



# MERCOFrames OPTICAL CORP

5555 Nw 74 Ave. Miami, Fl. 33166

Tel. 305-882-0120

ale@mercoframes.com

## MATERIAL SAFETY DATA SHEET

---

### HEAT TRANSFER FLUID

#### SECTION 1 - PRODUCT IDENTIFICATION

---

Trade name:

Heat Transfer Fluid

DOT Shipping name:

Not regulated

Chemical Family:

Solvent

DOT Hazard class:

Not Regulated

Co. ID No.:

HTF

CAS NO.:

Mixture

UN/NA#:

NA 1993

#### SECTION 2 - HAZARDOUS INGREDIENTS / EXPOSURE LIMITS

---

HAZARDOUS INGREDIENTS	CAS #	TLV/PEL	AGENCY	TYPE
None				

#### SECTION 2A - SARA 313 LISTED CHEMICALS

---

LISTED INGREDIENTS	CAS #	WT. %	RANGE
None			

### **SECTION 3 - EMERGENCY AND FIRST AID PROCEDURES**

---

**EYE CONTACT:**

If irritation or redness develops, flush eyes with clean water and seek medical attention.

**SKIN CONTACT:**

Cleanse affected areas thoroughly by washing with mild soap water. If irritation persists, seek medical attention.

**INHALATION (BREATHING):**

Not expected to present a significant inhalation hazard under anticipated conditions of normal use.

**INGESTION (SWALLOWING):**

If swallowed, seek emergency medical attention. Do not induce vomiting. Seek immediate medical attention.

### **SECTION 4 - HEALTH HAZARDS / ROUTES OF ENTRY**

---

**EYE CONTACT:**

Direct contact with the liquid or exposure may cause stinging, tearing, redness or swelling.

**SKIN CONTACT:**

Contact with this material may cause drying of the skin.

**SKIN ABSORPTION:**

Symptoms of toxicity are not anticipated by this route alone.

**INHALATION (BREATHING):**

Inhalation of concentrated vapors can cause headache and respiratory fatigue.

**INGESTION (SWALLOWING):**

While this material has a low degree of toxicity, ingestion of large quantities may cause the following:

Irritation of the digestive tract.

Signs of nervous system depression, such as, headache, drowsiness, dizziness, loss of coordination, fatigue and nausea.

**ASPIRATION HAZARD:**

Components of this material can enter the lungs during swallowing and cause lung inflammation and damage.

**TARGET ORGAN TOXIN:**

Central nervous system, respiratory system.

### **SECTION 5 - SPECIAL PROTECTION INFORMATION**

---

**VENTILATION:**

Ventilation or exhaust systems may be required.

**RESPIRATORY PROTECTION:**

Recommended but not necessary.

**PROTECTIVE GLOVES:**

Recommended but not necessary.

**EYE PROTECTION:**

Approved eye protection to safeguard against potential eye contact is recommended.

## **SECTION 6 - REACTIVITY DATA**

---

### **STABILITY:**

Stable

### **INCOMPATIBILITY (MATERIALS TO AVOID):**

This product is incompatible with:

Strong acids or bases, Oxidizing agents, Selected amines

### **HAZARDOUS DECOMPOSITION PRODUCTS:**

Will not occur.

### **HAZARDOUS POLYMERIZATION:**

Will not occur.

## **SECTION 7 - SPILL OR LEAK PROCEDURES**

---

### **PRECAUTIONS IN CASE OF LEAK OR SPILL:**

Spilled material may be absorbed by an appropriate absorbent.

### **WASTE DISPOSAL METHOD:**

Dilute aqueous waste may biodegrade. Soil or water should not be designated RCRA hazardous waste. Dispose of in accordance with local, county, state and federal regulations.

## **SECTION 8 - STORAGE AND SPECIAL PRECAUTIONS**

---

### **HANDLING AND STORAGE PRECAUTIONS:**

Keep containers tightly closed, cool, dry and away from all sources of ignition.

## **SECTION 9 - FIRE AND EXPLOSION HAZARD DATA**

---

### **EXTINGUISHING MEDIA:**

Extinguish with dry chemical, CO<sub>2</sub> or a universal type foam.

### **FIRE AND EXPLOSION HAZARD:**

None.

### **FIRE FIGHTING PROCEDURES:**

Wear appropriate protective equipment including respiratory protection as conditions warrant. Water spray may be useful in minimizing or dispersing vapors and cooling equipment exposed to heat and flame.

## SECTION 10 - PHYSICAL DATA

---

APPROXIMATE BOILING POINT (DEG F):

204

PERCENT VOLATILE:

97

SPECIFIC GRAVITY (68 f):

0.986

FLASH POINT, (TCC, DEG F):

158

RELATIVE EVAPORATION RATE (ESTIMATED):

>1 (nBuOAC=1)

PERCENT SOLUBILITY IN WATER (ESTIMATED):

100

VAPOR PRESSURE @68 F (ESTIMATED):

5 mmHg

## SECTION 11 - OTHER REGULATORY DATA

---

SARA

SECTION 311,312: YES

TSCA

ALL COMPONENTS ARE IN FULL COMPLIANCE WITH THE TSCA INVENTORY.

RCRA

IF THIS MATERIAL BECOMES A WASTE, IT WOULD BE CLASSIFIED AS D001.

CARCINOGENICITY

NOT LISTED UNDER IARC OR NTP.

HMIS

HEALTH 0

FLAMMABILITY 1

REACTIVITY 0

CALIFORNIA PROPOSITION 65

THIS PRODUCT DOES NOT CONTAIN CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

CERCLA

NONE

PRODUCT: Heat Transfer Fluid

DATE OF ISSUE: 01/2012