

PRODUCT NAME : LowVac 60

1. Product and Company Identification

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

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2. Composition/Information on Ingredients

Ingredient	% Weight	CAS No	Hazard class*	Risk phrase*
Severely hydrotreated paraffinic oil and 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.

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

Eye Effects: Mildly irritating to eyes

Skin Effects: Prolonged exposure to skin may cause chapping, cracking or possibly dermatitis. Repeated contact with similar oils has caused oil acne, hair follicle inflammation and fatty tumours (lipid granulomas).

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Inhalation Effects: Negligible breathing hazard at normal temperatures (up to 38°C) or recommended blending temperatures. Elevated temperatures or mechanical action may form vapours, mists or fumes. Inhalation of oil mists or vapours from hot oil may cause irritation of the upper respiratory tract.

Ingestion/ Oral Effects: Low toxicity on ingestion. Has laxative effect. If vomiting occurs following ingestion, small amounts of oil may be aspirated into the lungs causing dangerous pneumonitis or edema.

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 until irritation subsides. If irritation persists get medical assistance. Keep eyelids open whilst flushing.

Skin: Flush with large amounts of water, use soap if available. Remove grossly contaminated clothing, including shoes, and launder before re use. Discard contaminated clothing which cannot be properly cleaned.

Ingestion/Oral: If swallowed, DO NOT induce vomiting. Keep at rest. Get prompt medical attention.

Inhalation: Using approved respiratory protection, immediately remove affected victim from exposure. Administer artificial respiration if breathing has stopped. Keep at rest. Call for prompt medical attention.

Other Information: Not applicable

5. Fire Fighting Measures

Extinguishing Media: Use water spray to cool surfaces exposed to fire and to protect personnel. Shut off "fuel" to fire. If a leak or spill has not ignited, use water spray to disperse the vapours and to protect people attempting to stop the leak. Either allow the fire to burn under controlled conditions or extinguish with foam or dry chemical. Try to cover liquid spills with foam.

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.

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Special Protective Equipment for Fire Fighters: No special protection required for small outdoor fires, Indoor fires and significant outdoor fires, wear a positive pressure self-contained breathing apparatus (SCBA) which meets appropriate standards operated in positive pressure mode and full turnout gear.

For Flammability Properties - see Section 9

6. Accidental Release Measures

LAND SPILL:

- Eliminate sources of ignition. Warn occupants of downwind areas of fire and explosion hazard. Prevent liquid from entering sewers, watercourses, or low areas.
- Keep public away. Shut off source if possible to do so without hazard. Advise police if substance has entered a watercourse or sewer or has contaminated soil or vegetation. Take measures to minimise the effect on the ground water.
- Contain spilled liquid with sand or earth. Recover by pumping (use an explosion proof or hand pump) or with a suitable absorbent. If liquid is too viscous for pumping, scrape up with shovels or pails and place in suitable containers for recycle or disposal. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations. See section 4 "First Aid Measures".

WATER SPILL:

- Eliminate sources of ignition. Warn occupants and shipping in downwind areas of fire and explosion hazard and request them to stay clear.
- Notify port or relevant authority and keep public away. Shut off source if possible to do so without hazard. Confine if possible.
- Remove from surface by skimming or with suitable absorbents. If allowed by local authorities and environmental agencies sinking and/or suitable dispersants may be used in non-confined waters.
- Consult an expert on disposal of any recovered material and ensure conformity to local disposal regulations.

See section 4 "First Aid Measures" and 10 "Stability and Reactivity".

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. Discard saturated leather goods and other contaminated clothing items which cannot be properly cleaned.

STORAGE:

Combustible materials should be stored away from extreme heat and strong oxidising agents. Store in tightly closed containers in cool, dry and well-ventilated areas. Ground all equipment used to handle or store product.

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8. Exposure Controls/Personal Protection

Exposure Limits

Ingredient	ACGIH - TLV *	OSHA - PEL	Occupational Exposure Limits EH40 (UK)
Severely hydrotreated paraffinic 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)

(*See Section 11 - Carcinogenicity.)

Personal Protection:

Engineering Measures:	Ensure good ventilation under all working conditions. Ensure that eye wash station and emergency shower are close to working area.
Respiratory Protection:	No special respiratory protection is normally required. For high airborne concentrations with adequate ventilation, use an approved organic vapour cartridge respirator.
Hand/Skin Protection:	For casual contact PVC gloves are suitable. For direct contact of more than 2 hours, Viton® or Nitrile gloves are recommended.
Eye/Face Protection:	Chemical splash goggles in case of splashing.
Hygiene Measures:	Practice good hygiene. Wash hands after use and prior to consuming food and drink.
Other/General Protection:	Long-sleeved clothing to minimise contact. Safety shoes as necessary for the job.

9. Physical and Chemical Properties

Appearance and Odour	Viscous Liquid/Pale straw yellow/Hydrocarbon	Boiling Point	315	°C
pH (as supplied)	No data available	Freezing Point	No data available	°C/°F
Solubility in Water	Insoluble in cold water	Auto Ignition	235	°C
Volatile Content by Volume	Non volatile	Flash Point	143	°C
Specific Gravity	0.9 kg/l @ 15°C	Viscosity	cSt	
Vapour Pressure	(kPa) 0.0030 (@ 20 °C)	(mbar) 3 x 10-5 @ 20°C	(Torr) 2.3 x 10-5 @ 68 ° F	

10. Stability and Reactivity

Stability:	Stable
Material/Conditions to Avoid:	Strong Oxidising Agents
Hazardous Decomposition:	Carbon oxides, sulphur oxides, and smoke on combustion

11. Toxicological Information

DCC1 No: 871

Ref 2D01-010 form issue 1.4

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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)

Mutagenicity:

No Data

Carcinogenicity:

Severely hydrotreated oils have historically been found to contain very low concentrations of Polycyclic Aromatic Hydrocarbons (PAHs). Severely refined oils have not generally produced skin tumours in animal skin painting studies; however, conflicting data exists for the carcinogenicity of severely refined oils. IARC considers the evidence for carcinogenicity of severely hydrotreated oils inadequate. Sulphur additives often found in the oils may serve as a confounding factor. Severely hydrotreated oils are not classified as carcinogenic by IARC, NTP, or the State of California.

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.

Empty drums may contain combustible product residue. Use appropriate precautions.

14. Transport Information

This product is not regulated 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

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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).

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 materials data sheet for Premium HVI 60. Revision 01. Date 10th July 1997.

ACGIH Documentation of TLVs.

National Library of Medicine electronic databases (Toxline, HSDB)

National Toxicology Program, 9th Annual Report on Carcinogens, 2000

International Agency for Research on Cancer, Lists of IARC Evaluations

U.S. Environmental Protection Agency, Title III List of Lists

State of California, Environmental Protection Agency, Office of Environmental Health Hazard Assessment Safe Drinking Water and Toxic Enforcement Act of 1986, "Chemicals Known to the State to Cause Cancer or Reproductive Toxicity", February 23, 2001

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Glossary : **CAS**, Chemical Abstracts Service; **NFPA**, National Fire Protection Association; **HMIS**, Hazardous Material Information Service; **LD**, Lethal Dose; **LC**, Lethal Concentration; **ACGIH**, American Conference of Governmental Industrial Hygienists; **TLV**, threshold limit value; **OSHA**, Occupational Safety and Health Administration, US department of Labour; **PEL**, Permissible exposure limit; **EH40 (UK)**, HSE Guidance Note EH40 Occupational exposure limits; **PPM**, parts per million; **TWA**, Time-Weighted Average; **STEL**, Short Term Exposure Limit; **Canadian TDG**, Canadian Transportation of Dangerous Goods; **US DOT**, US Department of Transportation; **HSDB**, Hazardous Substances Data Bank; **DSL**, Domestic Substances List; **TSCA**, Toxic Substances Control Act Public Law 94-469; SARA (Title III), Superfund Amendments and Reauthorization Act; **SARA 313**, Superfund Amendments and Reauthorization Act, Section 313; **WHMIS**, Workplace Hazardous Materials Information System; **IARC**, International Agency for Research on Cancer; **NTP**, National Toxicology Program (U.S.) .

Revisions

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