

DURACLEAN FG

MATERIAL SAFETY DATA SHEET

Emergency Phone Number: 800-446-4910

Date : Feb 1 2010

SECTION 1

COMPANY IDENTIFICATION AND CHEMICAL PRODUCT
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 FG
Chemical Name: Synthetic Hydrocarbon and Cleaners
Chemical Family: Synthetic Hydrocarbon and Cleaners
Formula: Proprietary
CAS#: Proprietary
Applications: Duraclean FG is used as a heat transfer system cleaner in applications where incidental food contact is possible. It complies with FDA 21 CFR 178.3570

SECTION 2

COMPOSITION / INFORMATION ON INGREDIENTS
General: This Product is Non-Hazardous. The product contains No Known Carcinogens. No Special Warning Labels Are Required Under OSHA 29 CFR 1910.1200.
FDA Statement: N/A.

SECTION 3

HAZARDS IDENTIFICATION
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.

SECTION 4

FIRST AID MEASURES
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.

SECTION 5

FIRE FIGHTING MEASURES
Flash Point: 455 °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.

SECTION 6

ACCIDENTAL RELEASE MEASURES
Spill or Leak: Contain spill, absorb with inert absorbant such as dry clay, sand, or diatomaceous earth, commercial sorbants 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.

SECTION 7

Storage Temp - min / max:
Shelf Life:
Precautions:

HANDLING AND STORAGE

None/ 104 °F recommended
Indefinite in original container
Not for internal use. Avoid contact with skin, eyes, and clothing.

SECTION 8

Eye Protection:
Skin Protection:
Respiratory Protection:

EXPOSURE CONTROL / PERSONAL PROTECTION

Normally none Required, Chemical goggles if splashing is likely or high pressure systems are used.
For direct contact of more than 2 hours, PVC, Viton, or Nitrile gloves are recommended.
Normally not necessary. If mist is generated, wear approved organic vapor respirator suitable for oil mist areas with sufficient oxygen.

Ventilation:
Exposure Limits:

General ventilation.
Acute LD₅₀ > 5000 mg/Kg (rat:Oral) Practically Non Toxic

SECTION 9

Appearance:
Boiling Point:
Vapor Pressure:
Specific Gravity:
Volatilities, % Volume
Odor:
Solubility in Water:
Evaporation Rate:
Viscosity:

PHYSICAL AND CHEMICAL PROPERTIES

Clear Liquid, Yellow Tint
>570 °F
<0.001 kPa @25 °C
0.85-0.95
0%
Hydrocarbon Odor
Negligible
Nil
@40°C Varies Depending on grade

SECTION 10

Stability:
Hazardous Polymerization:
Incompatibilities:
Decomposition Products:

REACTIVITY

Product is stable
Will not occur
Strong oxidizers
Analogous compounds evolve, carbon monoxide, carbon dioxide, and other undefined fragments when burned.

SECTION 11

General:

TOXICOLOGICAL INFORMATION

Acute LD₅₀ > 5000 mg/Kg (rat,oral) Negative when tested by modified Ames Test for Carcinogenicity

SECTION 12

General:

ECOLOGICAL INFORMATION

N / A

SECTION 13

Waste Disposal:

DISPOSAL CONSIDERATIONS

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

Technical Name:
D.O.T. Hazard Class:
U.N. / N.A. #
Product Label:

TRANSPORTATION INFORMATION

Synthetic Hydrocarbon, Ester and Cleaners
Not Regulated
Not Regulated
Duraclean FG

SECTION 15

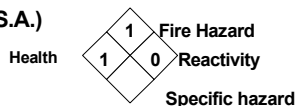
OSHA STATUS:
TSCA STATUS:
RCRA STATUS:

REGULATORY INFORMATION

Not hazardous under 29 CFR 1910.1200.
All components in this formulation are listed on the TSCA Inventory.
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

General:

OTHER INFORMATION

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.