INDUSTRIAL LUBRICANTS & SERVICES LIMITED

SAFETY DATA SHEET

ILS PL 450

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9 pages

SECTION 1. IDENTIFICATION

Product Identifier ILS PL 450

Company Name Industrial Lubricants & Services Ltd

Address PO Box 259 347,
Botany, Manukau 2163
Auckland, New Zealand

Telephone
Tel: 0800 10 40 11

ILS Technical Helpline
0800 10 40 17

Emergency phone number
New Zealand National Poison Centre 0800 764 766

Recommended use of the chemical and restrictions on use
Base oil. As a component in lubricating or related products.

SECTION 2. HAZARD IDENTIFICATION

GHS 7/HSNO classification of the substance/mixture

This material is classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification) Notice 2020.

Signal Word

Warning

Hazard Classifications
Acute Toxicity - Inhalation - Category 4
Skin Corrosion/Irritation - Category 2
Reproductive Toxicity - Category 2

Hazard Statements
H315 Causes skin irritation.
H332 Harmful if inhaled.
H361 Suspected of damaging fertility or the unborn child.

Prevention Precautionary Statements
P102 Keep out of reach of children.
P103 Read carefully and follow all instructions.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust, fume, gas, mist, vapours or spray.
P264 Wash hands, face and all exposed skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing including eye/face protection.

Response Precautionary Statements
P101 If medical advice is needed, have product container or label at hand.
P302+P352 IF ON SKIN: Wash with plenty of water and soap.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER/doctor if you feel unwell.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse

Storage Precautionary Statement
P405 Store locked up.

Poison Schedule
S5. Caution

Dangerous Good Classification
Not classified as Dangerous Goods by the criteria of the "New Zealand NZS 5433:2020 Transport of Dangerous Goods on Land".

Classified as a C2 (COMBUSTIBLE LIQUID) for the purpose of storage and handling, in accordance with the requirements of AS 1940. Refer to State Regulations for storage and transport requirements.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/mixture
Mixture

Ingredient name	%	CAS number
Residual oils, petroleum, solvent, refined	100	64742-01-4
Ingredients determined to be Non-Hazardous	Balance	

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.

SECTION 4. FIRST AID MEASURES

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

Inhalation

Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If breathing laboured and patient cyanotic (blue), ensure airways are clear and have a qualified person give oxygen through a facemask. If breathing has stopped apply artificial respiration at once. In the event of cardiac arrest, apply external cardiac massage. Seek immediate medical advice.

Ingestion

Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

Skin

If skin or hair contact occurs, immediately remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a Doctor; or for 15 minutes and transport to Doctor or Hospital.

Eye contact

If in eyes wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

First Aid Facilities

Eye wash, safety shower and normal washroom facilities.

Advice to Doctor

Treat symptomatically.

For advice in an emergency, contact NZ Poison Centre or a doctor at once (0800 764 766)

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable

If material is involved in a fire use water fog (or if unavailable fine water spray), alcohol resistant foam, standard foam, dry agent (carbon dioxide, dry

	chemical powder).
Not suitable	Do not use water jet.
Hazardous combustion products	Combustible liquid.
Hazchem code	Not available.
Special precautions for fire- fighters	On burning or decomposing may emit toxic fumes. Fire fighters to wear selfcontained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion or decomposition.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Small Spills:
Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours or dust. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.

Large Spills:
Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling
Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols.

Conditions for safe storage, including any incompatibilities
Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat and/or ignition. Store locked up. Keep container standing upright. Keep containers closed when not in use - check regularly for leaks.
Classified as a C2 (COMBUSTIBLE LIQUID) for the purpose of storage and handling, in accordance with the requirements of AS 1940. Refer to State Regulations for storage and transport requirements.
This material is a Scheduled Poison Schedule 5 (Caution) and must be stored, maintained and used in accordance with the relevant regulations.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits

Ingredient name	Exposure limits
Oil mist, refined mineral: (CAS No 64742-01-4)	TWA: 5 mg/m³ / 8 hours

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

Appropriate engineering controls

Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well ventilated areas. Use with local exhaust ventilation or while wearing appropriate respirator. Vapour heavier than air - prevent concentration in hollows or sumps. Do NOT enter confined spaces where vapour may have collected.

Individual protection measures

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

Wear safety shoes, overalls, gloves, safety glasses, respirator. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Hygiene measures

Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state	Liquid	**Flash point**	>315°C (Closed Cup)
Colour	Yellow to Brown	**Vapour pressure**	<0.01 mmHg @ 20 °C
Odour	Neutral	**Relative Vapour density**	>5
pH	Not Applicable	**Solubility**	Negligible
Flammability Limits (%):	0.900 - 0.901 (V)	**Melting**	Not Available

		Point/Range (°C)	
Auto ignition temperature (°C)	>335	**Pour Point/Range (°C)**	-9
Boiling Point/Range (°C)	Not Available	**Viscosity @ 100°C**	31.5 cSt
Total VOC (g/Litre)	Not Available	**Molecular Weight**	690

SECTION 10. STABILITY AND REACTIVITY

Chemical stability

Stable under normal conditions of use.

Conditions to Avoid

Elevated temperatures and sources of ignition.

Incompatible materials

Incompatible with Oxidizing agents

Hazardous Decomposition Products

Oxides of carbon and nitrogen, smoke and other toxic fumes.

Possibility of hazardous reactions

No known hazardous reactions.

SECTION 11. TOXICOLOGICAL INFORMATION

Symptoms related to the physical, chemical and toxicological characteristics

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

ACUTE EFFECTS

Inhalation Harmful if inhaled. Material may be an irritant to mucous membranes and respiratory tract.

Ingestion Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

Skin contact Contact with skin may result in irritation.

Eye contact May be an eye irritant.

ACUTE TOXICITY

Inhalation This material has been classified as a Category 4 Hazard. Acute toxicity estimate (based on ingredients): 10.0 < LC50 ≤ 20.0 mg/L for vapours or 1.0 < LC50 ≤ 5.0 mg/L for dust and mist.

Ingestion This material has been classified as not hazardous for acute ingestion exposure. Acute toxicity estimate (based on ingredients): LD50 > 2,000 mg/Kg bw

Skin contact This material has been classified as not hazardous for acute dermal exposure. Acute toxicity estimate (based on ingredients): LD50 > 2,000

mg/Kg bw

Corrosion/Irritancy Eye: this material has been classified as not corrosive or irritating to eyes. Skin: this material has been classified as a Category 2 Hazard (reversible effects to skin).

Sensitisation Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as not a skin sensitiser.

Aspiration hazard This material has been classified as not an aspiration hazard.

Specific target organ toxicity (single exposure)

This material has been classified as not a specific hazard to target organs by a single exposure

CHRONIC TOXICITY

Mutagenicity This material has been classified as not a mutagen.

Carcinogenicity This material has been classified as not a carcinogen.

Reproductive toxicity (including via lactation)

This material has been classified as a Category 2 Hazard.

Specific target organ toxicity (repeat exposure)

This material has been classified as not a specific hazard to target organs by repeat exposure.

SECTION 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Acute aquatic hazard

This material has been classified as not hazardous for acute aquatic exposure. Acute toxicity estimate (based on ingredients): > 100 mg/L

Long-term aquatic hazard

This material has been classified as not hazardous for chronic aquatic exposure. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients): >100 mg/L, where the substance is not rapidly degradable and/or BCF < 500 and/or log Kow < 4.

Ecotoxicity

No information available.

Persistence and degradability

No information available.

Bio accumulative potential

No information available.

Soil Mobility

No information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

SECTION 14. TRANSPORT INFORMATION

Road & Rail Transport		Marine Transport		Air Transport	
UN No.	-	UN No.	-	UN No.	-
Proper Shipping Name	-	Proper Shipping Name	-	Proper Shipping Name	-
DG Class	Non-Dangerous Goods	DG Class	Non-Dangerous Goods	DG Class	Non-Dangerous Goods
Sub Risk	None	Sub Risk	None	Sub Risk	None
Pack Group	-	Pack Group	-	Pack Group	-
Hazchem	-	Hazchem	-	Hazchem	-

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

SECTION 15. REGULATORY INFORMATION

New Zealand Regulatory Information

Classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

HSNO Approval Number	HSR002602
HSNO Group Standard	Lubricants (Combustible) Group Standard 2020
HSNO Classification	6.1 Category D - Acute Toxicity - Inhalation - Category 4 6.3 Category A - Skin Corrosion/Irritation - Category 2 6.8 Category B - Reproductive Toxicity - Category 2

SECTION 16. OTHER INFORMATION

References

Workplace Exposure Standards and Biological Exposure Indices.
Transport of Dangerous goods on land NZS 5433:2020
Preparation of Safety Data Sheets - Approved Code of Practice Under the HSNO Act 1996 (HSNO CoP 8-1 09-06). Assigning a hazardous substance to a group standard.
American Conference of Industrial Hygienists (ACGIH)

END OF SDS