INDUSTRIAL LUBRICANTS & SERVICES LIMITED

SAFETY DATA SHEET

ILS SPARK EROSION FLUID

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Issued by: Industrial Lubricants & Services Ltd
10 pages

SECTION 1. IDENTIFICATION

Product Identifier ILS SPARK EROSION FLUID

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
Industrial Chemical

SECTION 2. HAZARD IDENTIFICATION

GHS/HSNO classification of the substance/mixture

6.lE (Aspiration hazard 1) - Substance that is acutely toxic

This material has been classified in accordance with Hazardous Substances (Safety Data Sheets) Notice 2017 and classified as hazardous according to the Hazardous Substances (Classification) Regulations 2001.

This material is not classified as DANGEROUS GOODS according to criteria in New Zealand Standard 5433:2020 Transport of Dangerous Goods on Land.

Classification of the hazardous chemical

Physical hazards	Not classified.
Health hazards	Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2
Environmental hazards	Not classified.

Label elements, including precautionary statements

Hazard symbol(s)

Health Hazard

Signal word **DANGER**

Hazard statement(s)

H304 May be fatal if swallowed and enters airways.

Precautionary statement(s)

Prevention

P102 Keep out of reach of children.

P103 Read label before use.

Response

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Storage

P405: Store locked up.

Disposal

P501 In the case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001. This may also include any method of disposal that must be avoided. See Section 13 for disposal details.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	Content in % weight	CAS NO
Distillates, petroleum, hydrotreated light	90 – 100	64742-47-8

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

Keep water and mild soap near work site. For advice in an emergency, contact a Poisons Information

Centre or a doctor at once. (0800 764 766)

Inhalation	Move the victim to fresh air and keep at rest in a position comfortable for breathing. Begin artificial respiration if breathing has stopped. Seek medical attention
Ingestion	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	Remove all contaminated clothing immediately. Wash affected area thoroughly with soap and water. Wash contaminated clothing before reuse or discard. Seek medical attention.
Eye contact	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. If symptoms develop and/or persist seek medical attention.
First Aid Facilities	Eye wash, safety shower and normal washroom facilities.
Advice to Doctor	Treat according to symptoms. Avoid gastric lavage: risk of aspiration of product to the lungs with the potential to cause chemical pneumonitis.
Protection of first-aiders	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)

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable	In case of fire, use foam, dry chemical or carbon dioxide extinguisher or spray.
Not suitable	Do not use water jet.
Specific hazards arising from the chemical	None identified
Hazardous combustion products	Smoke, fume, carbon dioxide and carbon monoxide and incomplete combustion products

Hazchem code	Not available.
Special precautions for fire- fighters	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 water courses.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Accidental Release Controls

Avoid contact with spilled material. Evacuate area. Wear personal protective equipment.

Emergency Procedures

Prevent material from escaping to drains and waterways. Contain leaking packaging in a containment drum. Prevent vapours from building up in confined areas. Ensure that drain valves are closed at all times. Clean up and report spills immediately.

Methods and material for containment and cleaning up

Small spill

- Eliminate sources of ignition
- Warn occupants of downwind areas of possible fire and explosion hazard
- Prevent product from entering sewers, watercourses, or low-lying areas
- Keep the public away from the area
- Shut off the source of the spill if possible and safe to do so
- Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation
- Take measures to minimise the effect on ground water
- Contain any spilled liquid with sand or earth
- Recover liquid spills by pumping – use explosion proof pump or hand pump – or with a suitable absorbent material
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations
- See “First Aid Measures” and “Stability and Reactivity”

Large Spill

- Eliminate any sources of ignition
- Warn occupants and shipping in downwind areas of possible fire and explosion hazard
- Notify the port or relevant authority and keep the public away from the area
- Shut off the source of the spill if possible and safe to do so
- Confine the spill if possible
- Remove the product from the surface by skimming or with suitable absorbent material
- Consult an expert on disposal of recovered material and ensure conformity to local disposal

regulations
- See “First Aid Measures” and “Stability and Reactivity”.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling
Avoid contact with eyes and skin. Wear personal protective equipment. Keep container closed. Handle containers with care. Open slowly to control possible pressure release. Material will accumulate static charge which may cause an electrical spark (ignition source). Use bonding and/or earthing measures to avoid discharge (electrical spark) but note this may not eliminate hazard.

Conditions for safe storage, including any incompatibilities
Store locked up in a cool, dry place away from direct sunlight. Do not pressurise, cut, heat or weld containers. This product will fuel a fire in progress.

Recommended Materials
Carbon steel, stainless steel, polyethylene, polypropylene, polyester, Teflon.

Not suitable
Natural Rubber, Butyl Rubber, EPDM, Polystyrene

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National exposure limits
The time weighted average (TWA) concentration, which means the highest allowable exposure concentration in an eight-hour day for a five-day working week for this product is: No values established for NZ. Manufacturer recommendation: 1200 mg/m3 (143 ppm). The short-term exposure limit (STEL), which is the maximum allowable exposure concentration at any time.is: No values established.

Biological Limit Values
No biological limits allocated.

Appropriate engineering controls
The use of local exhaust ventilation is recommended to control process emissions near the source. Laboratory samples should be handled in a fume hood. Provide mechanical ventilation of confined spaces. Use explosion-proof ventilation equipment.

Individual protection measures
Eye protection
Always use safety glasses or a face shield when handling this product.

Skin / Body Protection
Always wear long sleeves and long trousers or coveralls, and enclosed footwear or safety boots when handling this product. It is recommended that chemical resistant gloves (e.g. PVC) be worn when handling this product.

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 for further details on the use of respiratory protective equipment.

Recommended Filter Type

Type A filter (organic vapour)

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Properties	Description	Properties	Description
Form	Liquid	**Appearance**	Clear, colourless liquid
Colour	Clear, colourless	**Odour**	Not Available
Decomposition temperature (°C)	Not Available	**Melting Point**	Not Available
Boiling Point (°C)	248 - 265	**Solubility with Water (% w/w)**	Negligible
Specific Gravity	0.81	**pH**	Neutral
Vapour Pressure @ 20°C (kPa)	0.001	**Vapour Density @ 20°C (kPa)**	7
Evaporation Rate	Evaporation rate (nBuAc=1): <1	**Odour Threshold**	Not Available
Viscosity @ 25°C (cSt) Viscosity @ 40°C (cSt)	3.3 2.54	**Volatile Component**	100% (v/v)
Partition Coefficient: n-octanol/water	Not Available	**Density @ 15°C**	0.81
Flash Point (°C)	114	**Flammability**	Not Available
Auto Ignition Temp (°C)	220	**Flammable Limits - Lower**	0.5%
Flammable Limits - Upper	4.7%	**Other Solubility**	Hydrocarbons; alcohols

SECTION 10. STABILITY AND REACTIVITY

Chemical stability

Stable at room temperature and pressure

Conditions to Avoid

Heat, open flames and other sources of ignition.

Incompatible materials

Strong oxidising agents.

Hazardous Decomposition Products

Carbon monoxide, carbon dioxide, and other organic complexes on incomplete burning or oxidation

Possibility of hazardous reactions
Strong oxidising agents

Hazardous Polymerization
Under normal conditions of storage and use, hazardous polymerisation will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.

Ingestion Minimally toxic. May be fatal if swallowed and enters airways. Small amounts of liquid aspirated into the lungs during ingestion, or from vomiting, may cause chemical pneumonitis, or pulmonary oedema.

Skin contact This product may be mildly irritating to the skin with prolonged exposure. It may result in dryness and cracking.

Eye contact This product is mildly irritating to eyes, with short lasting discomfort, but will not permanently damage the eye tissue.

Potential chronic health effects

No chronic health data is available for this product.

Oral / Dermal LD50		No data available
Inhalation LC50		No data available
Acute Toxicity	*(6.1A, 6.1B, 6.1C, 6.1D)*	Not classified as an acute toxicant
Aspiration Hazard	*(6.1E)*	May be fatal if swallowed and enters airways
Respiratory Irritation	*(6.1E)*	Not classified
Skin Corrosion/Irritation	*(8.2A, 8.2B, 8.2C, 6.3A)*	Not classified
Serious Eye damage/irritation	*(8.3A, 6.3A)*	Not classified
Respiratory or Skin Sensitisation	*(6.5A, 6.5B)*	Not classified
Germ cell mutagenicity	*(6.6A, 6.6B)*	Not classified
Carcinogenicity	*(6.7A, 6.7B)*	Not classified
Reproductive Toxicity	*(6.8A, 6.8B, 6.8C)*	Not classified
Specific Organ Toxicity (Repeated and Single Exposure)	*(6.9A, 6.9B)*	Not classified
Narcotic Effects	*(6.9B)*	Not classified

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Toxicity

Fish toxicity, LC50 (96 hr): No data available

Crustacean toxicity (Daphnia Magna), EC50 (48 hr): No data available

Green algae toxicity, EC50 (72 hr): No data available

Blue-green algae toxicity (Cyanobacteria), EC50 (72 hr): No data available

Persistence and degradability
This product will evaporate and commence degradation on exposure to light and air.

Bioaccumulative potential
No information available

Mobility
This product is highly volatile and partition rapidly in air. Will float on water. Not expected to partition to sediment and wastewater solids.

Environmental Protection
Prevent this material entering waterways, drains and sewers.

Other ecological information
Not expected to be harmful to aquatic organisms - not classified as ecotoxic.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods
Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national and local authorities. Packaging may still contain harmful residue and/or fumes and vapours that are flammable. Ensure that empty packaging is allowed to dry.

Special Precautions for Landfill or Incineration
This product is NOT suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers. This product must be disposed as chemical waste in accordance with the local authority.

SECTION 14. TRANSPORT INFORMATION

Road & Rail Transport		Marine Transport		Air Transport	
UN No.	N/R	UN No.	N/R	UN No.	N/R
Proper Shipping Name	N/A	Proper Shipping Name	N/A	Proper Shipping Name	N/A
DG Class	N/R	DG Class	N/R	DG Class	N/R
Sub Risk	None	Sub Risk	None	Sub Risk	None
Pack Group	N/R	Pack Group	N/R	Pack Group	N/R
Hazchem	N/R	Hazchem	N/R	Hazchem	N/R

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

Dangerous Goods Segregation
This product is classified as Dangerous Goods Class N/R, packing group N/R

SECTION 15. REGULATORY INFORMATION

New Zealand Regulatory Information

HSNO Approval Number	HSR002653
HSNO Group Standard	Solvents (Subsidiary Hazard) Group Standard 2020
HSNO Classification	None classified

Safety, health and environmental regulations/legislation specific for the substance or mixture
Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended. The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended (the Chemical Act).

HSNO/HSWA Controls:
Refer to the above Group Standard, Health and Safety at Work Act 2015, www.epa.govt.nz and www.worksafe.govt.nz for further information on controls

Certified Handler:	Not required
Tracking:	Not required
Restriction to workplace:	Not applicable
Signage:	Not required
Fire extinguishers:	Not required
Emergency Response Plan:	Not required
Secondary containment:	Not required
Agricultural Compounds and Veterinary Medicines Act 1997 (ACVM):	Not applicable
Montreal Protocol on Substances that Deplete the Ozone Layer:	Not applicable
Stockholm Convention:	Not applicable
Rotterdam Convention:	Not applicable

SECTION 16. OTHER INFORMATION

Date of preparation or last revision of SDS
SDS created: April 2017
SDS revised: August 2022

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