

CYCLO[®] INDUSTRIES, LLC

MATERIAL SAFETY DATA SHEET

10190 Riverside Drive, Palm Beach Gardens, Florida 33410-4881
Phone: (561) 775-9600

First Aid Emergency: (800) 752-7869 Ext. 10 or (312) 906-6194 Ext. 10
Shipping Emergency: (800) 424-9300 or (703) 527-3887

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-21 Cyclo[®] Diesel Fuel Injector Cleaner

Hazardous Material Description: Non-Hazardous Auto Care Product

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

SECTION 2 — PHYSICAL DATA

Boiling Point: 365 - 417°F (185 - 215°C) Specific Gravity (H₂O=1): 0.768

Vapor Pressure: Not applicable Vapor Density: Not applicable

Percent Volatile By Volume (%): 100 Density: 768 – 820 kg/m³ @ 15°C.

Solubility in Water: Insoluble Evaporation Rate (Butyl Acetate=1): Not applicable

Appearance and Odor: Amber liquid with fruity, hydrocarbon odor.

Volatile Organic Compound (VOC) (as packaged minus water): Not determined

SECTION 3 — HAZARDOUS INGREDIENTS

| CAS Reg. No. | Material | Percentage | Exposure Limits |
|---|------------------------|------------|-------------------------------|
| 64742-96-7 | Mineral Spirits | 75 - 85 | 100 ppm OSHA 100 ppm ACGIH |
| New Jersey Trade Secret Registration #00850201001-5473P | | 1 - 10 | None established |
| 64742-94-5 | Heavy Aromatic Solvent | 1 - 10 | None established |

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| SECTION 4 — FIRE AND EXPLOSION HAZARD DATA |
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Flash Point: 144°F (62°C)

Method Used: PMCC

Autoignition: Not determined

Extinguishing Media: Water fog, foam, dry chemical, CO₂.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus. Wear full protective equipment. Cool tank/container with water spray.

Unusual Fire and Explosion Hazards: Product is combustible. Hazardous gases/vapors produced in fire are oxides of nitrogen and carbon monoxide.

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| SECTION 5 — HEALTH HAZARD DATA |
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Effects of Overexposure:

Ingestion: May cause gastrointestinal irritation with upper abdominal pain, “heartburn”, nausea, vomiting and diarrhea. A serious ingestion hazard is aspiration which may result in “chemical pneumonia”. Symptoms include coughing, gasping, choking, shortness of breath, bluish discoloration of the skin, rapid breathing and heart rate and fever. Pulmonary edema or bleeding, drowsiness, confusion, coma and seizures may occur in more serious cases. Symptoms may develop immediately or as late as 24 hours after the exposure.

Inhalation: May cause irritation of the upper respiratory passages; nonspecific discomfort, such as nausea, headache, or weakness; or temporary nervous system depression with anaesthetic effects such as dizziness, headache, confusion, incoordination and loss of consciousness.

Skin Contact: May cause skin irritation with discomfort or rash. Significant skin permeation and systemic toxicity after contact appears unlikely. May cause skin sensitization upon extended contact.

Eye Contact: May cause eye irritation with discomfort, tearing or blurring of vision.

Carcinogenicity: IARC= No; NTP=No; OSHA= No; ACGIH=No

First Aid Procedures:

Ingestion: Do not induce vomiting. Immediately give two glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

Skin Contact: Flush skin with water. Wash contaminated clothing before reuse.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

Notes to Physicians: Activated charcoal mixture may be administered. To prepare activated charcoal mixture, suspend 50 grams activated charcoal in 400 mL water and mix thoroughly. Administer 5 mL/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): Strong oxidizers

Hazardous Decomposition Products: Oxides of nitrogen and carbon monoxide. Decomposition temperature is >100°C (>212 °F).

Hazardous Polymerization: Will not occur.

SECTION 7 — SPECIAL PROTECTION INFORMATION

Respiratory Protection: Where there is potential for airborne exposures, wear NIOSH/MSHA approved respiratory protection.

Ventilation: Use only with adequate ventilation. Keep container tightly closed.

Protective Gloves: Have impervious gloves available and wear as appropriate.

Eye Protection: Wear safety glasses or coverall chemical splash goggles.

Other Protective Equipment: Where there is potential for skin contact, have available and wear as appropriate impervious apron, pants and jacket.

SECTION 8 — SPILL OR LEAK PROCEDURES

Steps To Be Taken In Case Material Is Released or Spilled: Remove sources of heat, sparks, flame, impact, friction or electricity. Dike spill. Prevent material from entering sewers, waterways or low areas. Soak up with sawdust, sand, oil dry or other absorbent material.

Waste Disposal Method: Must be in accordance with applicable federal, state and local regulations.

SECTION 9 — SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling and Storage: Avoid breathing vapors or mist. Avoid contact with eyes, skin or clothing. Wash thoroughly after handling. Wash clothing after use. Keep away from heat, sparks and flames. Keep container in a cool place. Store in a well ventilated and cool place. Keep container tightly closed.

Date entered: 11/14/96

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