

DURATHERM FG

MATERIAL SAFETY DATA SHEET

Emergency Phone Number: 800-446-4910

Date : April 1, 2007

SECTION 1

Company Name:

COMPANY IDENTIFICATION AND CHEMICAL PRODUCT

Frontier Resource and Recovery Services, Inc.

Address:

P.O. Box 563, Lewiston, NY 14092

Phone / Fax:

800-446-4910 / 905-984-6684

Trade Name:

Duratherm FG - Food Grade Heat Transfer Fluid

Chemical Name:

Paraffinic Hydrocarbon

Chemical Family:

Paraffinic Hydrocarbon

Formula:

Proprietary

CAS#:

Proprietary

Applications:

Duratherm FG Food Grade Heat Transfer Fluid is for use in applications where incidental food contact is possible. It complies with FDA 21 CFR 178.3570 and is NSF registered

SECTION 2

General:

COMPOSITION / INFORMATION ON INGREDIENTS

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:

This product complies with FDA 21 CFR 178.3570 regarding lubricants for incidental food contact.

SECTION 3

Appearance:

HAZARDS IDENTIFICATION

Clear liquid

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

Eyes:

FIRST AID MEASURES

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

Flash Point:

FIRE FIGHTING MEASURES

440°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

Spill or Leak:

ACCIDENTAL RELEASE MEASURES

Contain spill, absorb with inert absorbants 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.

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:

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, Viton or Nitrile is recommended, otherwise PVC may be worn.

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:

Threshold Limit value : 5mg/m³ ACGIH

SECTION 9

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

PHYSICAL AND CHEMICAL PROPERTIES

Clear liquid, Light Yellow to Light Brown Tint
>400 °F
<0.01 mmHg @ 20 °C
0.79 - 0.85
0%
None
Insoluble
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

Product complies with FDA 21 CFR 178.3570 regarding lubricants for incidental food contact.

SECTION 12

General:

ECOLOGICAL INFORMATION

No data available

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 OR 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
Not Regulated
Not Regulated
Duratherm FG - Food Grade Heat Transfer Fluid

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	①
Personal Protection	B

NFPA (U.S.A.)

Rating

0	Insignificant
1	Slight
2	Moderate
3	High
4	Extreme

SECTION 16

General:

OTHER INFORMATION

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