



MATERIAL SAFETY DATA SHEET

1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product name: Inhibited Insulating Oil Code: 2511-UK
IEC 60296 (03) (I)

Application: Transformer Oil

Company: Electrical Oil Services Limited
Address: PO BOX 79, Stanlow Works,
Bridges Road, Ellesmere Port,
Cheshire CH65 4WD

Telephone : 0845 6021003 Fax: 0845 6021004

2: COMPOSITION/INFORMATION ON INGREDIENTS

Composition: Highly refined mineral oil

Hazardous Ingredient(s)	Symbol	Risk Phrases	Other Information	%
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None of the ingredients of this product are classified as hazardous.

All constituents of this product are listed in EINECS (European Inventory of Existing Commercial Chemical Substances) or ELINCS (European List of Notified Chemical Substances) or are exempt.

Refer to Section 8 for Occupational Exposure Limits.

3: HAZARDS IDENTIFICATION

This product is NOT classified as hazardous.

4: FIRST AID MEASURES

Eyes: Irrigate immediately with copious quantities of water for several minutes.

Skin: Wash thoroughly with soap and water or suitable skin cleanser as soon as possible.

Inhalation: Remove from exposure.

Ingestion: Obtain medical attention. DO NOT induce vomiting

5: FIRE FIGHTING MEASURES

Suitable Extinguishing media: Carbon dioxide, powder, foam or water fog - do not use water jets.

Special Exposure Hazards: None.

Special Protective Equipment: None.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Spilt product presents a significant slip hazard
Environmental Precautions: Prevent entry into drains, sewers and water courses.
Decontamination Procedures: Soak up with inert absorbent or contain and remove by best available means.

7: HANDLING AND STORAGE

Handling: To avoid the possibility of skin disorders, repeated or prolonged contact with products of this type must be avoided. It is essential to maintain a high standard of personal hygiene.

Storage: No special precautions.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure limits:-

Substance	8 Hr.TWA	STEL	Source/Other Information
Mineral oil (see Oil mist, mineral)	5mg/m ³	10 mg/m ³	EH40 (OES)

Engineering Control Measures: Mechanical methods to minimise exposure must take precedence over personal protective measures.

Personal protective Equipment: Avoid skin and eye contact. Wear impervious gloves (e.g. PVC), in case of repeated or prolonged contact. Change contaminated clothing immediately and clean before re-use.

9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Colour:	Amber
Odour:	Mild
Boiling Point/Range (°C):	Above 250
Pour Point (°C):	Below minus 30
Kinematic Viscosity @ 40 °C (cSt):	16
Flash Point (closed °C):	Above 130
Autoignition (°C)	Above 250
Explosive Properties (%):	Explosive limit range (%): Approximately 0.6 - 10
Vapour Pressure (kPa (at 20°C))	Below 0.1
Relative Density (at 20°C)	Below 1.0
Water Solubility:	Insoluble
Fat Solubility:	Not determined

10: STABILITY AND REACTIVITY

Stability:	Stable, will not polymerise
Conditions to Avoid:	Temperatures (°C) above 90
Materials to Avoid:	Strong oxidising agents
Hazardous Decomposition Products:	Irritant fumes

11: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on a knowledge of the toxicity of the product's components. Expected oral LD₅₀rat >2g/kg.

Health Effects:

On Eyes:	May cause transient irritation
On Skin:	Unlikely to cause harm on brief or occasional contact
By Inhalation:	Mist and vapours may cause irritation to nose and respiratory tract.
By Ingestion:	May cause nausea, vomiting and diarrhoea
Chronic:	Repeated and prolonged skin contact may lead to skin disorders
Other:	None known

12: ECOLOGICAL INFORMATION

Environmental Assessment:	When used and disposed of as intended, no adverse environmental effects are foreseen.
Mobility:	Non-volatile. Mobile liquid. Insoluble in water.
Persistence and Degradability:	Inherently biodegradable.
Bioaccumulative Potential:	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.
Ecotoxicity:	Not expected to be toxic to aquatic organisms. Not expected to be inhibitory to sewage bacteria.

13: DISPOSAL CONSIDERATIONS

Disposal must be in accordance with local and national legislation.	
Unused product:	Dispose of through an authorised waste contractor to a licensed site. May be incinerated.
Used/Contaminated Product:	As for Unused Product.
Packaging:	Must be disposed of through an authorised waste contractor. May be steam cleaned and recycled.

14: TRANSPORT INFORMATION

This product is NOT classified as dangerous for transport.

15: REGULATORY INFORMATION

This product is NOT classified as dangerous for supply in the UK.

Hazard Label Data:-

EC Directives:	Waste Oil Directive, 87/101/EEC Framework Waste directive, 91/156/EEC
Statutory Instruments:	Health & Safety at Work, etc. Act 1974 Consumer Protection Act 1987 Environmental protection Act 1990
Codes of Practice:	Waste management. The Duty of Care
Guidance Notes:	Occupational exposure limits (EH40) Carcinogenicity of mineral oils (EH58) Skin cancer caused by oil [MS(B)5]. Save your skin! - Occupational Contact Dermatitis [MS9B)6]. Dermatitis - cautionary notice [SHW 367]. Effects of mineral oil on the skin [SHW 397].

The above publications are available from HMSO or HSE.

16: OTHER INFORMATION

Since the previous issue the following sections have been amended: 1,9, 10, 12, 15 & 16.

The data and advice given apply when the product is sold for the stated application or applications. The product is not sold as suitable for any other application. Use of the product for applications other than as stated in this sheet may give rise to risks not mentioned in this sheet. You should not use the product other than for the stated application or applications without seeking advice from us.

If you have purchased the product for supply to a third party for use at work, it is your duty to take all necessary steps to secure that any person handling or using the product is provided with the information in this sheet.

If you are an employer, it is your duty to tell your employees and others who may be affected of any hazards described in this sheet and of any precautions which should be taken.

Further copies of this Safety Data Sheet may be obtained from Electrical Oil Services Limited.