

# DURATHERM LT

## 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 LT High Temperature Heat Transfer Fluid

Chemical Name:

Synthetic Hydrocarbon

Chemical Family:

Synthetic Hydrocarbon

Formula:

Proprietary

CAS#:

Proprietary

Applications:

Duratherm LT High Temperature Heat Transfer Fluid is for use as a heat transfer fluid in various applications.

### 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:

N/A

### 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

325 °F min

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:  
Respiratory Protection:  
Ventilation:  
Exposure Limits:

**EXPOSURE CONTROL / PERSONAL PROTECTION**

Normally none required, chemical goggles if splashing is likely or high pressure systems are used.  
Normally none required, for direct contact of more than 2 hours, Viton or Nitrile is recommended.  
Normally not necessary. If mist is generated, wear approved organic vapor respirator suitable for oil mist areas with sufficient oxygen.  
General ventilation.  
Acute LD<sub>50</sub> > 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, Very Slight Yellow Tint  
>570 °F  
<0.003 kPa @ 25 °C  
0.84 - 0.92  
0%  
Very Slight 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 LD<sub>50</sub> > 5000 mg/Kg (rat, Oral) Practically Non-Toxic. Negative when tested by modified Ames Test For Carcinogenicity

**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 LT High Temperature 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	0
Personal Protection	B

NFPA (U.S.A.)

Health	1	0	Specific hazard
	1	0	

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.