

Safety Data Sheet

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

Issue Date (03-18-15)

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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

Inside USA and Canada 1-800-237-3526 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)

Outside USA and Canada 1-530-243-2200 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)

CHEMTREC USA and Canada Emergency Contact Number 1-800-424-9300 24 hours a day

CHEMTREC Outside USA and Canada Emergency Contact Number +1-703-741-5970 24 hours 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/folliculate.

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)

Section 3: Composition / Information on Ingredients

Principle Hazardous Component(s) CAS No.: None	%	OSHA PEL mg/m3	ACGIH TLV mg/m3	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

General information:	Personal protection for the First Aider.
After inhalation:	Supply fresh air; consult doctor in case of complaints.
After skin contact:	Remove contaminated clothes and shoes. Wash with water and soap. If skin irritation continues, consult a doctor.
After eye contact:	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After swallowing:	After swallowing large amounts, call a doctor

Most important symptoms and effects, both acute and delayed

	Signs and symptoms of acne/folliculate: Blackheads and pimples on exposed skin.
After swallowing:	Nausea Vomiting Diarrhea
Note to Physician:	Treatment: Symptomatic treatment

Section 5: Fire Fighting Measures

Extinguishing media:

- Suitable extinguishing agents: 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.
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- Unsuitable extinguishing agents: Water with full jet

Special hazards arising from the substance or mixture:

In case of fire, the following can be released: Complex mixture of solid and fluid particles and gases.
Carbon monoxide (CO)

Advice for firefighters:

- Protective equipment: Wear self-contained respiratory protective device.

Additional information:

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.

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.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

- 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, diatomite.
- Send for recovery or disposal in suitable receptacles.
- Dam up larger quantities and pump into containers.

Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Section 7: Handling and Storage

Precautions for safe handling:

- 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.

Conditions for safe storage, including any incompatibilities:

Storage 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.

Information about storage in one common storage facility:

- Store away from foodstuffs.
- Store away from feed.

Further information about storage conditions:

- Store in cool, dry conditions in well-sealed receptacles.

Storage class:

10 Combustible liquids

Specific end use(s):

No further relevant information available.

Section 8: Exposure Controls / Personal Protection

Engineering Controls:

Ventilation required: Install appropriate mechanical ventilation/exhaustion.

Control parameters:

Components with limit values that require monitoring at the workplace:

- The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Exposure controls:

Personal protective 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.

Breathing equipment:

- A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.
- 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.

Protection of hands:

- Chemical resistant gloves (EN 374)
- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves:

- Nitrile rubber, NBR
- PVC Neoprene

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material:

- The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. > 480 °C

Eye protection:

- As described by OSHA's eye and face protection regulations in 29 CFR 1910.133
- Safety glasses
- Full-face mask EN 166

Body protection:

- Protective work clothing
- Safety footwear

Section 9 Physical and Chemical Properties

Appearance	
• Form	Fluid
• Color	Yellowish
Odor	Light, like hydrocarbons
Odor threshold	Not determined
pH-Value	Not applicable
Change in Condition	
• Melting Point/Range	< -15 °C (< 5 °F)
• Boiling Point/Range	> 280 °C (> 536 °F) *estimated
Pouring Point	-9 °C (16 °F)
Flash Point	260 °C (500 °F) *open cup
Flammability	Not applicable
Ignition Temperature	Not determined
Decomposition Temperature	Not determined
Auto Ignition Temperature	430 °C
Danger of Explosion	Product does not present an explosion hazard
Explosion Limits	
• Lower	1 Vol %
• Upper	10 Vol % *based on mineral oil
Oxidizing Properties	Not determined
Vapor Pressure	Not determined
Density @ 15 °C (59 °F)	0.866 g/cm ³ (7.227 lbs/gal)
Relative Density	Not determined
Vapor Density @ 20 °C (68 °F)	>1 * estimated
Evaporation Rate	Not determined
Solubility in/Miscibility with Water	Not miscible or difficult to mix
Partition coefficient	> 6 log POW * similar products
Viscosity	
• Dynamic:	Not determined
• Kinematic @ 40 °C (104 °F)	95 mm ² /s
Solvent Content	
• VOC content	3.0%

Section 10: Stability and Reactivity

Reactivity:	No further relevant information available
Chemical Stability:	No decomposition if used and stored according to specifications
Possibility of Hazardous Reactions:	Reacts with strong oxidizing agents
Conditions to Avoid:	Heat
Incompatible Materials:	Strong oxidants
Hazardous Decomposition Products:	No hazardous decomposition products if instructions for storage and handling are followed.

Section 11: Toxicological Information

Information on Toxicological Effects

Acute Toxicity:

- Oral $LD_{50} > 5,000$ mg/kg (rat) * estimated
- Dermal $LD_{50} > 5,000$ 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.

Additional Toxicological Information:

- 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.

Carcinogenic Categories:

- IARC (International Agency for Research on Cancer) None of the ingredients is listed
- NTP (National Toxicology Program) None of the ingredients is listed
- OSHA-CA (Occupational safety & Health Administration) None of the ingredients is listed

Section 12: 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.

General Notes:

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.

Results of PBT and vPvB Assessment:

PBT: Not applicable

vPvB: Not applicable

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.

Section 13 Disposal Considerations

Recommendations:

- 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.

RCRA 40 CFR 261 Classification: None

Section 14: Transportation Information

UN Number: (DOT, ADR, ADN, IMDG, IATA)	Not regulated
UN Proper Shipping Name: (DOT, ADR, ADN, IMDG, IATA)	Not regulated
UN Transport Hazard Class: (DOT, ADR, ADN, IMDG, IATA)	Not regulated
UN Packing Group: (DOT, ADR, ADN, IMDG, IATA)	Not regulated
Marine Pollutant:	No
Special Precautions of User:	Not applicable

Section 15: Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA: Section 355 (extremely hazardous substance)	None of the ingredients is listed
SARA: Section 313 (specific toxic chemical listings)	None of the ingredients is listed
TSCA: (Toxic Substances Act)	All components are listed
Carcinogenic Categories	
EPA (Environmental Protection Act)	Not regulated
IARC ((International Agency for Research on Cancer)	Not regulated
TLV (Threshold Limit Value – ACGIH)	Not regulated
NOISH (National Institute for Occupational Safety & Health)	Not regulated
OSHA-CA (Occupational safety & Health Administration)	Not regulated
California Proposition 65: (Cancer)	None of the ingredients is listed.

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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