

HYVAC PRODUCTS, INC.

P.O. Box 389 Phoenixville, PA 19460-0389

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 Pump Oil

CATALOG NUMBER: 93050 SHELF LIFE 3 years min.

SYNONYMS: Pump 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

COMPONENTS CAS # % HAZARD DATA

Refined Petroleum 64741-88-4 100 Oral: LD50(rat): >15g/kg

Oil(s) Eye: Practically Non-Irritating

Skin: Practically Non-Irritating

lHn: LC50/4H(rat): >5,000mg/m³

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: (H₂O=1) 0.87

VAPOR PRESSURE: mmHg (20°C) Below .0001

VAPOR DENSITY: (Air=1) 14

SOLUBILITY: in H₂O, % 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

No Combustible No Oxidizer No Pyrophoric
No Compressed Gas No Reactivity Yes Stable
No Explosive No Organic Peroxide No Unstable
No Flammable

SECTION IV. FIRE AND EXPLOSION DATA

FLASH POINT, COC 232^oC - 450^oF NEFA'
FLASH POINT, PM 228^oC - 441^oF HEALTH: 1
FIRE POINT, COC 226^oC - 510^oF 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: None
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 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. Check before disposing 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 lipid 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/m³ 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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