



SAFETY DATA SHEET

ILS TF (TRANSFORMER) FLUID (I)

Issued Date: 17/04/20

Issued by: Industrial Lubricants & Services Ltd

1. IDENTIFICATION

GHS Product Identifier

ILS TF (TRANSFORMER) FLUID (I)

Company Name

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Recommended use of the chemical and restrictions on use

Electrical Insulating Oil

2. HAZARD IDENTIFICATION

GHS classification of the substance/mixture

Classification: Class 9

Miscellaneous Dangerous Goods UN3082 Hazchem

3Z Eco Toxic

- Primary Entry Routes: Skin
- Inhalation: Inhalation of vapours or mist may be irritating to respiratory passages. Target Organ for mineral oil mist is lungs. Prolonged exposure may result in dizziness and nausea.
- Skin: Short term contact with skin is unlikely to cause any problems; excessive or prolonged and repeated contact and poor hygiene conditions may result in dryness, dermatitis, erythema, oil acne, cracking and defatting of the skin.
- Eye: Eye contact may result in slight irritation and redness.
- Ingestion: May result in nausea or stomach discomfort.
- Carcinogenicity: Based on OSHA 1910.1200 and IARC study requirements, this product does not require labeling.
- Meets EU requirement of less than 3% (w/w) DMSO extract for total polycyclic aromatic compound (PAC) using IP 346.

Other Effects

- Medical Conditions Aggravated by Long-Term Exposure: Personnel with preexisting skin disorders should avoid contact with this product.
- Eco Toxic Pollutant - to fish and plants.
- Hazardous Classification 3Z UN 3082

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture Mixture

Ingredients

Name	CAS	Proportion
Solvent-refined light naphthenic distillate	64742-53-6	99.61%
2,6-di-tert-butyl-p-cresol	128-37-0	0.39%

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

4. FIRST AID MEASURES

Inhalation

If inhaled, remove to fresh air. Get medical attention if symptoms occur.

Ingestion

Do not induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately.

Skin

Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.

Eye contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Check for and remove any contact lenses. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention.

First Aid Facilities

Eye wash, safety shower and normal washroom facilities.

Advice to Doctor

If there is any suspicion of aspiration into the lungs obtain medical advice.

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Other Information

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

5. FIRE-FIGHTING MEASURES

- **Extinguishing Media:** Halon, dry chemical, foam, CO2 and water mist or fog. Water may be used to cool below flash point.
- **Extinguishing Methods Not Used:** Do not use forced stream as this could cause fire to spread.

- **Exposure Hazard (Combustion Products):** Fumes, smoke and carbon monoxide.
- **Fire-Fighting Equipment:** Fire fighting personnel should wear respiratory protection (positive pressure if available).
- **Fire-Fighting Instructions:** Use water to cool containers exposed to flames. Do not enter enclosed or a confined workspace without proper protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Procedure: Report spills/releases as required to appropriate authorities Methods for cleaning up

- **LAND SPILL:** Shut off source taking normal safety precautions. Take measures to minimize the effects on ground water. Recover by pumping using explosion proof equipment or contain spilled liquid with sand or other suitable absorbent and remove mechanically into containers. If necessary, dispose of absorbed residues as directed in Section 13.
- **WATER SPILL:** Notify port and relevant authorities. Confine with booms if skimming equipment is available to recover the spill for later recycling or disposal.
- Environmental precautions: Prevent spill from entering municipal sewers, water sources or low lying areas. Advise the relevant authorities if contaminations have occurred.

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 vapours. Wash thoroughly after handling.

Work / Hygienic Practices:

- Wash hands with soap and water before eating, drinking, smoking or use of toilet facilities.

Do not use gasoline, solvents, kerosene, or harsh abrasive skin cleaners for washing exposed skin areas. Remove oil-soaked clothing and launder before reuse. Discard contaminated shoes and leather gloves.

Storage:

- Product should be stored in clean, dry containers at ambient temperatures and it should remain stable with exception of slight colour stability loss unless it is contaminated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values

CAS-No.	Source	TWA	Value	Notations
64742-53-6	ACGIH TLV	LTEL STEL	5 mg/m ³ 10 mg/m ³	Oil mists

LTEL: Long Term Exposure Limits - Time Weight Average (TWA) over 8 hours.

STEL: Short Term Exposure Limits - Time Weight Average (TWA) over 15 Minutes

Exposure Controls:

Occupational Exposure Controls:

- **Respiratory Protection:** Not Normally Needed. Respirator should be used in areas where vapour concentrations are excessive due to high temperatures or where oil misting occurs.
- **Eye / Face Protection:** Safety glasses or face shield where splashing is possible.
- **Skin Protection:** As needed to prevent repeated skin contact. Solvent resistant gloves should be used if needed.
- **Respiratory Protection:** Not Normally Needed. Respirator should be used in areas where vapour

concentrations are excessive due to high temperatures or where oil misting occurs.

Environmental Exposure Controls:

· Adequate ventilation is required where excessive heating or agitation may occur to maintain concentration below exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Properties	Description	Properties	Description
Form	Liquid	Appearance	Amber
Odour	Mild	Solubility	Negligible
Boiling Point	> 260 °C	Flash Point	> 152 °C (ASTM D-93)
Vapour Pressure	< 0.1 hPa	Pour Point	-31 °C
Upper Explosion Limit (UEL)	7 %(V)	Lower Explosion Limit (LEL)	0.9 %(V)
Density	0.879 g/cm ³ @ 20 °C (ASTM D-4052)	Viscosity	12 mm ² /s @ 40 °C (ASTM D-445)

10. STABILITY AND REACTIVITY

Chemical Stability

Stable under normal conditions of storage and handling.

Conditions to Avoid

Avoid excessive heat.

Incompatible materials

Reactive or incompatible with the following materials: oxidising materials.

Hazardous Decomposition Products

Fumes, smoke, carbon monoxide, and other decomposition products in the case of incomplete combustion.

11. TOXICOLOGICAL INFORMATION

Acute Effects:

- **Acute Oral Toxicity:** Tests on similar materials show a low order of acute oral toxicity. (LD50: Greater than 2000 mg/kg).
- **Acute Inhalation Toxicity:** Low acute toxicity expected on inhalation.
- **Skin Toxicity:** Practically non-toxic if absorbed. (LD50: greater than 5000 mg/kg)
- **Eye Irritation:** Minimal irritation on contact. Eye irritation slight or practically nonirritating based on similar products
- **Skin Irritation:** May cause mild irritation with prolonged and repeated exposure.

Sensitization:

- **Skin Sensitization:** Skin sensitization is indicated as non-sensitizing based on data from similar products

CMR Properties:

- **Carcinogenicity:** Not considered a potential carcinogen based on IP346 DMSO of less than 3.0 wt%.
- **Mutagenicity:** This product is considered non-mutagenic and has negative potential for tumour development based on results from Modified Ames Assay, with Mutagenic Index of less than 1.0.

Similar products have not been listed in NTP reports, and are classified by IARC as having inadequate evidence of carcinogenicity. IARC indicates that based on preponderance of data highly refined mineral oils are not mutagenic either in vitro or in vivo. Severely hydrotreated naphthenic petroleum oils have not been found to be carcinogenic or potential carcinogens

12. ECOLOGICAL INFORMATION

Ecotoxicity

Available data indicate this product is not acutely toxic. 96 hr. acute static toxicity for Pimephales promelas (Fathead Minnow) LC50 mortality is greater than 30,000 mg/L. Other similar products have shown 48 hr EL50 for Daphniamagna greater than 1000 mg/L, and 96 hr IrL50 for Scenedesmus subspicatus (Alga) greater than 1000 mg/L.

Persistence and degradability

This product reaches less than 10% biodegradation in standard 28-day test and is not readily biodegradable in the environment.

Aquatic Release

Advise authorities if product has entered or may enter watercourses or sewer drains.


13. DISPOSAL CONSIDERATIONS

Disposal considerations

The product is suitable for processing by an approved recycling facility. Method is subject to user compliance with applicable laws and regulations and considerations of product characteristics at time of disposal.

14. TRANSPORT INFORMATION

Classified as Dangerous Goods for all transport December 1 2017

Regulatory information	UN number	Proper shipping name	Classes	Packing Group	Label	Additional information
New Zealand Class	UN 3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Transformer Oil, Eco toxic, Miscellaneous Dangerous Goods Class 9 · Sea IMDG / IMO (water) -Air ICAO / IATA(Air)	9	III		3Z

15. REGULATORY INFORMATION

HSNO Approval Number

HSR002605

HSNO Group Standard

Metal Industry Product (Subsidiary Hazard). Refer to Section 2 for classifications and to www.ermanz.govt.nz for controls and conditions.

HSNO Classification

9.1 - AQUATIC ECOTOXICITY - Category A

16. OTHER INFORMATION

Note: Product does not contain PCBs.

FIRST AID: Wash skin with soap and water. Flush eyes with water. If overcome by fumes or vapour, remove to fresh air. If ingested do not induce vomiting. If symptoms persist seek medical attention. Read and understand the MSDS before using this product.

INJECTION INJURY WARNING: If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a doctor as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

SAFETY: Under normal conditions of intended use, this product does not pose a risk to health. Excessive exposure may result in eye, skin or respiratory irritation. Always observe good hygiene measures.

Date of preparation or last revision of SDS

SOS reviewed: April 2020

Supersedes: August 2019

Notice to reader

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from ILS LTD

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END OF SDS