to other sections of MSDS for hazard warning information.

SECTION 9 - SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling and Storage:

Product is flammable. Keep away from sources of ignition, combustibles, oxidizing materials and acid. Store in an area equipped with automatic sprinklers or fire extinguishing system. Empty containers contain product residues, assume emptied containers to have same hazards as full containers.

Other precautions: See other sections of MSDS.

SECTION 10 - REGULATORY INFORMATION

SARA TITLE III:

Section 302: Xylene, 1330-20-7, RQ – 1000 lbs.

Section 311: Hazard categories – Fire Hazard = Yes; Acute = Yes and Chronic = Yes

Section 313: Xylene, 1330-20-7, 60 – 70%

CERCLA:

Section 311(b) (4): Requires discharges of crude oil and petroleum products in any kind or form to waters must immediately be reported to the National Response Center at (800) 424-8802.

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