

# DURATHERM HTO

## MATERIAL SAFETY DATA SHEET

Emergency Phone Number: 800-446-4910

Date : May 1st 2009

### 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: Duratherm HTO  
Chemical Name: Petroleum Hydrocarbon  
Chemical Family: Petroleum Hydrocarbon  
Formula: Proprietary  
CAS#: Proprietary  
Applications: Duratherm HTO is used as a Heat Transfer Fluid

### SECTION 2

### COMPOSITION / INFORMATION ON INGREDIENTS

General: The product contains No Known Carcinogens. Mixture is considered a skin and eye irritant.  
FDA Statement: N/A

### SECTION 3

### HAZARDS IDENTIFICATION

Appearance: Clear liquid, Very slight yellow tint.  
Known Hazards: The product contains No Known Carcinogens. Mixture is considered a skin and eye irritant.

### 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 fluids.

### SECTION 5

### FIRE FIGHTING MEASURES

Flash Point: Liquid 400°F  
Flammable Limits: N/A  
Auto Ignition Temp: 685°F Estimated  
Fire & Explosion Hazards: 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 and 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 absorbent such as dry clay, sand, or diatomaceous earth, commercial sorbents or recover using pumps. Scoop up used absorbents into approved 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  
1 year  
Not for internal use. Avoid contact with skin, eyes, clothing.

**SECTION 8**

Eye Protection:  
Skin Protection:  
Respiratory Protection:  
  
Ventilation:

**EXPOSURE CONTROL / PERSONAL PROTECTION**

Chemical goggles or splash proof face shield.  
Wear chemical resistant gloves, avoid contact with skin.  
Normally not necessary. If mist is generated, wear approved organic respirator suitable for oil mist areas with sufficient oxygen.  
General ventilation.

Exposure Limits:

Recommended Occupational Exposure Limit 100 PPM (8Hrs)

**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  
NA  
0.85-0.87  
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**

Harmful if swallowed. Negative when tested by modified Ames test for carcinogenicity.

**SECTION 12**

General:

**ECOLOGICAL INFORMATION**

Biodegradable CEC L33T82 > 80% @ 28 Days

**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**

Petroleum Hydrocarbon  
Not Regulated  
N/A  
Duratherm HTO

**SECTION 15**

OSHA STATUS:  
TSCA STATUS:  
RCRA STATUS:

**REGULATORY INFORMATION**

N/A  
N/A  
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).

**SECTION 16**

General:

**OTHER INFORMATION**

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