

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name	Vacuum Pump Oil (4383)		
CAS #	Mixture		
Product use	Lubricating vacuum pumps		
Manufacturer	Nu-Calgon 2008 Altom Court St. Louis, MO 63146 US Phone: 314-469-7000 / 800-554-5499 Emergency Phone: 1-800-424-9300 (CHEMTREC)		
LEGEND HMIS/NFPA	Health / 1		
Severe 4	Flammability 1		
Serious 3			
Moderate 2	Physical Hazard 0		
Slight 1	Personal Protection		
Minimal 0	Personal Protection X		
	2. Hazards Identification		
Emergency overview	CAUTION EYE AND SKIN IRRITANT.		
Potential short term health effe	cts		
Routes of exposure	Eye, Skin contact, Inhalation, Ingestion.		
Eyes	May cause irritation.		
Skin	May cause irritation.		
Inhalation	Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).		
Ingestion	May cause stomach distress, nausea or vomiting.		
Target organs	Respiratory system. Skin. Eyes.		
Chronic effects	Prolonged or repeated exposure can cause drying, defatting and dermatitis.		
Signs and symptoms	Symptoms are prostration, gasping, pallor, and uncoordinated movements. Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.		

3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Distillates (petroleum), solvent-dewaxed heavy paraffin	64742-65-0	60 - 100

4. First Aid Measures

First aid procedures	
Eye contact	Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention immediately.
Skin contact	Immediately flush with water. Wash with soap and water. Obtain medical attention if irritation persists.
Inhalation	If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention. If breathing has stopped, trained personnel should administer CPR immediately.
Ingestion	Do not induce vomiting. Rinse mouth with water, then drink one or two glasses of water. Obtain medical attention. Never give anything by mouth if victim is unconscious, or is convulsing.
Notes to physician	Symptoms may be delayed.

General advice

Avoid contact with eyes and skin. Keep out of reach of children. Immediate medical attention is required. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. If you feel unwell, seek medical advice (show the label where possible).

5. Fire Fighting Measures

	6. Accidental Release Measures
Sensitivity to static discharge	Not available
Sensitivity to mechanical impact	Not available
Explosion data	
Hazardous combustion products	May include and are not limited to: Oxides of carbon.
Protective equipment for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.
Specific hazards arising from the chemical	Not available
Protection of firefighters	
Unsuitable extinguishing media	Not available
Suitable extinguishing media	Dry chemical. Carbon dioxide. Fog. Foam.
Extinguishing media	
Flammable properties	Not flammable by WHMIS/OSHA criteria.

Personal precautionsKeep unnecessary personnel away. Do not touch or walk through spilled material. Do
not touch damaged containers or spilled material unless wearing appropriate protective
clothing. Keep people away from and upwind of spill/leak.Methods for containmentStop leak if you can do so without risk. Prevent entry into waterways, sewers,
basements or confined areas.Methods for cleaning upBefore attempting clean up, refer to hazard data given above. Small spills may be
absorbed with non-reactive absorbent and placed in suitable, covered, labelled
containers. Prevent large spills from entering sewers or waterways. Contact emergency
services and supplier for advice. Never return spills in original containers for re-use.

7. Handling and Storage

Handling	Use good industrial hygiene practices in handling this material. Do not get this material in your eyes, on your skin, or on your clothing.
Storage	Keep out of the reach of children. Store in a closed container away from incompatible materials. Keep out of reach of children. Store in a closed container away from incompatible materials.

8. Exposure Controls / Personal Protection

Exposure limits Ingredient(s)		Exposure Limits
Distillates (petroleum), solvent-dewaxed heavy paraffin		ACGIH-TLV
		Not established
		OSHA-PEL
		Not established
Engineering controls	Provide adequate ve	ntilation. General ventilation normally adequate.
Personal protective equipment		
Eye / face protection	Wear chemical goggles.	
Hand protection	Rubber gloves. Confirm with a reputable supplier first.	
Skin and body protection	As required by employer code.	
Respiratory protection	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.	
General hygiene considerations		with good industrial hygiene and safety practice. When using do not ash hands before breaks and immediately after handling the product.

9. Physical & Chemical Properties

Appearance	Clear.
Color	Light amber
Form	Liquid
Odor	Mild petroleum
Odor threshold	Not available
Physical state	Liquid
рН	Not available
Melting point	Not available
Freezing point	Not available
Boiling point	> 100.00 °C (> 212 °F)
Flash point	> 93.33 °C (> 200 °F)
Evaporation rate	Not available
Flammability limits in air, lower, % by volume	Not available
Flammability limits in air, upper, % by volume	Not available
Vapor pressure	< 0.0001 mmHg
Vapor density	Not available
Specific gravity	0.87
Octanol/water coefficient	Not available
Solubility (H2O)	Miscible
Auto-ignition temperature	Not available
VOC (Weight %)	Not available
Viscosity	Not available
Percent volatile	Not available

10. Chemical Stability & Reactivity Information

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with other chemicals.
Incompatible materials	Oxidizers.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Component analysis - LC50			
Ingredient(s)		LC50	
Distillates (petroleum), solvent-d	lewaxed heavy paraffin	2.18 mg/l/4h rat	
Component analysis - Oral LD	50		
Ingredient(s)		LD50	
Distillates (petroleum), solvent-dewaxed heavy paraffin		5000 mg/kg rat	
Effects of acute exposure			
Eye	May cause irritatior	May cause irritation.	
Skin	May cause irritation	May cause irritation.	
Inhalation		Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).	
Ingestion	May cause stomach	May cause stomach distress, nausea or vomiting.	
Sensitization	Non-hazardous by	Non-hazardous by WHMIS/OSHA criteria.	
Chronic effects	Non-hazardous by	Non-hazardous by WHMIS/OSHA criteria.	
Carcinogenicity	Non-hazardous by	Non-hazardous by WHMIS/OSHA criteria.	
Mutagenicity	Non-hazardous by	Non-hazardous by WHMIS/OSHA criteria.	

12. Ecological Information

Ecotoxicity	Componer concerns.	nts of this product have been identified as having potential environmental	
Ecotoxicity - Freshwater Fish Spe	ecies Data		
Distillates (petroleum), solvent-dewaxed heavy paraffin Ecotoxicity - Water Flea Data	64742-65-0	96 Hr LC50 Pimephales promelas: >5000 mg/L	
Distillates (petroleum), solvent-dewaxed heavy paraffin	64742-65-0	48 Hr EC50 Daphnia magna: >1000 mg/L	
Environmental effects	Not availa	able	
Aquatic toxicity	Not availa	able	
Persistence / degradability	Not availa	able	
Bioaccumulation / accumulation	Not availa	able	
Partition coefficient	Not availa	able	
Mobility in environmental media	Not availa	able	
Chemical fate information	Not availa	ble	
	13. D	isposal Considerations	
Waste codes	Not availa	ble	
Disposal instructions	Dispose ir	accordance with all applicable regulations.	
Waste from residues / unused	Not availa	ble	
products			
Contaminated packaging	Not availa	ble	
	14.	Transport Information	
U.S. Department of Transportation Not regulated as dangerous go Transportation of Dangerous Go Not regulated as dangerous go	oods. ods (TDG - Cai	nada)	
	15. I	Regulatory Information	
Canadian federal regulations	Products I	uct has been classified in accordance with the hazard criteria of the Controlled Regulations and the MSDS contains all the information required by the I Products Regulations.	
US Federal regulations	Communi	uct is a "Hazardous Chemical" as defined by the OSHA Hazard cation Standard, 29 CFR 1910.1200. nents are on the U.S. EPA TSCA Inventory List.	
	CERCLA/	SARA Hazardous Substances - Not applicable.	
Occupational Safety and Health			
29 CFR 1910.1200 hazardous chemical			
CERCLA (Superfund) reportable	quantity		
None			
Superfund Amendments and Rea	authorization A	ct of 1986 (SARA)	
Hazard categories	Immediate Delayed H Fire Haza Pressure I	e Hazard - Yes lazard - No	
Section 302 extremely hazardous substance	No		

A "Yes" indicates that all components o	f this product comply with the inventory requirements administered by 16. Other Information	the governing country(s)
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
Canada	Non-Domestic Substances List (NDSL)	No
Canada	Domestic Substances List (DSL)	Yes
Country(s) or region	Inventory name	On inventory (yes/no)*
Inventory name		
State regulations	This product does not contain a chemical known to the St cancer, birth defects or other reproductive harm.	tate of California to cause
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WHMIS labeling		
WHMIS classification	Class D - Division 2B	
WHMIS status	Controlled	
Food and Drug Administration (FDA)	Not available	
Drug Enforcement Agency (DEA)	Not available	
Safe Drinking Water Act (SDWA)	Not available	
Clean Water Act (CWA)	Not available	
Clean Air Act (CAA)	Not available	

Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document. 21-Jul-2011

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