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## **FLEETLINE QUENCHING OIL** **QUENCH OIL**

### **DESCRIPTION**

QUENCH OIL is a standard speed quenching oil which is based on a mineral oil of low viscosity.

### **APPLICATION**

Operating temperatures vary between 25°C and 85°C, although it is recommended that a constant temperature be maintained to ensure uniform quenching characteristics.

In case where standard speed, general purpose quenching oil is required.

When quenching alloys that have good hardening ability, good results with minimum distortion is achieved.

### **BENEFITS**

The **low viscosity** mineral oil ensures good quenching characteristics for thorough hardness

- **Economical to use due to low drag-out;**
- **Quench consistency is maintained by ease of circulation and therefore risk of fire is also reduced.**

### **Minimize volatility**

- **High flash point reduces fire risk and ensures improved working conditions by reducing losses due to evaporation and fuming;**
- **Good oxidation stability reduces acid build-up which decreases the possibility of staining.**
- **Also increases the useful life of oil by reducing sludge build-up and thickening of oil.**

### **TYPICAL PHYSICAL CHARACTERISTICS**

DENSITY @ 20°C KG/L	0.864
VISCOSITY Cst @ 40°C	32
VISCOSITY Cst @ 100°C	4.9
FLASH POINT °C	220
FIRE POINT	248
POUR POINT	-9
NEUTRALISATION No.	0.01

### **PRECAUTION**

- Avoid water entry;
- Allow for thermal expansion when filling quench tank with fresh cold oil.

**1. PRODUCT AND COMPANY IDENTIFICATION**

Trade Name	FLEETLINE QUENCHING OIL
Manufacturer/Supplier	FLEETLINE LUBRICANTS P.O.Box 14527 Wadeville 1422
Phone Number	(011) 827-5848 (011) 827-5832

**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**

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 °C. 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/m <sup>3</sup> 8 h TWA. UK EH40: OES 10mg/m <sup>3</sup> 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 (°C)	Boils above 320°C
Flash Point (PMCC) (°C)	Exceeds 200 °C
Solubility in Water (kg/m <sup>3</sup> )	Insoluble
Density (kg/m <sup>3</sup> )	0.885 kg per litre
Auto-flammability (°C)	Above 350°C
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.

