

MATERIAL SAFETY DATA SHEET

PRODUCT NAME : SUPERGRADE A MECHANICAL PUMP OIL

1. Product and Company Identification

Product name: Supergrade A Mechanical Pump Oil
Synonyms: Inland 19
Item Numbers: H019-00-001, H019-00-002, H019-00-003, H019-00-004, H019-00-005, H110-10-029

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2. Hazards Identification

EMERGENCY OVERVIEW

This material when properly handled according to good working and hygienic practices is not dangerous to human health and the environment. Oil mist or vapours may be generated but they have been assessed as not hazardous (in accordance with OSHA 29 CFR 1910.1200).

For short and long term exposure effects, refer to Section 11 Toxicological data.

Eye Effects: Exposure to oil mist may cause irritation to the eye.
Skin Effects: Repeated or prolonged skin contact may cause dermatitis and defatting.
Ingestion/Oral Effects: Not expected to be acutely toxic.
Inhalation Effects: Vapour pressure is very low. Vapour inhalation under ambient conditions is normally not a problem. Inhalation of oil mist or vapours at elevated temperature may cause respiratory irritation.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

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NFPA Hazard codes		HMIS Hazard codes		Rating System
Health	1	Health	1	0 = No Hazard 1 = Slight Hazard 2 = Moderate Hazard 3 = Serious Hazard 4 = Severe Hazard
Flammability	1	Flammability	1	
Instability	0	Reactivity	0	

3. Composition/Information on Ingredients

Ingredient	% Weight	CAS No	Hazard class*	Risk phrase*
Mixture of severely hydrotreated and hydrocracked base oil (petroleum)	100	(See note below)	Non Hazardous	Not Applicable

*Hazard class & Risk phrase. These columns are only completed for ingredients which are classified as hazardous under EU Directive No 1272/2008 (as amended) and are present in sufficient concentration to make the overall substance hazardous. In all other situations, the column will be completed as "Not applicable".

Note on CAS number: The base oil may contain one or more of the following ingredients: 8042-47-5, 64742-46-7, 64742-47-8, 64742-53-6, 64742-54-7, 64742-55-8, 64742-65-0, 72623-84-8, 72623-85-9, 72623-86-0, 72623-87-1, 178603-64-0, 178603-65-1, 178603-66-2, 445411-73-4.

4. First Aid Measures

Eyes:	Flush eyes with large amounts of water until irritation subsides. If irritation persists, get medical attention.
Skin:	Flush with large amounts of water. Use soap if possible. Remove severely contaminated clothing and wash before re-use. If irritation persists seek medical attention.
Ingestion/Oral:	If swallowed, DO NOT induce vomiting, get medical attention. Small amounts in mouth may be washed out.
Inhalation:	Remove affected person to fresh air. If breathing has stopped, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.
Other Information:	None.

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5. Firefighting Measures

Extinguishing Media: Water spray, dry chemical, carbon dioxide (CO₂), foam.

Fire and Explosion Hazard: Incomplete combustion may produce carbon monoxide.
Avoid breathing smoke and vapour.

Special Protective Equipment for Firefighters: Wear self-contained breathing apparatus and protective clothing.
Use water spray to keep fire-exposed containers cool.

For Flammability Properties - refer to Section 9.

6. Accidental Release Measures

Remove sources of ignition

Land Spill:

- Small Spill: May be wiped up with a rag.
- Large Spill: Prevent product from entering the soil, drains, sewers and watercourses. Pick up spill with a suitable adsorbent, or take up with pump or vacuum.
- If product spills to extensive land area, contact your local authority for advice.

Water Spill: If product enters any watercourses or sewers, contact your local water authority for advice.

7. Handling and Storage

Handling: Take care to prevent small spills and leakage, to avoid a slip hazard.
Keep away from sources of ignition.
Avoid inhalation or contact with skin and eyes.

Storage: Store in tightly closed containers in cool, dry and well-ventilated areas. Store away from heat, sources of ignition, and incompatible materials: refer to Section 10 "Stability and Reactivity".

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8. Exposure Controls/Personal Protection

Exposure Limits:

Ingredient	ACGIH - TLV	OSHA - PEL	Occupational Exposure Limits EH40 (UK)
Solvent refined neutral paraffinic oil	5 mg/m ³ - 8 hr TWA (as oil mist, mineral)	5 mg/m ³ - 8 hr TWA (as oil mist, mineral)	5 mg/m ³ - 8 hr TWA (as oil mist, mineral)

Personal Protection:

Engineering Measures:

Where vapours or mists may be present, use mechanical ventilation to keep exposure to airborne contaminants below the recommended exposure limits. Ensure that eye wash stations and emergency showers are close to working areas.

Respiratory Protection:

Special ventilation is not necessary for normal applications. Where vapour/mist concentrations in air may exceed the exposure limits (and where engineering or other means of exposure reduction are not adequate) use an approved respirator.

Hand/Skin Protection:

Wear appropriate chemically protective gloves. When handling hot product, ensure that gloves are heat resistant and insulated.

Eye/Face Protection:

Wear chemical goggles/glasses or face shield where splashing may occur.

Hygiene Measures:

Practice good hygiene. Wash hands after use and prior to consuming food and drink.

Other/General Protection:

Wear appropriate clothing with long-sleeves and full-length trousers to prevent skin contact. Wear appropriate protective footwear.

Wear an oil-impervious rubber apron to avoid saturation of cloths due to splashing.

- **Warning:** There is a possibility of explosion if you pump gases containing Oxygen at a concentration greater than 4% above the proportion contained in air.
- **Caution:** Do not use mineral oil in conditions where the oil mist and an oxygen enriched atmosphere are in contact with an ignition source (such as a hot surface). Use an alternative pump fluid, such as PFPE, under these conditions.

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9. Physical and Chemical Properties

Appearance and Odour	Pale yellow liquid with a faint petroleum odour	Boiling point	112/234	°C/°F
pH (as supplied)	Not applicable	Freezing Point	No data available	°C/°F
Solubility in Water	Nil	Auto Ignition	No data available	°C/°F
Volatile Content by Volume	Negligible	Flash Point	>213/413	°C/°F
Specific Gravity	0.87			
Vapour Pressure (mbar)	<1.3 x 10 ⁻⁴ @ 25 °C	Vapour Pressure (Torr)	<1 x 10 ⁻⁴ @ 25 °C	

10. Stability and Reactivity

Stability:	Stable under normal working conditions.
Material/Conditions to Avoid:	Strong oxidising agents, extreme heat.
Hazardous Decomposition:	Normal combustion forms carbon dioxide and water vapour. Incomplete combustion can produce carbon monoxide.
Hazardous Polymerisation:	Will not occur.

11. Toxicological Information

For a comprehensive description of the various toxicological (health) effects which may arise if the user comes into contact with the substance or preparation refer to Section 2 Hazards Identification.

Animal data:

LD50 value: Acute oral toxicity: > 2000 mg/kg (rat).
Acute skin toxicity: > 2000 mg/kg (rabbit).

LC50 value: Acute inhalation toxicity: > 5 mg/l (rat).

Carcinogenicity:

The product does not contain any chemicals that are listed as carcinogens.

12. Ecological Information

Ecotoxicity:	No data available.
Mobility:	No data available.
Degradability:	No data available.

13. Disposal Considerations

The product is suitable for processing by an approved recycling facility or can be disposed of at any waste disposal site. Use of these methods is subject to user compliance with applicable laws and regulations.

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14. Transport Information

This product is not classified as dangerous under transport regulations.

PARAMETER	EUROPEAN	CANADIAN TDG	UNITED STATES DOT
Proper Shipping Name	Not applicable	Not applicable	Not applicable
Hazard Class	Not applicable	Not applicable	Not applicable
Identification Number	Not applicable	Not applicable	Not applicable
Shipping Label	Not applicable	Not applicable	Not applicable

15. Regulatory Information

European Regulatory Information

This product has been classified in accordance with EU Regulation No 1272/2008 (as amended) on the Classification, Labelling and Packaging of Substances and Mixtures.

Classified as dangerous to supply: No.

Risk Phrases: Not applicable.

Safety Phrases: Not applicable.

Symbols: None.

United States Regulatory Information

All materials contained in this product are on the US Toxic Substances Control Act (TSCA).

SARA TITLE III - SECTION 313 SUPPLIER NOTIFICATION:

This product does not contain toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) of 1986 and 40 CFR Part 372.

NEW JERSEY RTK CLASSIFICATION: Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et.seq., the product is to be identified as follows: PETROLEUM OIL.

CALIFORNIA PROPOSITION 65: This product does not contain chemicals known to the State of California to cause cancer or reproductive toxicity.

Canadian Regulatory Information

WHMIS Classification: Not known.

All ingredients in this product are included in the Canadian DSL.

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16. Other Information

This MSDS is compiled in accordance with ANSI Z400.1 and Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Sources of information for this data sheet:

- Inland Vacuum Inland 19 Material Data Sheet. Revision date December 2009.

Glossary:

ACGIH - American Conference of Governmental Industrial Hygienists; ANSI - American National Standards Institute; Canadian TDG - Canadian Transportation of Dangerous Goods; CAS - Chemical Abstracts Service; CHIP - Chemical (Hazard Information and Packing); CFR - Code of Federal Regulations; DMSO - Dimethyl Sulfoxide; DSL - Domestic Substances List; EH40 (UK) - HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA - Emergency Planning and Community Right-to-Know Act; EU - European Union; HMIS - Hazardous Material Information Service; LC - Lethal Concentration; LD - Lethal Dose; NFPA - National Fire Protection Association; OSHA - Occupational Safety and Health Administration, US Department of Labour; PAC - Polycyclic Aromatic Compound; PEL - Permissible Exposure Limit; PFPE - Perfluoropolyether; SARA (Title III) - Superfund Amendments and Reauthorization Act; SARA 313 - Superfund Amendments and Reauthorization Act, Section 313; SCBA - Self-Contained Breathing Apparatus; STEL - Short Term Exposure Limit; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act Public Law 94-469; TWA - Time-Weighted Average; US DOT - US Department of Transportation; WHMIS - Workplace Hazardous Materials Information System.

Revisions:

August 2010 - Data Sheet updated to reflect the latest supplier safety information.

Although the information and recommendations in this data sheet are to the best of our knowledge correct, it is recommended that you make your own determination of the material's suitability for your purpose before you use it. The information contained in this data sheet has been reproduced from the manufacturers' data; the accuracy of this information is the responsibility of the manufacturer. Edwards accept no responsibility for damage of any nature resulting from the use of, or the reliance upon, this data sheet.