



CYCLO[®] INDUSTRIES, INC.

MATERIAL SAFETY DATA SHEET

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 AND COMPANY IDENTIFICATION

Product Name: C-21 Cyclo[®] Diesel Fuel Injector Cleaner

Product Use: Diesel fuel injector cleaner that is added to the diesel fuel tank.

Manufactured by: Cyclo Industries, Inc., 401 Maplewood Drive, Suite 18, Jupiter, FL 33458
Telephone: (561) 775-9600

First Aid Emergency: (800) 752-7869 or (312) 906-6194

Shipping Emergency: (800) 424-9300 or (703) 527-3887 (CHEMTREC)

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

SECTION 2 - COMPOSITION/INFORMATION ON 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 |

SECTION 3 - HAZARDS IDENTIFICATION

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 or 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

SECTION 4 - FIRST AID MEASURES

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 5 - FIRE FIGHTING MEASURES

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.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Spill/Leak Procedures: 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 7 - HANDLING AND STORAGE

Handling & Storage Procedures: 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.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

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 9 - PHYSICAL AND CHEMICAL PROPERTIES

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 10 - STABILITY AND REACTIVITY

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 11 - TOXICOLOGICAL INFORMATION

Toxicological Data: Long-term toxicological studies have not been conducted for this product. See Section 3 of this MSDS for acute symptoms of overexposure and carcinogenicity information.

SECTION 12 - ECOLOGICAL INFORMATION

Aquatic/Terrestrial Toxicity Environmental Fate No data is available at this time.

SECTION 13 - DISPOSAL CONSIDERATIONS

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 14 - TRANSPORT INFORMATION

U.S. DOT

| | |
|------------------------------|--------------------------|
| Shipping Description: | Consumer Commodity ORM-D |
| ID Number: | Not applicable |
| Hazard Class: | ORM-D |
| Packing Group: | Not applicable |
| Label: | Not applicable |
| Placards: | Not applicable |

IMDG

| | |
|------------------------------|--|
| Shipping Description: | Flammable liquid N.O.S. (contains Petroleum distillates) Ltd. Qty. |
| ID Number: | 1993 |
| Hazard Class: | 3 |
| Packing Group: | III |
| Label: | Not applicable |
| Markings: | Not applicable |
| Placards: | Not applicable |

SECTION 15 - REGULATORY INFORMATION

TSCA Inventory: All components of this product are listed on the Toxic Substance Control Act (TSCA) Inventory of chemical substances maintained by the U.S. Environmental Protection Agency.

SARA Extremely Hazardous Substances None

SARA Section 313 This product does not contain any toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372 (SARA 313 – Toxic Chemical Release Reporting)

CERCLA/Superfund (RQ): This product is not subject to CERC LA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

California Proposition 65: This product does not contain chemicals known to the State of California to cause cancer, birth defects and other reproductive harm.

SECTION 16 - OTHER INFORMATION

Document Date: 12/30/08

Supersedes: 1/7/08

Revisions: Sections: Have to put sections in and what changes occurred. Cyclo Industries became incorporated. Address change.

12/30/08: Formula review

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