PO BOX 9699
Bloemfontein
9300

Fax: 051 433 4337
Mobile: 082 800 4599
E-mail: bertus@fleetline.co.za
Website: www.fleetline.co.za

HEAT TRANSFER 32

HEAT TRANSFER 32 is a paraffinic mineral l based oil used in enclosed circulating systems for the transfer of heat. HEAT TRANSFER 32 has good oxidation and thermal stability without the use of antioxidants.

OUTSTANDING FEATURES

HEAT TRANSFER 32 has the following features :

- Non additive mineral oil
- Good oxidation and termal stability

DIRECTIONS FOR USE

HEAT TRANSFER 32 is recommended for use in all heat transfer operations where additives are not required.

TECHNICAL DATA

APPEARANCE	**Pale Yellow Fluid**
DENSITY @ 20ºC	**0.864**
VISCOSITY @ 40ºC	**30 – 34 cSt**
TOTAL ACID NO.	**0.01 – 0.03 mgKOH/g**

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name	FLEETLINE HEAT TRANSFER OIL
Manufacturer/Supplier	PO BOX 9699 Bloemfontein 9300

Fax: 051 433 4337
Mobile: 082 800 4599
E-mail: bertus@fleetline.co.za
Website: www.fleetline.co.za

2. COMPOSITION/INFORMATION ON THE COMPONENTS

Hazardus Components in Product

Component Name	Codes	Concentration	R Phrases	Classification
SOLVENT REFINED MINERAL OIL		100.00		

3. HAZARD IDENTIFICATION

Main Hazards	Not hazardous according to OSHA 29 CFR 1910.1200
Health Effects – Eyes	May cause irritation to the eyes.
Health Effects – Skin	No hazard providing normal cleansing is carried out.
Health Effects – Ingestion	No problems expected for minor ingestion. However, for amounts exceeding ½ litre give 1 or 2 glasses of water and call a doctor.
Health Effects – Inhalation	May cause irritation, dizziness or nausea if inhaled over a prolonged period, especially whilst hot.

4. FIRST AID MEASURES

First Aid – Eyes	Flush thoroughly with water. If irritation occurs, call a doctor.
First Aid – Skin	Wash skin with soap and water.
First Aid – Ingestion	Wash out mouth with water. Obtain medical attention. Do not induce vomiting.
First Aid – Inhalation	Remove from exposure and if the patient experiences irritation, nausea or unconsciousness, seek medical assistance.

5. FIRE FIGHTING MEASURES

Extinguishing Media	Use foam, dry chemical, carbon dioxide or water fog.
Unsuitable Extinguishing Media	Do not use water jet.
Special Hazards of Product	No special hazards.
Protective Equip, for Fire-Fighting	Wear self-contained breathing apparatus for fires in enclosed spaces.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Material can create slippery conditions underfoot.
Environmental Precautions	Try to prevent the material from entering drains or watercourses.
Spillages	Contain and absorb using diatomaceous earth or other inert material. Transfer into suitable containers for disposal.

7. HANDLING AND STORAGE

Handling	No special precautions are required.
Storage	Storage temperature should be controlled to between 1 and 40 ℃. Where outside storage of drums is unavoidable, they should be stored horizontally to avoid ingress of water.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards	
OIL MIST, CHEMICAL	UK EH40: OES 5mg/m³ 8 h TWA. UK EH40: OES 10mg/m³ 15 min TWA.
Engineering Control Measures	Exposure to this material may be controlled in a number of ways. The measures appropriate for a particular worksite depend on how the material is used and on the potential for exposure. Use of the basic principles of industrial Hygiene will enable this material to be used safely.
Respiratory Protection	Respiratory protection is not normally required.
Hand Protection	No special protection needed. However, good personal hygiene practices should always be followed.
Eye Protection	Chemical goggles if there is a risk of eye contact.
Body Protection	Normal work wear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Colour	Amber
Odour	Faint
pH	N/A
Boiling Range/Point (ºC)	Boils above 320ºC
Flash Point (PMCC) (ºC)	Exceeds 200 ºC
Solubility in Water (kg/m³)	Insoluble
Density (kg/m³)	0.885 kg per litre
Auto-flammability (ºC)	Above 350ºC
Viscosity (cSt)	

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions
Conditions to Avoid	Strong oxidation
Materials to Avoid	Strong oxidizing agents
Hazardous Decomposition Products	Combustion will generate carbon monoxide and smoke, possibly thick and choking, resulting in zero visibility.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	Low order of acute toxicity.

12. ECOLOGICAL INFORMATION

Mobility	The product will leach into soil and will float on water.
Persistence/Degradability	The product is expected to biodegrade very slowly with time.

13. DISPOSAL

Product Disposal	Dispose of in accordance with all applicable local and national regulations.
Container Disposal	An approved drum recycler can recycle containers.

14. TRANSPORT INFORMATION

Un Class	Not classified
IMO Class	Not classified
IMDG Class	Not classified
IATA Class	Not classified

15. REGULATORY INFORMATION

Labelling information	Irritant
Government Inventory Status	Not established.
US Superfund Amendments	This product contains no “Extremely Hazardous Substances”

16. OTHER INFORMATION

MSDS First Issued	01 May 2001
MSDS Data Revised	01 May 2001
Product Use	Heat Transfer Oil.

To the best of our knowledge, the information contained herein is accurate. Although certain hazards may be described we cannot predict that these are the only hazards, or combination of hazards, that may exist in a workplace. This MSDS, therefore, forms a component only of a risk assessment carried out by, or on behalf of, the user.