



Safety Data Sheet

Product No. 891-25, 891-38 Pfeiffer P3 Vacuum Pump Oil

Issue Date (03-18-15)

Review Date (06-26-15)

Section 1: Product and Company Identification

Product Name: Pfeiffer P3 Vacuum Pump Oil

Synonym: None

Company Name

Ted Pella, Inc., P.O. Box 492477, Redding, CA 96049-2477

Domestic Phone (800) 237-3526 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)

International Phone (01) (530) 243-2200 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)

Chemtrec Emergency Number 1-800-424-9300 24 hrs a day.

Section 2: Hazard Identification

GHS Pictograms: Not applicable. This product is not classified according to the CLP regulation. Information concerning particular hazards for human and environment:

A health risk is not expected. Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculite. Used oil may contain harmful impurities.

GHS Categories: None.

Hazard pictograms No GHS symbol or Void

Hazard statements Void

Signal Word: No word required or Void

Health Effects:

NFPA Hazard Rating: Health: 0; Fire: 1; Reactivity: 0

HMIS® Hazard Rating: Health: 0; Fire: 1; Reactivity: 0

(0=least, 1=Slight, 2=Moderate, 3=High, 4=Extreme)

Results of PBT and vPvB assessment: A chemical safety assessment has not been carried out.

PBT: NA

vPvB: NA

Emergency overview:

Appearance: Clear to yellow fluid

Immediate effects: Not considered a hazardous substance.

Potential health effects

Primary Routes of entry: Skin contact and eye contact, ingestion.

Signs and Symptoms of Overexposure: A health risk is not expected. Prolonged or

repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculate. Used oil may contain harmful impurities.

Eyes: May cause eye irritation.

Skin: Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculate.

Ingestion: May cause nausea, vomiting, and diarrhea if swallowed.

Inhalation: ND

Chronic Exposure: NA

Chemical Listed As Carcinogen or Potential Carcinogen: No

See Toxicological Information (Section 11)

Potential environmental effects

See Ecological Information (Section 12)

Section 3: Composition / Information on Ingredients

Principle Hazardous Component(s) (chemical and common name(s)) (Cas. No)	%	OSHA PEL mg/m ³	ACGIH TLV mg/m ³	NTP Carcinogen	IARC Carcinogen	OSHA regulated Carcinogen
Highly refined blend of mineral oils and additives	ND	ND	ND	No	No	No

The highly refined mineral oil contains < 3% (W/W) DMSO extract, according to IP346.

Dangerous components: Void

Additional information: IP 346: Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions – Dimethyl sulphoxide extraction refractive index method.

Section 4: First Aid Measures

If accidental overexposure is suspected

Eye(s) Contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Skin Contact: Remove contaminated clothes and shoes. Wash with water and soap. If skin irritation continues, consult a doctor.

Inhalation: Supply fresh air; consult doctor in case of complaints.

Ingestion: After swallowing large amounts, call a doctor.

Note to physician

Treatment: Symptomatic treatment

Medical Conditions generally Aggravated by Exposure: ND

Section 5: Fire Fighting Measures

Flash Point: 260 °C (500 °F) (open cup)

Flammable Limits: Lower: 1 Vol % Upper: 10 Vol % (based on mineral oil)

Auto-ignition point: 430 °C

Fire Extinguishing Media: CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. In small quantities: sand. Use fire-fighting measures that suit the environment. Water with full jet is unsuitable extinguishing agent.

Special Fire Fighting Procedures: Wear self-contained respiratory protective device.

Collect contaminated fire-fighting water separately. It must not enter the sewage system. Dispose of fire debris and contaminated fire-fighting water in accordance with official regulations.

Unusual Fire and Explosion Hazards: Reacts with strong oxidizing agents. Heating leads to increased pressure and danger of bursting and explosion. Immediately cool neighboring packages and containers with sprayed water and, if possible, remove them out of the danger zone.

Hazardous combustion products: ND

DOT Class: Not regulated.

Section 6: Accidental Release Measures

Steps to be Taken in Case Material is Released or Spilled: Avoid any product contact. Avoid contact with eyes and skin. Do not breathe aerosol or vapors. Particular danger of slipping on leaked/spilled product.

Environmental Precautions: Do not allow product to reach sewage system or any water course. Do not allow to penetrate the ground/soil.

Methods and material for containment and cleaning up: Absorb with non-combustible material like sand, soil, and diatomite. Send for recovery or disposal in suitable receptacles.

Dam up larger quantities and pump into containers.

Waste Disposal Methods: Dispose of waste according to Federal, State and Local Regulations.

Section 7: Handling and Storage

Precautions to be taken in Handling and Storage: Ensure good ventilation/exhaustion at the workplace. Avoid contact with eyes and skin. Do not breathe aerosol or vapors.

Avoid inhalation of vapors formed by heated product.

Information about protection against explosions and fires: Use only in explosion protected area. Observe the general rules of industrial fire protection. Protect against electrostatic charges. Assure that devices and containers are grounded.

Requirements to be met by storerooms and receptacles:

Store receptacles tightly closed at a cool and dry place with sufficient ventilation

Suitable material for containers and container coatings: soft steel or high-density polyethylene (HDPE).

Unsuitable material for receptacle: PVC

Storage temperature: Store in cool, dry conditions in well-sealed receptacles.

Storage Class: 10 Combustible liquids.

Storage Pressure: NA

Section 8: Exposure Controls / Personal Protection

Engineering Controls

Ventilation required: Install appropriate mechanical ventilation/exhaustion.

Personal Protection Equipment

General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed.

Before breaks and at the end of work, thoroughly wash hands with water and soap, then rub-in skin protecting cream. Immediately remove soiled, soaked clothing and use again only after washing.

Respiratory protection: Always use a NIOSH or European Standard EN 149 approved respirator when necessary. Under normal conditions of use not required. In case of unintentional release of substance, exceeding the occupational exposure limit value: Suitable respiratory protective device recommended.

Protective gloves: Chemical resistant gloves (EN 374). The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. · Material of gloves Nitrile rubber, NBR, Neoprene

Skin protection: Protective work clothing and safety footwear.

Eye protection: Safety glasses, full face mask, EN 166.

Additional clothing and/or equipment: NA

Exposure Guidelines

See Composition/Information on Ingredients (Section 3)

Section 9 Physical and Chemical Properties

Appearance and Physical State: Clear to yellow fluid.

Odor (threshold): Light, like hydrocarbons

Specific Gravity (H₂O=1): ND

Vapor Pressure (mm Hg): ND

Density at 15 °C (59 °F): 0.866 g/cm³ (7.227 lbs/gal)

Vapor Density at 20° C (68° F) (air= 1) : >1

Evaporation Rate (butyl acetate=1): ND

Partition coefficient (n-octanol/water): > 6 log POW (similar products)

Boiling Point: > 280 °C (> 536 °F) (estimated)

Melting point: < -15 °C (< 5 °F)

Pouring point: -9 °C (16 °F)

Viscosity: Dynamic: ND. Kinematic at 40 °C (104 °F): 95 mm²/s

Solvent content: VOC content: 3.0 %

pH: NA

Solubility in Water: Not miscible or difficult to mix.

Molecular Weight: ND

Section 10: Stability and Reactivity

Stability: Stable under recommended storage conditions.

Conditions to Avoid: Heat

Materials to Avoid (Incompatibility): Reacts with strong oxidizing agents.

Hazardous Decomposition Products: No hazardous decomposition products if instructions for storage and handling are followed.

Hazardous Polymerization: ND

Section 11: Toxicological Information

Results of component toxicity test performed:

Oral LD50 > 5000 mg/kg (rat) estimated

Dermal LD50 > 5000 mg/kg (rabbit) estimated

Primary irritant effect:

On the skin: Light irritation of the skin is possible.

On the eye: Light irritation possible.

On respiratory tract: Irritation of respiratory tract possible.

Sensitization: No sensitizing effects known.

Highly refined mineral oils are not classified as a carcinogen by the International Research on Cancer (IARC). Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may lead to risks to health and the environment on disposal. ALL used oil should be handled with care; contact with the skin should be avoided. Classifications of authorities under various regulatory frameworks may exist.

Human experience: ND

This product **does not** contain any compounds listed by NTP or IARC or regulated by OSHA as a carcinogen.

Section 12: Ecological Information

Ecological Information:

Aquatic toxicity: Presently there are no eco-toxicological values available. Poorly soluble mixture. May cause physical fouling of aquatic organisms. Expected to be practically non-toxic: LL/EL/IL50 > 100 mg/l (to aquatic organisms) (LL/EL50 expressed as the nominal amount of product required to prepare aqueous test extract). Mineral oil is not expected to cause any chronic effects to aquatic organisms at concentrations less than 1 mg/l.

Persistence and degradability: The product is not easily, but potentially biodegradable. Some of the compounds could be persistent in the environment.

Bio-accumulative potential $\log P (o/w) > 4$ - Considerable bioaccumulation is to be expected.

Mobility in soil: Liquid under most environmental conditions. Floats on water. If it enters soil, it will adsorb to soil particles and will not be mobile.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

Product is a mixture of non-volatile components, which are not expected to be released to air in any significant quantities. Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential.

Chemical Fate Information: ND

Section 13 Disposal Considerations

RCRA 40 CFR 261 Classification: None

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. The used respectively the unused product should be recycled if possible. Federal, State and local laws governing disposal of materials can differ. Ensure proper disposal compliance with proper authorities before disposal.

Section 14: Transportation Information

US DOT Information: Proper shipping name: Not regulated.

IATA: Proper shipping name: Not regulated.

Marine Pollutant: No

Canadian TDG: Not regulated.

Section 15: Regulatory Information

United States Federal Regulations

MSDS complies with OSHA's Hazard Communication Rule 29, CFR 1910.1200.

SARA: None of the ingredients is listed...

SARA Title III: None of the ingredients is listed.

RCRA: Not listed.

TSCA: All components are listed on the TSCA public inventory.

CERCLA: None of the ingredients is listed.

State Regulations

California Proposition 65: None of the ingredients is listed.

International Regulations

Canada WHMIS: ND

Europe EINECS Numbers: ND

Section 16: Other Information

Label Information: See Section 2.

European Risk and Safety Phrases: ND

European symbols needed: ND

Canadian WHMIS Symbols: ND

Abbreviations used in this document

NE= Not established

NA= Not applicable

NIF= No Information Found

ND= No Data

Disclaimer

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