

DuraClean Concentrate

MATERIAL SAFETY DATA SHEET

Emergency Phone Number: 800-446-4910

Date : April 1, 2007

SECTION 1

Company Name: Frontier Resource and Recovery Services, Inc.
Address: P.O. Box 563, Lewiston, NY 14092
Phone / Fax: 800-446-4910 / 905-984-6684
Trade Name: DuraClean Concentrate
Chemical Name: Synthetic Cleaners
Chemical Family: Synthetic Cleaners
Formula: Proprietary
CAS#: Proprietary
Applications: DuraClean Concentrate is used as a heat transfer system cleaner in a number of Industrial fluid applications.

COMPANY IDENTIFICATION AND CHEMICAL PRODUCT

SECTION 2

General: No Special Warning Labels Are Required Under OSHA 29 CFR 1910.1200.
FDA Statement: N/A.

COMPOSITION / INFORMATION ON INGREDIENTS

SECTION 3

Appearance: Clear Liquid, Yellow Tint
Known Hazards: This product does not require any special warning labels under OSHA 29 CFR 1910.1200 and contains no known hazardous ingredients.

HAZARDS IDENTIFICATION

SECTION 4

Eyes: Flush with clean, lukewarm water (low pressure) occasionally lifting eyelids. Physician assessment if eyes are inflamed.
Skin: Wash affected areas thoroughly with soap and water. Wash contaminated clothing before reuse.
Inhalation: Avoid breathing oil mists. Remove to fresh air. Give artificial respiration if not breathing. Oxygen may be given by qualified personnel if breathing is difficult. Get medical attention.
Ingestion: Do not induce vomiting. Force fluid. Has laxative effect.

FIRST AID MEASURES

SECTION 5

Flash Point: 412 °F
Flammable Limits: N/A
Auto Ignition Temp: N/A
Fire & Explosion Hazards: LOW FIRE HAZARD - Do not cut, drill, or weld empty containers
Extinguishing Media: Dry chemical foam, water spray, carbon dioxide for small fires
Fire Fighting Procedures: Contain liquid, cover with extinguishing agent, use water spray to cool fire exposed containers & as protective screen. Do not point solid water stream directly into burning fluid to avoid spreading.

FIRE FIGHTING MEASURES

SECTION 6

Spill or Leak: Contain spill, absorb with inert absorbant such as dry clay, sand, or diatomaceous earth, commercial absorbants or recover using pumps. Scoop up used absorbants into appropriate receptacles.
Waste Disposal: Dispose in approved, secure landfill site or through a licensed waste reclaimer.

ACCIDENTAL RELEASE MEASURES

SECTION 7 HANDLING AND STORAGE
 Storage Temp - min / max: None/ 104 °F recommended
 Shelf Life: Indefinite in original container
 Precautions: Not for internal use. Avoid contact with skin, eyes, and clothing.

SECTION 8 EXPOSURE CONTROL / PERSONAL PROTECTION
 Eye Protection: Normally none required, chemical goggles if splashing is likely or high pressure systems are used.
 Skin Protection: For direct contact of more than 2 hours, PVC, Viton, or Nitrile gloves are recommended.
 Respiratory Protection: Normally not necessary. If mist is generated, wear approved organic vapor respirator suitable for oil mist areas with sufficient oxygen.
 Ventilation: General ventilation.
 Exposure Limits: Acute LD₅₀ > 5000 mg/Kg (rat:Oral) Practically Non Toxic

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES
 Appearance: Clear Liquid, Yellow Tint
 Boiling Point: >570 °F
 Vapor Pressure: <0.001 kPa @25 °C
 Specific Gravity: 0.85-0.95
 Volatilities, % Volume: 0%
 Odor: Hydrocarbon Odor
 Solubility in Water: Negligible
 Evaporation Rate: Nil
 Viscosity: @40°C Varies Depending on grade

SECTION 10 REACTIVITY
 Stability: Product is stable
 Hazardous Polymerization: Will not occur
 Incompatibilities: Strong oxidizers
 Decomposition Products: Analogous compounds evolve, carbon monoxide, carbon dioxide, and other undefined fragments when burned.

SECTION 11 TOXICOLOGICAL INFORMATION
 General: Acute LD₅₀ > 5000 mg/Kg (rat,oral) negative when tested > by modified Ames Test for Carcinogenicity

SECTION 12 ECOLOGICAL INFORMATION
 General: N / A

SECTION 13 DISPOSAL CONSIDERATIONS
 Waste Disposal: Used product must be disposed of in accordance with Federal, State, and Local environmental control regulations. Incineration is preferred.
DO NOT HEAT OF CUT EMPTY CONTAINER WITH ELECTRIC OR GAS TORCH.

SECTION 14 TRANSPORTATION INFORMATION
 Technical Name: Synthetic Ester and Cleaners
 D.O.T. Hazard Class: Not Regulated
 U.N. / N.A. #: Not Regulated
 Product Label: DuraClean Concentrate

SECTION 15 REGULATORY INFORMATION
 OSHA STATUS: Not hazardous under 29 CFR 1910.1200.
 TSCA STATUS: All components in this formulation are listed on the TSCA Inventory.
 RCRA STATUS: If discarded in its purchased form, this product would not be a hazardous waste either by listing or characteristic. However, it is the responsibility of the product user to determine at the time of disposal, whether the material being disposed of is a hazardous waste. (40 CFR 261.20-24)

HMIS(U.S.A.)

Health Hazard	1
Fire Hazard	1
Reactivity	0
Personal Protection	B

NFPA (U.S.A.)



Rating

- 0 Insignificant
- 1 Slight
- 2 Moderate
- 3 High
- 4 Extreme

SECTION 16 OTHER INFORMATION
 General: This information is furnished without warranty expressed or implied, except that it is accurate to the best knowledge of Frontier Resource and Recovery Services, Inc.. The data on this sheet related only to the specific material designed herein. Frontier Resource and Recovery Services, Inc. assumes no legal responsibility for the use or reliance upon these data.