

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** ECOSE® Heat Transfer Fluid 22, 32, 46, 68, 100

**Other means of identification:** Heat Transfer Fluid

**SDS Number:** 537101

**CAS Number:** Blend

**CHEMTREC:** 1-800-424-9300 (For emergencies)

**Supplier:**

Nu-Tier Brands, Inc.  
8282 S. Memorial Dr., Suite 302  
Tulsa, OK 74133  
1-877-771-5823 (For Product Information)  
www.nu-tierbrands.com

### 2. HAZARDS IDENTIFICATION

**Classified Hazards**

**GHS Phrases:**  
H401 – Toxic to aquatic life.

**GHS Precautionary Statements:**  
P273 – Avoid release to the environment.

**Label Elements**

GHS Signal Word:  
NONE  
GHS Classifications:  
Environmental, Hazards to the aquatic environment – Acute, 2

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS	Concentration
Distillates, petroleum, solvent dewaxed heavy paraffinic	64742-65-0	>90%
Non-Hazardous material	VARIOUS	<10%

The highly refined mineral oil contains <3% (w/w) DMSO-extract, according to IP346.

### 4. FIRST AID MEASURES

**INHALATION FIRST AID:** If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.

**SKIN CONTACT FIRST AID:** Wash with soap and water. Remove contaminated clothing and wash before reuse. Get medical attention if needed.

**EYE CONTACT FIRST AID:** Flush with water for several minutes. If effects occur, consult a physician.

**INGESTION FIRST AID:** Rinse mouth with water. If symptoms develop, obtain medical attention.

### 5. FIREFIGHTING MEASURES

**NFPA 704 Hazard Class**

**Health:** 0

**Flammability:** 1

**Instability:** 0



0 (Minimal)  
1 (Slight)  
2 (Moderate)  
3 (Serious)  
4 (Severe)

**Flash Point:** Min 200°C (392.0°F)

**Flash Point Method:** COC

**Extinguishing Media:** Dry chemical, carbon dioxide, foam, or water spray is recommended. Water or foam may cause frothing of materials heated above 212°F/100°C. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.



# Heat Transfer Fluid SDS - Safety Data Sheet

### Specific hazards arising from the chemical:

**Unusual Fire & Explosion Hazards:** This material may burn, but will not ignite readily. If container is not properly cooled, it can rupture in the heat of a fire.

**Hazardous Combustion Products:** Combustion may yield smoke, carbon monoxide, and other products of incomplete combustion. Oxides of sulfur, nitrogen or phosphorus may also be formed.

**Special protective actions for firefighters:** For fires beyond the initial stage, emergency responders in the immediate hazard area should wear protective clothing. When the potential chemical hazard is unknown, in enclosed or confined spaces, a self contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done safely. Avoid spreading burning liquid with water used for cooling purposes.

See Section 9 for Flammable Property Including Flash Point

## 6. ACCIDENTAL RELEASE MEASURES

Contain spilled material.  
Collect in suitable and properly labeled containers.  
Pick up excess with inert absorbent material.  
Keep away from drains and ground water.

## 7. HANDLING AND STORAGE

### HANDLING PRECAUTIONS:

Avoid contact with eyes, skin, or clothing.  
Keep away from sources of ignition.  
Handle with care and avoid spillage on the floor (slippage).

### STORAGE REQUIREMENTS:

Keep away from sources of ignition.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### ENGINEERING CONTROLS:

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94).

### PERSONAL PROTECTIVE EQUIPMENT:

Use of safety glasses and gloves are recommended.

Chemical Name	ACGIH	OSHA	Other
Distillates, petroleum, solvent-dewaxed heavy paraffinic	TWA: 5mg/m <sup>3</sup> STEL: 10mg/m <sup>3</sup> As Oil Mist, if Generated	TWA: 5mg/m <sup>3</sup> As Oil Mist, if Generated	

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Note: Data represents typical values and are not intended to be specifications.**

Appearance: Amber  
Physical State: Liquid  
Viscosity: 4.0-15.6 cSt @ 100°C; 19.5-100.0 cSt @40°C  
Spec. Grav./Density: 7.18 – 7.32 lbs/gal @ 60°F  
Solubility: Nil in water  
Flash Point: >390°F / >200°C

## 10. STABILITY AND REACTIVITY

**REACTIVITY:** Not chemically reactive.

**CHEMICAL STABILITY:** Stable under normal ambient and anticipated conditions of use.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Hazardous reactions not anticipated.

**CONDITIONS TO AVOID:** Avoid all possible sources of ignition. Extended exposure to high temperatures can cause decomposition.

**INCOMPATIBLE MATERIALS:** Avoid contact with strong oxidizing agents and strong reducing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Not anticipated under normal conditions of use.

## 11. TOXICOLOGICAL INFORMATION

Repeated skin contact with this product may cause dermatitis or an oil acne.

No test data available on product.

No component is listed as a carcinogen, mutagen, or teratogen.

LD50/LC50 – No data available.

## 12. ECOLOGICAL INFORMATION

Avoid exposing to the environment, no specific aquatic data available.

## 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations.

Do not flush to surface water or drains.

## 14. TRANSPORTATION INFORMATION

Not regulated by DOT

## 15. REGULATORY INFORMATION

This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA).

## 16. OTHER INFORMATION

The data in this Safety Data Sheet relates only to the specific material designated herein.

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Nu-Tier Brands, Inc.. The data on this sheet are related only to the specific material designated herein. Nu-Tier Brands, Inc. assumes no legal responsibility for use or reliance upon these data.

END OF SDS