



ELECTRICAL OIL SERVICES LTD
The Complete Solution

SAFETY DATA SHEET (SDS)

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

Product name: Reclaimed Insulating Oil BS148: 1998
Code: L10B-UK
Chemical name: Distillate (Petroleum), severely Hydrotreated Light Naphthenic
Synonyms:
CAS: 64742-53-6
EINECS: 265-156-6
Index No.: 649-466-00-2
Uses: Electrical insulating oil, insulating oil within transformers

REACH Registration Number: *Pre-Registration of this substance has been completed with ECHA*

Company: Electrical Oil Services Limited
Address: PO BOX 79, Bridges Road, Stanlow Works,
Ellesmere Port, Cheshire CH65 4WD
Telephone : 0845 602 1003
Fax: 0845 602 1004
Responsible Name: Tony O'Regan
Email: OreganA@eosl.co.uk
Emergency: 0845 602 1003 Tony O'Regan OreganA@eosl.co.uk

2: HAZARDS IDENTIFICATION

Not classified as dangerous according to Directive 1999/45/EC, or the CLP Regulation (EC) 1272/2008 Regulation (EC) 1272/2008, ANNEX VI, part 1.1.4. Table 3.2 : Note L: Information related to the classification and labelling of each entry in Table 3.2 : and the results of IP346 'Determination of polycyclic aromatics in unused lubricating base oils...' , with results <3%w/w DMSO extract for total PACs content indicate that the carcinogenic classification is not applicable for this substance

Classification: Non-hazardous
Human health hazards: Avoid contact with skin, inhalation of vapours
Environmental hazards:
Other hazards:

See section 11 for more detailed information on health effects and symptoms.

Notes: A Chemical Safety Report (CSR) according to Regulation (EC) No 1907/2006 has yet to be prepared for this substance and will be included in future revisions upon registration with ECHA

3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance or Preparation:

Component	CAS	EINECS	%	Classification
Distillate (Petroleum), severely Hydrotreated Light Naphthenic	64742-53-6	265-156-6	>99.9%	Carc. Cat. 2; R45
Polychlorinated Biphenyls	1336-36-3	-	<0.001%	

*PCB content is <0.005%, Regulation (EC) No 1907/2006, Annex XVII restriction and included for reference due to EC workspace exposure limit requirements. Refer to Section 8 for Occupational Exposure Limits.

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Code: L10B-UK Revision No: Revision:

4: FIRST AID MEASURES

Inhalation: Remove from exposure. Assist breathing if required. Seek medical assistance
Skin: Wash thoroughly with soap and water. Remove contaminated clothing.
Eyes: Irrigate immediately with copious quantities of water for several minutes.
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.
Extinguishing Methods Not Used: Do not use forced stream as this could cause fire to spread.
Special Exposure Hazards: Fumes, smoke and carbon monoxide.
Special Protective Equipment: Fire fighting personnel should wear respiratory protection (positive pressure if possible).

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Enclose spill at source if possible without risk. Eliminate sources of ignition. Spill area will present slip hazard / slick
Environmental Precautions: Prevent entry into drains, sewers and water courses.
Decontamination Methods: Soak up with inert absorbent or contain and remove by best available means.

7: HANDLING AND STORAGE

Handling: Precautions: Keep away from flames, sparks or hot surfaces. Never use a torch to cut or weld on or near container. Empty oil containers can contain explosive vapors. Work Practices: Wash thoroughly after handling. To avoid the possibility of skin disorders, repeated or prolonged contact with products of this type must be avoided. Use personal protective equipment to reduce exposure.
Storage: Product should be stored in clean, dry containers at ambient temperatures.
Specific Uses: For use only within specified application – insulating oil within transformers equipment

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)
PCBs	0.1mg/m ³		EH40 (OES)

Engineering Control Measures: Mechanical methods to minimise exposure must take precedence over personal protective measures. Respirator should be used in areas where vapour concentrations are excessive due to high temperatures or where oil misting occurs.
Personal protective Equipment: Avoid skin and eye contact. Safety glasses or face shield where splashing is possible. Wear impervious gloves (e.g. PVC), in case of repeated or prolonged contact. Respirator should be used in areas where vapour concentrations are excessive due to high temperatures or where oil misting occurs.
Environmental exposure controls: Change contaminated clothing immediately and clean before re-use. Adequate ventilation is required where excessive heating or agitation may occur to maintain concentration below exposure limits.
A Chemical Safety Report (CSR) with a summary of the risk management measures that adequately control exposure of the environment to the substance is to be completed upon REACH registration according to Regulation (EC) No 1907/2006

9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Colour:	Clear
Odour:	Mild, paraffinic
pH:	Not applicable
Boiling Point/Range (°C):	> 250
Flash Point (closed °C):	> 130
Autoignition (°C):	> 250
Explosive Properties (%):	Explosive limit range (%): Approximately 0.6 – 10
Oxidising properties:	Non-oxidising
Vapour Pressure (kPa at 20°C):	< 0.1
Relative Density (at 20°C):	< 1.0
Water Solubility:	Insoluble
Fat Solubility:	Not determined
Kinematic Viscosity @ 40 °C (cSt):	16
Pour Point (°C):	< - 30
Vapour Density (Air = 1):	>5
Evaporation Rate:	Not currently available

10: STABILITY AND REACTIVITY

Stability:	Stable, will not polymerise
Conditions to Avoid:	Temperatures (°C) above 90, sources of ignition
Materials to Avoid:	Strong oxidising agents
Hazardous Decomposition Products:	Irritating fumes, combustion gases include toxic gases

11: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on knowledge of the toxicity of the product's components. Expected oral LD₅₀ rat >2g/kg.

Acute Health Effects:

On Eyes:	May cause transient irritation
On Skin:	Unlikely to cause harm on brief or occasional contact. May cause mild irritation with prolonged and repeated exposure.
By Inhalation:	Mist and vapours may cause irritation to nose and respiratory tract
By Ingestion:	May cause nausea, vomiting and diarrhoea
Chronic:	
Sensitisation:	Repeated and prolonged skin contact may lead to skin disorders
CMR effects:	
Carcinogenicity:	Not considered a potential carcinogen based on IP346 DMSO of less than 3.0 wt% for total PACs content, Regulation (EC) 1272/2008, ANNEX VI Table 3.2.
Mutagenicity:	<i>Yet to be determined (future CSR - Regulation (EC) No 1907/2006)</i>
Toxicity for reproduction:	<i>Yet to be determined (future CSR - Regulation (EC) No 1907/2006)</i>

Note: Toxicological assessment will change in future revision upon issuing of a Chemical Safety Assessment (CSA) - Regulation (EC) No 1907/2006 and subsequent registration to ECHA according to the same regulation, plus amendments

12: ECOLOGICAL INFORMATION

Ecotoxicity:	Available data indicate this product is not acutely toxic.
Mobility:	Non-volatile. Mobile liquid. Insoluble in water.
Persistence and Degradability:	Inherently biodegradable.
Bio-accumulative Potential:	Bio-accumulation is unlikely to be significant because of the low solubility of this product.
Results of PBT assessment:	<i>Yet to be determined (future CSR - Regulation (EC) No 1907/2006)</i>
Water:	Not expected to be toxic to aquatic organisms.
Ecotoxicity:	Not expected to be inhibitory to sewage bacteria.
Environmental Assessment:	When used and disposed of as intended, no adverse environmental effects are foreseen.

Note: Ecotoxicological assessment will change in future revision upon issuing of a Chemical Safety Assessment (CSA) - Regulation (EC) No 1907/2006 and subsequent registration to ECHA according to the same regulation, plus amendments

13: DISPOSAL CONSIDERATIONS

Unused product:	May be sent for reclamation.
Used/Contaminated Product:	Used/Contaminated product may be sent for reclamation. Dispose of through an authorised waste contractor to a licensed site. May be incinerated.
Packaging:	Must be disposed of through an authorised waste contractor. May be steam cleaned and recycled.

Disposal must be in accordance with local and national legislation. Waste Oil Directive 87/101/EEC and Framework Waste Directive 91/156/EEC, Incineration of Waste Directive 2000/76/EC all detail community provisions' relating to disposal considerations.

14: TRANSPORT INFORMATION

Land:	ADR (Road) – Not classified RID (Rail) – Not classified
Sea:	IMDG / IMO (Water) – Not classified
Air:	ICAO / IATA (Air) – Not classified

15: REGULATORY INFORMATION

Regulation (EC) No 1907/2006 and Regulation (EC) No 1272/2008 supersede the EC directives listed below relating to the hazard classification and SDS documentation but are currently in transitional period(s). A Chemical Safety Assessment (CSA) according to REACH Regulation (EC) No 1907/2006 has not yet been conducted on this substance. CSA information will be included upon REACH registration within the Chemical Safety Report (CSR), and future revision of SDS document. Future revisions will also include any mandatory changes in classification, labelling and packaging resulting from CLP-Regulation (EC) No 1272/2008

Hazard Label Data:	NONE (NON-HAZARDOUS)
Hazard Statement:	NONE
R-phrases	NONE
S-phrases	NONE

EC Directives:	Dangerous Substances Directive (67/548/EEC) Dangerous Preparation Directive (1999/45/EC) Waste Oil Directive, 87/101/EEC Framework Waste directive, 91/156/EEC
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UK 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].

16: OTHER INFORMATION

Hazard Label Data: NONE (NON-HAZARDOUS)
Hazard Statements: NONE
R-phrases NONE
S-phrases NONE
Training recommendations: Person placing substance on market shall ensure that competent persons have received appropriate training.
Restrictions on use (uses advised against): This product has poor compatibility with certain types of rubber; therefore verify material compatibility before using.

Sources and SDS format references:

REACH EC Regulation No. 1907/2006 and CLP Regulation (EC) 1272/2008
Future revisions will incorporate fully all requirements of CLP Regulation (EC) 1272/2008 which is in a transitional period. It will fully apply to the classification of substances from 1 December 2010, and to the classification of mixtures from 1 June 2015. The complete transitional period will end on 1 June 2015.
Replacing: Dangerous Substances Directive (67/548/EEC) and Dangerous Preparations Directive (1999/45/EC)

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 that should be taken.

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

ANNEX

Chemical Safety Report (CSR) and Exposure Assessment (ES) information presented here where appropriate upon registration according to Regulation (EC) No 1907/2006 – next SDS revision December 2010