

# SAFETY DATA SHEET

## ILS-TF (TRANSFORMER) FLUID - NEW (I) (DG)

Infosafe No.: LQC73  
ISSUED Date : 15/07/2024  
ISSUED by: Industrial Lubricants & Services  
Ltd

### Section 1 - Identification

#### Product Identifier

ILS-TF (TRANSFORMER) FLUID - NEW (I) (DG)

#### Company Name

Industrial Lubricants & Services Ltd

#### Address

PO Box 259 347, Botany, Manukau 2163  
Auckland, NEW ZEALAND

#### Telephone/Fax Number

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0800 10 40 17

#### Email

orders@industlubes.co.nz

#### Recommended uses and any restrictions on use or supply

Insulating Oil for transformer (power & distribution) and switch gear. For specific application advice see appropriate Technical Data Sheet.

### Section 2 - Hazard(s) Identification

#### GHS classification of the substance/mixture

Classified as Hazardous according to the Hazardous Substances (Hazard Classification) Notice 2020, New Zealand.

Classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2020 Transport of Dangerous Goods on Land.

Eye irritation Category 2

Aspiration hazard: Category 1

Hazardous to the aquatic environment acute Category 1

Hazardous to the aquatic environment chronic Category 1

#### Signal Word (s)

DANGER

#### Hazard Statement (s)

H304 May be fatal if swallowed and enters airways

H319 Causes serious eye irritation

H410 Very toxic to aquatic life with long lasting effects

#### Pictogram (s)

Exclamation mark, Health hazard, Environment



#### Precautionary Statement – Prevention

P264 Wash skin thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear eye protection/face protection.

#### Precautionary Statement – Response

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
P331 Do NOT induce vomiting.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P391 Collect spillage.

#### Precautionary Statement – Storage

P405 Store locked up.

#### Precautionary Statement – Disposal

P501 Dispose of contents/container to an approved waste disposal plant.

## Section 3 - Composition and Information on Ingredients

### Chemical Characterization

Liquid

### Information on Composition

All of the oils in this product have been demonstrated to contain less than 3% DMSO extractables by the IP 346 test.

### Ingredients

Name	CAS	Proportion
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	20-100 %
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	0-40 %
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	0-40 %
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	0-20 %
Distillates (petroleum), solvent-refined heavy naphthenic	64741-96-4	0-10 %
Distillates (petroleum), solvent-refined light paraffinic	64741-89-5	0-10 %
2,6-Di-tertiary-butyl-p-cresol	128-37-0	0-<0.4 %
Ingredients determined not to be hazardous.		Balance

## Section 4 - First Aid Measures

### Inhalation

If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop and/or persist seek medical attention.

### Ingestion

Do NOT induce vomiting. Wash out mouth and lips with water. Where vomiting occurs naturally have affected person place head below hip level in order to reduce risk of aspiration. Seek immediate medical attention.

### **Skin**

Wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.

### **Eye**

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. Seek medical attention.

### **First-aid Facilities**

Eyewash, safety shower and normal washroom facilities.

### **Advice to Doctor**

Treat symptomatically.

### **Other Information**

For advice in an emergency, contact a Poisons Information Centre or a doctor at once. (0800 764 766)

## **Section 5 - Firefighting Measures**

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### **Suitable Extinguishing Media**

Carbon dioxide, dry chemical or foam.

### **Unsuitable Extinguishing Media**

Do not use water jet.

### **Hazards from Combustion Products**

Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide, carbon dioxide and oxides of nitrogen.

### **Specific hazards arising from the chemical**

This product will burn if exposed to fire. Heating can cause expansion or decomposition leading to violent rupture of containers.

### **Hazchem Code**

•3Z

### **Decomposition Temperature**

Not available

### **Precautions in connection with fire**

Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers. Fight fire from safe location. This product should be prevented from entering drains and watercourses.

## **Section 6 - Accidental Release Measures**

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### **Emergency Procedures**

Wear appropriate personal protective equipment and clothing to prevent exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel. If possible contain the spill. Place inert absorbent, non-combustible material onto spillage. Use clean non-sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

## **Section 7 - Handling and Storage**

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### **Precautions for Safe Handling**

Avoid inhalation of vapours and mists, and skin or eye contact. Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of mists or vapours in the work atmosphere. Do not use near ignition sources. Do not pressurise, cut, heat or weld containers as they may contain hazardous residues. Maintain high standards of personal hygiene by washing hands prior to eating, drinking, smoking or using toilet facilities.

### **Conditions for safe storage, including any incompatibilities**

Store in a cool, dry, well-ventilated area away from sources of ignition, oxidising agents, strong acids, foodstuffs, and clothing. Keep containers closed when not in use, securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static

electricity discharges. Use proper grounding procedures. Ensure that storage conditions comply with applicable local and national regulations.

For information on the design of the storeroom, reference should be made to Australian Standard AS1940 (2017)- The storage and handling of flammable and combustible liquids.

## Section 8 - Exposure Controls and Personal Protection

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### Occupational Exposure Limits (OEL)

No exposure standards have been established for this material. However, the available exposure limits for ingredients are listed below:

Oil mist, mineral

TWA: 5 mg/m<sup>3</sup>

STEL: 10 mg/m<sup>3</sup>

2,6-di-tertiary-butyl-para-cresol

TWA: 10 mg/m<sup>3</sup>

Note: dsen

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

dsen: dermal sensitiser

Source: Workplace Exposure Standards and Biological Exposure Indices.

### Biological Limit Values

No biological limit allocated.

### Appropriate Engineering Controls

This substance is hazardous and should be used with a local exhaust ventilation system, drawing vapours away from workers' breathing zone. A flame-proof exhaust ventilation system is required. If the engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn. Refer to relevant regulations for further information concerning ventilation requirements.

### Respiratory Protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements.

Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

### Eye Protection

Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations.

Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 (series) - Eye Protectors for Industrial Applications.

### Hand Protection

Wear gloves of impervious material such as nitrile rubber. Final choice of appropriate gloves will vary according to individual circumstances. i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations.

Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

### Thermal Hazards

No further relevant information available.

### Body Protection

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

## Section 9 - Physical and Chemical Properties

Properties	Description	Properties	Description
Form	Liquid	Appearance	Water white liquid
Colour	Water white	Odour	Mild
Decomposition Temperature	Not available	Melting Point	Not available
Boiling Point	>296°C	Solubility in Water	Negligible
Specific Gravity	0.884 (15°C) 0.881 (20°C)	pH	Not available
Vapour Pressure	Not applicable	Vapour Density (Air=1)	Not available
Evaporation Rate	Not available	Odour Threshold	Not available
Viscosity	10.0 mm <sup>2</sup> /s (10.0 cSt) at 40°C, 2.51 mm <sup>2</sup> /s (2.51 cSt) at 100°C	Partition Coefficient: n-octanol/water	Not available
Flash Point	>147°C (Pensky Martens Closed cup)	Flammability	Not flammable
Auto-Ignition Temperature	315°C	Flammable Limits - Lower	0.9% (volume)
Flammable Limits - Upper	7.0% (volume)	Particle Characteristics	Not applicable

## Section 10 - Stability and Reactivity

### Chemical Stability

Stable under normal conditions of storage and handling.

### Reactivity and Stability

Stable under normal conditions of storage and handling.

### Conditions to Avoid

Heat, open flames and other sources of ignition.

### Incompatible Materials

Strong oxidising agents.

### Hazardous Decomposition Products

Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide, carbon dioxide and oxides of nitrogen.

### Possibility of hazardous reactions

Not available

### Hazardous Polymerization

Not available

## Section 11 - Toxicological Information

### Toxicology Information

No toxicity data available for this product.

### Ingestion

May be fatal if swallowed and enters airways. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause severe pulmonary injury that may lead to death. May cause irritation to the mouth, throat, esophagus and stomach with symptoms of nausea, abdominal discomfort, vomiting and diarrhoea.

### **Inhalation**

Inhalation of product vapours may cause irritation of the nose, throat and respiratory system. Vapour inhalation under ambient conditions is not normally a problem due to low vapour pressure.

### **Skin**

May be irritating to skin. The symptoms may include redness, itching and swelling. Prolonged or repeated skin contact may cause defatting and cracking leading to dermatitis.

### **Eye**

Causes serious eye irritation. On eye contact this product will cause tearing, stinging, blurred vision, and redness.

### **Respiratory Sensitisation**

Not expected to be a respiratory sensitiser.

### **Skin Sensitisation**

Not expected to be a skin sensitiser.

### **Germ Cell Mutagenicity**

Not considered to be a mutagenic hazard.

### **Carcinogenicity**

Not considered to be a carcinogenic hazard.

Mineral oils, highly-refined and 2,6-di-tertiary-butyl-para-cresol are listed as Group 3: Not classifiable as to carcinogenicity to humans according to International Agency for Research on Cancer (IARC).

### **Reproductive Toxicity**

Not considered to be toxic to reproduction.

### **STOT - Single Exposure**

Not expected to cause toxicity to a specific target organ.

### **STOT - Repeated Exposure**

Not expected to cause toxicity to a specific target organ.

### **Aspiration Hazard**

May be fatal if swallowed and enters airways.

## **Section 12 - Ecological Information**

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### **Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

### **Persistence and degradability**

Not available

### **Mobility**

Spillages may penetrate the soil causing ground water contamination.

### **Bioaccumulative Potential**

Not available

### **Other Adverse Effects**

Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

### **Environmental Protection**

Do not discharge this material into waterways, drains and sewers.

### **Hazardous to the Ozone Layer**

This product is not expected to deplete the ozone layer.

## **Section 13 - Disposal Considerations**

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### **Disposal Considerations**

Product Disposal:

Product wastes are controlled wastes and should be disposed of in accordance with all applicable local and national regulations. This product can be disposed through a licensed commercial waste collection service. In this specific case the product is a combustible substance and therefore can be sent to an approved high temperature incineration plant for disposal.

Personal protective clothing and equipment as specified in Section 8 of this SDS must be worn during handling and disposal of this

product. The ventilation requirements as specified in the same section must also be followed, and the precautions given in Section 7 of this SDS regarding handling must also be followed.

Do not dispose into the sewerage system. Do not discharge into drains or watercourses or dispose where ground or surface waters may be affected.

In New Zealand, the disposal agency or contractor must comply with the New Zealand Hazardous Substances (Disposal) Notice 2017. Further details regarding disposal can be obtained on the EPA New Zealand website under specific group standards.

#### Container Disposal:

The container or packaging must be cleaned and rendered incapable of holding any substance. It can then be disposed of in a manner consistent with that of the substance it contained. In this instance the packaging can be disposed through a commercial waste collection service.

Alternatively, the container or packaging can be recycled if the hazardous residues have been thoroughly cleaned or rendered non-hazardous.

In New Zealand, the packaging (that may or may not hold any residual substance) that is lawfully disposed of by householders or other consumers through a public or commercial waste collection service is a means of compliance with regulations.

#### Other Information

Used oil contaminated with PCBs requires expert handling and disposal to avoid serious pollution. If it is suspected that oil is contaminated with PCBs it should be kept separate from, and never mixed with other waste oils. Contact the Local Authority for disposal advice.

## Section 14 - Transport Information

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### Transport Information

#### Road and Rail Transport:

This material is classified as a Class 9 - Miscellaneous Substances according to NZS 5433:2020 Transport of Dangerous Goods on Land.

Must not be loaded in the same freight container or on the same vehicle with:

- Class 1, Explosives

Class 9 dangerous goods that contain organic matter must not be loaded in the same bulk container or tankwagon with dangerous goods of Division 5.1 unless the Class 9 and Division 5.1 dangerous goods are in separate compartments of a bulk container or tankwagon.

Goods of packing group II or III may be loaded in the same freight container or on the same vehicle if transported in segregation devices. Segregation devices may be used to segregate Dangerous goods of Class 9 when the nature of those dangerous goods requires them to be segregated from dangerous goods of Class 3, 4, 5, 6 or 8 or from food items.

#### Marine Transport (IMO/IMDG):

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

UN No.: 3082

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains Distillates, petroleum, hydrotreated light naphthenic) MARINE POLLUTANT

DG Class: 9

Packaging Group: III

EMS No.: F-A, S-F

Special provisions: 274, 335, 969

#### Air Transport (ICAO/IATA):

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

UN No: 3082

Proper Shipping Name: : Environmentally hazardous substance, liquid, n.o.s. (Contains Distillates, petroleum, hydrotreated light naphthenic)

Class: 9

Packing Group: III

Label: Miscellaneous

Packing Instruction: 964 (For passenger and cargo aircraft)

Packing Instruction: 964 (For cargo aircraft only)

Special provisions: A97, A158, A197, A215

**UN Number**

3082

**Proper Shipping Name**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Contains Distillates, petroleum, hydrotreated light naphthenic)

**Hazard Class**

9

**Hazchem Code**

•3Z

**Special Precautions for User**

Not available

**Packing Group**

III

**IERG Number**

47

**IMDG Marine pollutant**

Yes

**Transport in Bulk**

Not available

## Section 15 - Regulatory Information

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**Regulatory Information**

Classified as Hazardous according to the Hazardous Substances (Hazard Classification) Notice 2020, New Zealand.  
Group Standard: Lubricants, Lubricant Additives, Coolants and Anti-freeze Agents (Subsidiary Hazard) Group Standard 2020.

**HSNO Approval Number**

HSR002606

**Tolerable exposure limit (TEL)**

Not available

**Environmental exposure limit (EEL)**

Not available

**Certified Handler**

Not available

**Tracking**

Not available

**Controlled Substance Licence Requirements**

Not available

**Montreal Protocol**

Not listed

**Stockholm Convention**

Not listed

**Rotterdam Convention**

Not listed

**Agricultural Compounds, including Veterinary Medicines (ACVM)**

Not available

## Section 16 - Any Other Relevant Information

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**Date of preparation or last revision of SDS**

SDS created: July 2024



## Literature References

Hazardous Substances and New Organisms Act (1996).  
Health and Safety at Work (Hazardous Substances) Regulations {2017}.  
Workplace Exposure Standards and Biological Exposure Indices.  
Agricultural Compounds and Veterinary Medicines Act (1997).  
Montreal Protocol on Substances that Deplete the Ozone Layer.  
Stockholm Convention on Persistent Organic Pollutants (POPs).  
Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade.  
Transport of Dangerous goods on land NZS 5433.  
Recommendations on the Transport of Dangerous Goods - Model Regulations.  
Dangerous Goods Emergency Action Code List.  
Hazardous Substances (Safety Data Sheets) Notice (2017). (EPA Consolidation)  
Assigning a hazardous substance to a group standard.  
Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH).

## END OF SDS

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