

HYVAC PRODUCTS, INC.

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MATERIAL SAFETY DATA SHEET

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This Product Safety information is provided periodically to assist our customers in assessing compliance with Health/Safety/Environmental Regulations. Please forward this to your manager of Safety and Health.

SECTION I. IDENTIFICATION

TRADE NAME: HyVac Flushing Oil
CATALOG NUMBER: 93060
SYNONYMS: Flushing Oil
CAS REGISTRY NUMBER: 64741-88-4
UN NUMBER:
TECHNICAL CONTACT: (610) 792-0500
MATERIAL HAZARD EVALUATION (Per OSHA's Hazard Communication Standard 29 CFR Part 1910.100) (OHCS).

HEALTH: Non-Hazardous. (OHCS)

PRECAUTIONARY STATEMENT: None

SECTION II. GENERIC COMPOSITION / COMPONENTS

<u>COMPONENTS</u>	<u>CAS #</u>	<u>%</u>	<u>HAZARD DATA</u>
Refined Petroleum Oil(s)	64741-88-4	100	Oral: LD50(rat): >15g/kg Eye: Practically Non-Irritating Skin: Practically Non-Irritating Inln: LC50/4H(rat): >5,000mg/m ³

SECTION III. PHYSICAL DATA

Physical Hazard Classification (Per 29 CFR Part 1910.1200)

BOILING POINT:	760 mmHg	Wide Range °F
MELTING POINT:	°C - °F	NA
SPECIFIC GRAVITY:	(H ₂ O=1)	0.87
VAPOR PRESSURE:	mmHg (20°C)	Below .0001
VAPOR DENSITY:	(Air=1)	14
SOLUBILITY:	in H ₂ O, % by Wt.	Negligible
EVAPORATION RATE:	(ethyl ether = 1)	1000 times slower
% VOLATILES:	by Volume	Negligible
PH OF UNDILUTED PRODUCT:		ND
APPEARANCE:		Light Amber liquid
ODOR:		Little odor

<u>No</u>	Combustible	<u>No</u>	Oxidizer	<u>No</u>	Pyrophoric
<u>No</u>	Compressed Gas	<u>No</u>	Reactivity	<u>Yes</u>	Stable
<u>No</u>	Explosive	<u>No</u>	Organic Peroxide	<u>No</u>	Unstable
<u>No</u>	Flammable				

SECTION IV. FIRE AND EXPLOSION DATA

FLASH POINT, COC	215°C - 420°F	NEFA☆	
FLASH POINT, PM	211°C - 412°F	HEALTH:	1
FIRE POINT, COC	245°C - 475°F	FLAMMABILITY:	1
		REACTIVITY:	0

FLAMMABLE LIMITS IN AIR, % VOL.:

Lower: ND

Upper: ND

EXTINGUISHING MEDIA: CO₂, Dry chemical, Foam or Water Fog.

SPECIAL FIRE FIGHTING PROCEDURE: Wear self-contained breathing gear when fire fighting in confined spaces.

UNUSUAL FIRE OR EXPLOSION HAZARD: Water may cause frothing.

HyVac® assignment based on our evaluation per NFPA guidelines.

Hazard Rating: Least - 0 Slight - 1 Moderate - 2 High - 3 Extreme - 4

SECTION V. REACTIVITY DATE

STABILITY: Stable - Yes Unstable - No

CONDITIONS CONTRIBUTING TO INSTABILITY: None
INCOMPATIBILITY: Strong Oxidants

HAZARDOUS DECOMPOSITION PRODUCTS
(THERMAL, UNLESS OTHERWISE SPECIFIED): CO, CO₂

CONDITIONS CONTRIBUTING TO
HAZARDOUS POLYMERIZATION: None

SECTION VI. SPILL OR LEAK PROCEDURES

PROCEDURES IF MATERIAL IS SPILLED:

Remove sources of heat or ignition, provide adequate ventilation, contain the leak. Absorb small spills with suitable material such as rags, straw or sand. Report spills as required to appropriate authorities.

WASTE DISPOSAL:

It is the responsibility of the user to determine if the material is a hazardous waste at the time of disposal. Please check before disposing of product or container to be sure you are in compliance with all applicable laws and regulations.

PROTECTIVE MEASURES DURING REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT:

Refer to Section VIII - Special Protection Information.

Avoid prolonged contact with used oil, wash skin thoroughly with soap and water.

SECTION VII HEALTH HAZARD DATA

HEALTH HAZARD CLASSIFICATION (per 29 CFR Part 1910.1200)

Carcinogen:	No	Corrosive	No
Animal Carcinogen:	No	Irritant	No
Suspect Carcinogen:	No	Sensitizer	No
Mutagen:	No	Teratogen	No
Highly Toxic:	No	Target Organ	No
Toxic:	No		

PRODUCT LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN BY:

NTP - No IARC - No OSHA - No Other - No

TOXICITY SUMMARY: Slightly toxic, 1 pt. to 1 qt. is approximate lethal oral dose for 150 lbs.
human adult.

MAJOR ROUTE(s) OF ENTRY: Inhalation of fumes.

ACUTE EXPOSURE SYMPTOMS

INHALATION: Low risk of inhalation. In enclosed spaces or when hot, vapors may reach concentrations sufficient to cause drowsiness, dizziness, headache, nausea, or lung irritation. Mists above TLV may cause chemical pneumonitis.

DERMAL CONTACT: Transient, slight irritation.

EYE CONTACT: May be mildly irritating.

INGESTION: Generally low toxicity. Very large amounts may cause generalized depression, headache, drowsiness, nausea, vomiting or diarrhea. Small doses may produce irritation and diarrhea.

CHRONIC EXPOSURE: Prolonged and/or frequent contact may cause drying, cracking (dermatitis) or folliculitis. Repeated, excessive exposure to mists or fumes may induce pulmonary irritation or chronic bronchitis.

OTHER SPECIAL EFFECTS: None Expected.

FIRST AID AND EMERGENCY PROCEDURES FOR ACUTE EFFECT

INHALATION: Remove to fresh air. Respiratory support if necessary. Seek medical aid.

DERMAL: Wash with soap and water. Do not wear heavily contaminated clothing before laundering.

EYES: Flush with large volumes of water. See physician if any complications arise.

INGESTION: Do not induce vomiting. Seek medical aid.

INJECTION: Subcutaneous injection is a medical emergency. Seek medical aid immediately.

NOTES TO PHYSICIAN: Following ingestion, at a viscosity of about 350 SUS (100°F), the risk of aspiration into the lungs is remote, but cuffed tube lavage is still recommended for large quantities. Aspirated material may cause chemical pneumonitis or lipoid pneumonia. Subcutaneous or intramuscular injection requires prompt surgical debridement. If not familiar with technique, seek skilled advice.

SECTION VIII SPECIAL PROTECTION INFORMATION

VENTILATION REQUIREMENT: Ventilation is required when work place exposures exceed TLV.

PERMITTED THRESHOLD:	Agency: OSHA	OSHA	ACGIH	ACGIH	
AIR CONCENTRATIONS:	Year:	1972	1985	1985-86	1985-86
	Type:	TWA	PEL	TWA	STEL
	ppm:	-	-	-	-
	mg/m ³	5	5	5	10

SPECIFIC PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY: Normally none required. If high vapor or mist concentrations expected - use respirator approved for organic vapors and mists.

EYES: Safety goggles, or chemical splash goggles if splashing is anticipated.

DERMAL: Oil impervious gloves if frequent or prolonged contact is expected.

CLOTHING/EQUIPMENT: Wear body-covering work clothes to avoid prolonged or repeated exposure. Launder soiled work clothes before reuse.

SECTION IX TRANSPORTATION AND SPECIAL PRECAUTIONS

HAZARDOUS MATERIAL PLACARD/LABEL: None

STORAGE: Store below 150°F. Do not apply high heat or flame to container. Keep separate from strong oxidizing agents.

DOT INFORMATION:

DOT/UN Shipping Name:	Petroleum Lubricating Oil.
DOT Hazard Class:	Non-Hazardous
DOT/UN Hazard Identification #:	None assigned
DOT Shipping Container Restrictions:	None
DOT Placard:	None

CAUTION: Empty containers may contain product residue which could include flammable or explosive vapors.

Consult appropriate Federal, State and Local authorities before reusing, reconditioning, reclaiming, recycling or disposing of empty containers and/or waste residues of this product.

LABEL: Non-Hazardous. (OHCS)

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