

MATERIAL SAFETY DATA SHEET

PRODUCT NAME : MECHANICAL PUMP OIL - LOWVAC 60

1. Product and Company Identification

Product name: LowVac 60 Mechanical Pump Oil
Synonyms: None
Item Numbers: LowVac 60 : H11029015, H11029010

European Contact Details

Edwards, Manor Royal, Crawley
West Sussex, RH10 9LW, England

General enquiries

UK : +44 (0)1293 528844
France : +(33) 1 47 98 24 01
Germany : +(49) 6420-82-410
Italy : +(39) 0248-4471

US Contact Details

Edwards, 301 Ballardvale Street,
Wilmington, MA 01887

General enquiries

+(1) 978-658-5410
Toll Free: 1-800-848-9800

24 h Emergency telephone number:

Chemtrec: 1-800-424-9300

2. Composition/Information on Ingredients

Ingredient	% Weight	CAS No	Hazard class*	Risk phrase*
Severely hydrotreated and hydrocracked petroleum oil and non-hazardous additives	100	72623-86-0 72623-87-1 72623-85-9	Not applicable	Not applicable

***Hazard class & Risk phrase.** These columns are only completed for ingredients which are classified as hazardous under EU Directive (67/548/EEC, 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".

3. Hazards Identification

EMERGENCY OVERVIEW

Non-hazardous in bulk liquid form at low to moderate temperatures. Prolonged exposure to skin may possibly cause dermatitis. Inhalation of oil mists or vapours from hot oil may cause irritation of the upper respiratory tract. Toxic gases will be produced at high temperatures.

For short and long term exposure effects see Section 11 Toxicological data.

Eye Effects: Short-term exposure may cause slight irritation.

Skin Effects: Short-term exposure may cause slight irritation. Prolonged or repeated contact may defat and dry skin, and cause dermatitis.

Ingestion/Oral Effects: Low toxicity on ingestion. May produce a laxative effect. Ingestion may lead to aspiration of the liquid product, especially if vomiting occurs. This may result in pneumonitis and/or pulmonary oedema.

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Inhalation Effects: The product is not expected to be inhaled in any appreciable quantities under normal ambient conditions. Elevated temperatures or mechanical action may form vapours, mists or fumes, inhalation of which may cause irritation of the respiratory tract.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Repeated contact may aggravate pre-existing skin conditions.

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

4. First Aid Measures

Eyes: Flush eyes with large amounts of water for at least 15 minutes, keeping eyelids open. Seek medical attention if irritation persists.

Skin: Remove contaminated clothing, and launder before reuse. Gently and thoroughly wash affected area of skin with running water and non-abrasive soap. Seek medical attention if irritation persists.

Ingestion/Oral: If swallowed, DO NOT induce vomiting. Seek medical attention.

Inhalation: Use approved respiratory protection and remove the affected person to a safe area as soon as possible. Administer artificial respiration if breathing has stopped. Seek medical attention.

Other Information: Safely dispose of heavily contaminated clothing which cannot be cleaned

5. Fire Fighting Measures

Extinguishing Media: Use water spray to cool surfaces exposed to fire and to protect personnel. Shut off source of fuel to the fire. Extinguish with foam, dry chemical or water spray.

Fire and Explosion Hazard: Avoid spraying water directly into storage containers due to danger of boilover. Containers may explode if exposed to fire. See also Section 4 "First Aid measures" and Section 10 "Stability and Reactivity".

Special Protective Equipment for Fire Fighters: Fire fighters should wear respiratory and eye protection and full turnout gear.

For Flammability Properties - see Section 9

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6. Accidental Release Measures

Remove/extinguish sources of ignition. Avoid inhalation and contact with skin and eyes. Stop the leak if it is safe/possible to do so. Use dykes to prevent spreading.

Use suitable inert absorbent materials to absorb spilled product. Dispose of collected product safely: see Section 13 "Disposal Considerations".

Avoid contaminating sewers, streams, rivers and other water courses with spilled product. Notify the appropriate authorities if significant contamination occurs.

7. Handling and Storage

Handling: Keep away from sources of ignition. Avoid inhalation and contact with skin and eyes. In case of insufficient ventilation, wear suitable respiratory equipment. Practice good personal hygiene. Wash hands after handling and before eating. Launder work clothes frequently. Dispose of contaminated leather clothes and shoes and other contaminated clothing items which cannot be properly cleaned.

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

8. Exposure Controls/Personal Protection

Exposure Limits:

Ingredient	ACGIH - TLV	OSHA - PEL	Occupational Exposure Limits EH40 (UK)
Severely hydrotreated petroleum oil	5 mg/m ³ - 8 H TWA (as oil mist, mineral)	5 mg/m ³ - 8 H TWA (as oil mist, mineral)	5 mg/m ³ - 8 H 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.

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9. Physical and Chemical Properties

Appearance and Odour	Pale straw yellow viscous liquid, petroleum odour	Boiling point	315 / 600	°C/°F
pH (as supplied)	No data available	Freezing Point	-42/-44 (pour point)	°C/°F
Solubility in Water	Insoluble	Auto Ignition	235 / 455	°C/°F
Volatile Content by Volume	Non volatile	Flash Point	208 / 406	°C/°F
Specific Gravity	0.842 to 0.862 kg/l @ 15 °C	Viscosity	58 cSt (@ 40 °C)	
Vapour Pressure (mbar)	3×10^{-5} @ 20 °C	Vapour Pressure (Torr)	2.3×10^{-5} @ 68 °F	

10. Stability and Reactivity

Stability: Stable under normal working conditions.

Material/Conditions to Avoid: Strong oxidising agents and acids.

Hazardous Decomposition: May release oxides of carbon, sulphur, hydrogen, potassium, calcium or zinc, and methacrylate polymers, aldehydes, alkyl mercaptans, smoke and irritating vapours when heated to decomposition temperatures.

Hazardous Polymerisation: Will not occur.

11. Toxicological Information

For a comprehensive description for the various toxicological (health) effects which may arise if the user comes into contact with the substance or preparation refer to Section 3 Hazards Identification.

Animal data:

LD50 value: Acute oral toxicity : > 5000 mg/kg (rat); Acute dermal toxicity : > 2000 mg/kg (rabbit);
Acute inhalation toxicity : > 2500 mg/m³ /4h (rat).

LC50 value: No data available.

Carcinogenicity:

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

12. Ecological Information

No information available.

13. Disposal Considerations

Empty drums should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should in any case be taken to ensure compliance with EC, national and local regulations. This product is NOT suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers.

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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 the Dangerous Substances Directive (67/548/EEC, as amended) and the Preparations Directive (88/379/EEC, as amended), implemented in the UK as the Chemical (Hazard Information and Packing) Regulations 1994 (CHIP, as amended).

Classified as dangerous to supply : No

Risk Phrases : Not applicable

Safety Phrases : Not applicable

Symbols : None

United States Regulatory Information

This material is on the Toxic Substances Control Act Inventory (TSCA-U.S.).

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.

California Proposition 65: This product does not contain chemical known to the State of California to cause cancer or reproductive toxicity.

Canadian Regulatory Information

WHMIS Classification: D2B

This material is on the Domestic Substances List (DSL-Canadian).

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16. Other Information

This MSDS is compiled in accordance with ANSI Z400.1 and the EU Safety Data Sheet Directive 91/155/EEC.

Sources of information for this data sheet:

- Multisol Limited "Lowvac 60" Material Safety Data Sheet. Revision date: 3rd September 2004, Revision No. : 03.

Glossary:

ACGIH - American Conference of Governmental Industrial Hygienists; **ANSI** - American National Standards Institute; **Canadian TDG** - Canadian Transportation of Dangerous Goods; **CAS** - Chemical Abstracts Service; **Chemtrec** - Chemical Transportation Emergency Center (US); **CHIP** - Chemical (Hazard Information and Packing); **DSL** - Domestic Substances List; **EH40 (UK)** - HSE Guidance Note EH40 Occupational exposure limits; **EPCRA** - Emergency Planning and Community Right-to-Know Act; **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; **PEL** - Permissible exposure limit; **SARA (Title III)** - Superfund Amendments and Reauthorization Act; **SARA 313** - Superfund Amendments and Reauthorization Act, Section 313; **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:

Nov 2007 - 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.