

# CYCLO<sup>®</sup> 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-96 Cyclo<sup>®</sup> Fuel Injector Cleaning System Common Code #: 2420

Hazardous Material Description: DOT: Consumer Commodity ORM-D  
IMDG: Aerosols, 2, UN1950, Ltd. Qty.

HMIS Code: HEALTH = 2 FLAMMABILITY = 4 REACTIVITY = 0

### SECTION 2 — PHYSICAL DATA

Boiling Range: 232°F - 279°F (111°C - 137°C) Specific Gravity (H<sub>2</sub>O=1): 0.872

Vapor Pressure (mm Hg): 5.1 - 20 Vapor Density: <1

Solubility in Water: Not soluble. Percent Volatile By Volume (%): 100

Appearance and Odor: Pressurized product, colorless liquid, organic solvent odor.

### SECTION 3 — HAZARDOUS INGREDIENTS

CAS Reg. No.	Material	Percentage	Exposure Limits
108-88-3	Toluene	5 - 15	100 ppm = OSHA TWA 377 mg/m <sup>3</sup> = OSHA TWA 100 ppm = ACGIH TLV 377 mg/m <sup>3</sup> = ACGIH TLV
1330-20-7	Xylene	75 - 85	100 ppm = OSHA TWA 434 mg/m <sup>3</sup> = OSHA TWA 100 ppm = ACGIH TLV 434 mg/m <sup>3</sup> = ACGIH TLV

**SECTION 4 — FIRE AND EXPLOSION HAZARD DATA**

Flash Point: <80°F (<27°C) Method Used: Closed Cup

Extinguishing Media: Foam, CO<sub>2</sub>, dry chemical.

Special Fire Fighting Procedures: Water spray may be used to cool containers to prevent pressure build-up and explosion when exposed to extreme heat. Self-contained breathing apparatus with full face piece operated in pressure demand or positive pressure mode.

Unusual Fire and Explosion Hazards: Closed containers may explode from internal pressure build-up when exposed to extreme heat and discharge contents. Vapor accumulation can flash or explode if ignited. Vapors are heavier than air and can collect in low areas.

**SECTION 5 — HEALTH HAZARD DATA**

## Acute Health Effects:

Ingestion: May cause discomfort, nausea and vomiting  
 Inhalation: Respiratory irritation and dizziness.  
 Skin Contact: Prolonged or repeated contact may cause irritation. Solvent action can dry and defat the skin causing the skin to crack, leading to dermatitis.  
 Eye Contact: Will cause irritation upon contact.

Chronic Health Effects: Overexposure to the ingredients in this product may cause liver abnormalities and kidney damage.

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

Medical Conditions Generally Aggravated By Exposure: Pre-existing eye or skin conditions may be aggravated by overexposure to this product.

Target Organs: Central nervous system, liver, lungs, kidneys.

## First Aid Procedures:

Ingestion: If swallowed, DO NOT induce vomiting. Seek immediate medical advice and/or attention. Give conscious victim glass of water. Never give water to unconscious victim.  
 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. Storage above 120°F. Exposure to open flame.

Incompatibility (materials to avoid): Strong oxidizing agents.

**SECTION 6 — REACTIVITY DATA continued**

Hazardous Decomposition Products: May produce fumes when heated to decomposition. Fumes may contain carbon monoxide, carbon dioxide and various hydrocarbons.

Hazardous Polymerization: Will not occur.

**SECTION 7 — SPECIAL PROTECTION INFORMATION**

Respiratory Protection: Organic vapor air purifying respirator if vapors are a nuisance or if concentrations are above PEL or TLV.

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: Chemical resistant gloves such as nitrile or neoprene.

Eye Protection: Chemical splash goggles with indirect or no ventilation.

Work / Hygienic Practices: Eye washes and safety showers in the workplace are recommended.

Comment: Never eat, drink or smoke in work areas.

**SECTION 8 — SPILL OR LEAK PROCEDURES**

Steps To Be Taken In Case Material Is Released or Spilled: Notify safety personnel, evacuate all unnecessary personnel and provide adequate ventilation. If feasible without risk, clean-up personnel should stop leak. All clean-up personnel should wear proper personal protective equipment. SMALL SPILL - Clean with inert absorbent and place in recovery drums for disposal. LARGE SPILL – Dike to prevent further migration of material. Do not release into waterways or sewers. Follow applicable OSHA regulation 20 CFR 1910.120.

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.

Disposal Considerations: As a waste, this product does meet the criteria of a hazardous waste as defined by RCRA (40 CFR 361). As a waste, this product can be fuel blended at a fuel blending facility.

EPA Waste Code: D001

**SECTION 9 — SPECIAL PRECAUTIONS**

Precautions To Not be Taken In Handling and Storage: Store and use in cool, dry, well-ventilated areas. Store in areas designated for the storage of Level 2 aerosols. Do not store above 120°F. Do not puncture or incinerate (burn) cans. Do not stick pin, nail or any other sharp object into opening on top of can. Do not spray in eyes. Do not take internally. See product label for additional information.

**SECTION 9 — SPECIAL PRECAUTIONS**

Other precautions: Wash thoroughly after handling. Do not get into eyes, on skin, or on clothing. Do not smoke while using this product. Do not use near excessive heat, sparks or open flame.

**SECTION 10 — REGULATORY INFORMATION**

OSHA: Considered hazardous as defined by 29 CFR 1910.1200.

EPA SARA Title III

Section 311-312 (40 CFR 370): If stored in excess of the threshold quantities, this product should be reported as a(n): Immediate (acute) health hazard  
Delayed (chronic) health hazard  
Sudden Release hazard  
Fire Hazard

Section 313 (40 CFR 372): This product contains the following ingredient(s) which are subject to the reporting requirements of SARA 313:  
Xylene

New Jersey Right To Know: This product contains the following ingredients which are non-hazardous but are among the top five ingredients in this product.

<u>Chemical</u>	<u>CAS #</u>
Proprietary ingredient	NJTSRN 80100161-5000P
1, 2, 4 Trimethyl Benzene	95-63-6

Date revised: 3/30/00

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