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HEAT TRANSFER 22

HEAT TRANSFER 22 is a paraffinic mineral I based oil used in enclosed circulating systems for the transfer of heat. HEAT TRANSFER 22 has good oxidation and thermal stability without the use of antioxidants.

OUTSTANDING FEATURES

HEAT TRANSFER 22 has the following features :

- Non additive mineral oil
- Good oxidation and thermal stability

DIRECTIONS FOR USE

HEAT TRANSFER 22 is recommended for use in all heat transfer operations where additives are not required.

TECHNICAL DATA

| | |
|-------------------------|----------------------------|
| APPEARANCE | Pale Yellow Fluid |
| DENSITY @ 20°C | 0.864 |
| VISCOSITY @ 40°C | 20 – 24 cSt |
| TOTAL ACID NO. | 0.01 – 0.03 mgKOH/g |

1. PRODUCT AND COMPANY IDENTIFICATION

| | |
|-----------------------|---|
| Trade Name | FLEETLINE AUTOMATIC GEAR OIL |
| Manufacturer/Supplier | FLEETLINE LUBRICANTS PO BOX 9699 Bloemfontein 9300 |
| Fax | 051 433 4337 |
| Mobile | 082 800 4599 |
| E-mail | bertus@fleetline.co.za |
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2. COMPOSITION/INFORMATION ON THE COMPONENTS**Hazardous Components in Product**

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

3. HAZARD IDENTIFICATION

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|-----------------------------|--|
| 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

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|------------------------|---|
| 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

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|---------------------------|--|
| 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

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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|---|--|
| Occupational Exposure Standards OIL MIST, CHEMICAL | UK EH40: OES 5mg/m ³ 8 h TWA. UK EH40: OES 10mg/m ³ 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

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|--|--------------------|
| Physical State | Liquid |
| Colour | Amber |
| Odour | Faint |
| pH | N/A |
| Boiling Range/Point (°C) | Boils above 320°C |
| Flash Point (PMCC) (°C) | Exceeds 200 °C |
| Solubility in Water (kg/m ³) | Insoluble |
| Density (kg/m ³) | 0.885 kg per litre |
| Auto-flammability (°C) | Above 350°C |
| Viscosity (cSt) | |

10. STABILITY AND REACTIVITY

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|----------------------------------|---|
| 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

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|----------------|------------------------------|
| Acute Toxicity | Low order of acute toxicity. |
|----------------|------------------------------|

12. ECOLOGICAL INFORMATION

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|---------------------------|--|
| 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

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|--------------------|--|
| 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

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|------------|----------------|
| Un Class | Not classified |
| IMO Class | Not classified |
| IMDG Class | Not classified |
| IATA Class | Not classified |

15. REGULATORY INFORMATION

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|-----------------------------|---|
| Labelling information | Irritant |
| Government Inventory Status | Not established. |
| US Superfund Amendments | This product contains no "Extremely Hazardous Substances" |

16. OTHER INFORMATION

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|-------------------|--------------------|
| 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.