



INDUSTRIAL  
LUBRICANTS &  
SERVICES LIMITED

# ILS-SF GREASE 4600

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9 pages

## IDENTIFICATION (section 1)

<b><u>Product Identifier</u></b>	ILS-SF GREASE 4600
<b><u>Company Name</u></b>	Industrial Lubricants & Services Ltd
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<b><u>Telephone</u></b> Tel: 0800 10 40 11	<b><u>ILS Technical Helpline</u></b> 0800 10 40 17
<b><u>Emergency phone number</u></b> <b>New Zealand National Poison Centre</b>	0800 764 766

### **Recommended use of the chemical and restrictions on use**

Lubricating Grease

## HAZARD IDENTIFICATION (section 2)

### **GHS/HSNO classification of the substance/mixture**

Not Classified

This material is not classified as Hazardous, in accordance with Hazardous Substances (Safety Data Sheets) Notice 2017 and the Regulation (EC) 1272/2008 [CLP].

This material is not classified as DANGEROUS GOODS according to criteria in New Zealand Standard 5433:2020 Transport of Dangerous Goods on Land and Regulation (EC) 1272/2008 [CLP].

### **GHS Label elements, including precautionary statements**

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

#### **EU Specific Hazard Statements**

**EUH210** - Safety data sheet available on request

**EUH208** - Contains (Bismuth Naphthenate). May produce an allergic reaction.

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

This product does not contain any known or suspected endocrine disruptors.

## COMPOSITION / INFORMATION ON INGREDIENTS (section 3)

**Substance/mixture** Mixture  
**Chemical characterization** This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

Chemical name	Weight-%	REACH registration number	CAS No.	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Bismuth Naphthenate	2.5-5	01-2120769500-56	85736-59-0	288-470-5	Skin Sens. 1 (H317) Eye Irrit. 2 (H319)	-	-	-
Dilithium azelate	<1.3	01-2120119814-57	38900-29-7	254-184-4	Acute Tox. 4 (H302)	-	-	-
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	<1	01-2119491299-23	68411-46-1	270-128-1	Repr. 2 (H361f) Aquatic Chronic 3 (H412)	-	-	-

**Ingredient comments** This product is a lithium complex grease based on polyalphaolefin with additives.

Full text of H- and EUH-phrases: see section 16.

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene 68411-46-1	5000	2000	No data available	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## FIRST AID MEASURES (section 4)

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

**Inhalation** Move to fresh air in case of accidental inhalation of vapours.

**Ingestion** Rinse mouth. Do not induce vomiting without medical advice. Get medical attention if symptoms occur.

**Skin** Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor.

<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.
<b>Most important symptoms /effects, acute and delayed</b>	See Section 11 for more detailed information on health effects and symptoms.

### **Indication of immediate medical attention and special treatment needed, if necessary**

<b>Notes to physician</b>	Treatment should in general be symptomatic and directed to relieving any effects.
<b>Specific treatments</b>	No specific treatment.
<b>Protection of first-aiders</b>	No action shall be taken involving any personal risk or without suitable training.

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

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## **FIRE-FIGHTING MEASURES (section 5)**

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### **Extinguishing media**

<b>Suitable</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. CO <sub>2</sub> , dry chemical, dry sand, alcohol-resistant foam.
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**CAUTION: Use of water spray when fighting fire may be inefficient.**

<b>Not suitable</b>	Do not use a solid water stream as it may scatter and spread fire.
<b>Specific hazards arising from the chemical</b>	Fire may produce irritating, corrosive and/or toxic gases.
<b>Special precautions for fire- fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

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## **ACCIDENTAL RELEASE MEASURES (section 6)**

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### **Personal precautions, protective equipment, and emergency procedures**

#### **For non-emergency personnel**

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapour or mist. Provide adequate ventilation. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling. Contact emergency personnel.

**For emergency responders**

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions**

See Section 12 for additional Ecological Information.

**Methods and material for containment and cleaning up****Methods for containment**

Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**

Take up with sand or other non-combustible absorbent material and place into containers for later disposal.

**Prevention of secondary hazards**

Clean contaminated objects and areas thoroughly observing environmental regulations.

See section 8 for more information. See section 13 for more information.

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**HANDLING AND STORAGE (section 7)**

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**Precautions for Safe Handling****Protective measures**

Ensure adequate ventilation. Avoid contact with eyes and prolonged or repeated contact with skin. Put on appropriate personal protective equipment (see Section 8). Wash thoroughly after handling. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Remove contaminated clothing and protective equipment before entering eating areas. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

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

Keep container tightly closed in a dry and well-ventilated place. Store at temperatures not exceeding 45 °C/ 113 °F.

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**EXPOSURE CONTROLS / PERSONAL PROTECTION (section 8)**

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**Exposure limits**

Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Dilithium azelate 38900-29-7	-	-	TWA: 0.2 mg/m <sup>3</sup>	-	-

**Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

**Appropriate engineering controls**

Eyewash stations. Ventilation systems.

**Environmental exposure controls**

Prevent product from entering drains.

## Individual protection measures

### Hand protection

Wear suitable gloves tested to EN 374. Nitrile rubber. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves.

### Eye/face protection

No special protective equipment required. If splashes are likely to occur, wear safety glasses with side-shields.

### Skin & Body protection

No special protective equipment required.

### Respiratory protection

None under normal use conditions. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

## PHYSICAL AND CHEMICAL PROPERTIES (section 9)

Physical state	Paste / Gel Liquid
Appearance	Semi-solid
Colour	yellow
Odour	No information available
Odour threshold	No information available

Property	Values	Method / Remarks
Melting point / freezing point		Not applicable
Initial boiling point and boiling range		Not applicable
Flammability		No information available
Flammability Limit in Air		No information available
Upper flammability or explosive limits	No data available	No information available
Lower flammability or explosive limits	No data available	No information available
Flash point	150 °C / > 302 °F	Based on base oils
Autoignition temperature		Not applicable
Decomposition temperature		No information available
pH		Not applicable
pH (as aqueous solution)		No information available
Kinematic viscosity	>20.5 mm <sup>2</sup> /s	@ 40 °C
Dynamic viscosity	No data available	No information available
Water solubility Solubility(ies)	Insoluble in water	
Partition coefficient	No data available	Not applicable
Vapour pressure		Not applicable
Relative density		No information available
Bulk density	No data available	
Liquid Density	< 1000 kg/m <sup>3</sup> @ 25 °C / 77 °F	
Relative vapour density	No data available	Not applicable
Particle characteristics		Not applicable
Particle Size	No information available	
Particle Size Distribution	No information available	
VOC content		Not applicable
Explosive properties		None under normal use conditions
Oxidising properties		No information available
Evaporation rate		No information available

## STABILITY AND REACTIVITY (section 10)

**Chemical stability**

Stable under normal conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Hazardous polymerisation**

Hazardous polymerisation does not occur.

**Conditions to Avoid**

Excessive heat. Avoid all possible sources of ignition (spark or flame).

**Incompatible materials**

Strong oxidising agents.

**Hazardous Decomposition Products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**Explosion Data**

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

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## **TOXICOLOGICAL INFORMATION (section 11)**

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Product does not present an acute toxicity hazard based on known or supplied information.

**Information on likely routes of exposure**

<b>Inhalation</b>	Not an expected route of exposure. Specific test data for the substance or mixture is not available.
<b>Ingestion</b>	No known hazard by swallowing. May cause gastrointestinal discomfort if consumed in large amounts.
<b>Skin contact</b>	Non-irritating during normal use. Prolonged or repeated contact may dry skin and cause irritation.
<b>Eye contact</b>	Not expected to cause eye irritation.

**Symptoms related to the physical, chemical and toxicological characteristics**

<b>Inhalation</b>	No information available
<b>Ingestion</b>	No information available
<b>Skin contact</b>	No information available
<b>Eye contact</b>	No information available

**Acute toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	4.463,20 mg/kg
ATEmix (dermal)	2.085,30 mg/kg

**Unknown acute toxicity**

0 % of the mixture consists of ingredient(s) of unknown acute toxicity.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Dilithium azelate	> 300 mg/kg	> 2000 mg/kg	-
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	-

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

### Skin corrosion/irritation

Based on available data, the classification criteria are not met.

### Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

### Respiratory or skin sensitisation

Data obtained on this product or a similar product.

Product Information	
Method	OECD Test No. 429: Skin Sensitization
Species	Mouse
Exposure route	Dermal
Results	Not a skin sensitiser

### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

### Carcinogenicity

Based on available data, the classification criteria are not met.

### Reproductive toxicity

Based on available data, the classification criteria are not met.

### STOT - single exposure

Based on available data, the classification criteria are not met.

### STOT - repeated exposure

Based on available data, the classification criteria are not met.

### Aspiration hazard

Based on available data, the classification criteria are not met.

### Endocrine disrupting properties

This product does not contain any known or suspected endocrine disruptors.

### Other adverse effects

No information available.

## ECOLOGICAL INFORMATION (section 12)

### Ecotoxicity

Not considered to be harmful to aquatic life. Contains 0 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	-	LC50: >100mg/L (96h, Danio rerio)	-	-

### Persistence and degradability

Not readily biodegradable.

### Bioaccumulative potential

There is no data for this product.

### Mobility in soil

#### Soil/water partition coefficient (KOC)

After release, adsorbs onto soil.

#### Mobility

Insoluble in water.

### Component Information

Chemical name	Partition coefficient
Dilithium azelate	-3.3

### PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
Bismuth Naphthenate	The substance is not PBT / vPvB
Dilithium azelate	The substance is not PBT / vPvB
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	The substance is not PBT / vPvB

### Endocrine disrupting properties

This product does not contain any known or suspected endocrine disruptors.



Other adverse effects

No information available.

## DISPOSAL CONSIDERATIONS (section 13)

### Disposal Methods

The generation of waste should be avoided or minimised wherever possible.

Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

#### NOTE: Used oils from refrigerant compressors

Used oil contaminated with refrigerant gas may possess hazards which require particular handling, storage and disposal precautions. It is recommended that the safety data sheet for the refrigerant gas concerned is consulted.

## TRANSPORT INFORMATION (section 14)

**NOT Classified as Dangerous Goods for transport** according to the New Zealand Standard NZS 5433:2020 Transport of Dangerous Goods on Land.

Road & Rail Transport		Marine Transport		Air Transport	
UN No.	Not regulated	UN No.	Not regulated	UN No.	Not regulated
Proper Shipping Name	-	Proper Shipping Name	-	Proper Shipping Name	-
DG Class	-	DG Class	-	DG Class	-
Sub Risk	-	Sub Risk	-	Sub Risk	-
Pack Group	-	Pack Group	-	Pack Group	-
Hazchem	-	Hazchem	-	Hazchem	-

## REGULATORY INFORMATION (section 15)

### New Zealand Regulatory Information

HSNO Approval Number None assigned.

HSNO Group Standard None assigned.

HSNO Classification None assigned.

Water hazard class (WGK) slightly hazardous to water (WGK 1)

### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

### Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV). This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

### Persistent Organic Pollutants

Not Applicable



**Export Notification requirements**

Not Applicable

**Dangerous substance category per Seveso Directive (2012/18/EU)**

Non-controlled.

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not Applicable

**International Inventories**

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
REACH	Complies
ENCS	-
IECSC	-
KECI	-
PICCS	-
AIIC	Complies
NZIoC	Complies
TSCI	Complies

**Legend:**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

REACH - Registration, Evaluation, Authorization, and Restriction of Chemicals Regulation (EC 1907/2006)

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

NZIoC - New Zealand Inventory of Chemicals

TSCI - Taiwan Chemical Substance Inventory

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**OTHER INFORMATION (section 16)**

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**Full text of H-Statements referred to under section 3**

H302 - Harmful if swallowed

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H361f - Suspected of damaging fertility

H412 - Harmful to aquatic life with long lasting effects

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

SDS created: 26 April 2024

**END OF SDS**

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