



Material Safety Data Sheet

Product No. 891-31, 891-34 Pelco Ultra 19 Vacuum Oil

Issue Date (12-14-10)

Review Date (05-24-12)

Section 1: Product and Company Identification

Product Name: Pelco Ultra 19 Vacuum Oil

Synonym: None

Company Name

Ted Pella, Inc. and PELCO International, 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: Composition / Information on Ingredients

Principle Component(s) (chemical and common name(s)) (Cas. No)	%	OSHA PEL mg/m ³	ACGIH TLV mg/m ³	NTP	IARC	OSHA regulated
Distillates (Petroleum) Hydro treated heavy Paraffinic Oil (64742-54-7)	100	5*	5*	None	None	None

*as oil mist, mineral

Meets EU requirement of less than 3% (w/w) DMSO extract for total polycyclic aromatic compound (PAC) using IP 346.

Section 3: Hazard Identification

Emergency overview

Appearance: Clear to pale straw yellow liquid.

Immediate effects: Non hazardous in bulk liquid form at low to moderate temperature.

Prolong/repeated skin contact may cause irritation/dermatitis. Heating to high temperature or mechanical actions may produce fumes which may cause irritation of the breathing passages.

Potential health effects

Primary Routes of entry: ND

Signs and Symptoms of Overexposure: ND

Eyes: May cause irritation.

Skin: Prolonged or repeated contact with skin may cause irritation and possible dermatitis.

Ingestion: Low toxicity on ingestion has laxative effect and is rapidly eliminated.
Inhalation: Vapor pressure is very low. Vapor inhalation under ambient conditions is normally not a problem. Inhalation of oil mist or vapors at elevated temperature may cause respiratory irritation. Negligible breathing hazard at normal temperatures (up to 38°C/100°F) or recommended blending temperatures. Elevated temperatures or mechanical action may form vapors, mist and fumes. Inhalation of oil mist or vapors from hot oil may cause irritation to the upper respiratory tract. Oil deposits in the lung may lead to fibrosis and reduced pulmonary functions.

Chronic Exposure: ND

Chemical Listed As Carcinogen Or Potential Carcinogen: No

See Toxicological Information (Section 11)

Potential environmental effects

See Ecological Information (Section 12)

Section 4: First Aid Measures

If accidental overexposure is suspected

Eye(s) Contact: Flush eyes with large amounts of water until irritation subsides. If irritation persists get medical assistance. Keep eyelids open whilst flushing.

Skin Contact: Flush with large amounts of water. Use soap if available.

Inhalation: Using approved respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing has stopped. If breathing is difficult, give oxygen. Keep at rest. Call for prompt medical attention.

Ingestion: If swallowed, do not induce vomiting. Keep at rest. Get prompt medical attention.

Note to physician

Treatment: ND

Medical Conditions generally Aggravated by Exposure: ND

Section 5: Fire Fighting Measures

Flash Point: >213 °C METHOD USED: Cleveland Open Cup

Flammable Limits: ND

Auto-ignition point: 355°C (671°F)

Fire Extinguishing Media: Use water spray to cool surfaces exposed to fire. Extinguish with foam or dry chemical. Avoid spraying water directly into storage containers due to danger of boil over.

Special Fire Fighting Procedures: No special protection required for small outdoor fires. Indoor fires and significant outdoor fires, wear a self-contained breathing apparatus (SCBA) which meets appropriate standards operated in positive pressure mode, and full turn out gear.

Unusual Fire and Explosion Hazards: Containers may explode if exposed to fire.

Hazardous combustion products: Carbon dioxide, carbon monoxide, nitrogen oxides, phosphorus oxides, smoke and irritating fumes as result of incomplete combustion. Direct water stream may cause violent frothing.

DOT Class: Not regulated.

Section 6: Accidental Release Measures

Steps to be Taken in Case Material is Released or Spilled: In case of land spillage: Eliminate sources of ignition. Warn occupants of downwind areas of fire and explosion hazard. Keep public away. Shut off source if possible to do so without hazard. Advise police if substance has entered watercourse or sewer or has contaminated soil or vegetation. Take measures to minimize the effect on ground water. Contain spillage with sand or earth. Remove by pumping (Use explosion proof pump or hand pump) or with a suitable absorbent. If liquid is too viscous for pumping, scrape up with shovels and place in suitable containers for recycle or disposal.

In case of spillage into water: Warn occupants and shipping in downwind areas of fire and explosion hazard and request them to stay clear. Notify port or relevant authority and keep public away. Shut off source if possible to do so without hazard. Remove from surface by skimming or with suitable absorbents. If allowed by local authorities and environmental agencies, sinking and/or suitable dispersants may be used in non-confined waters.

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: Keep away from sources of ignition. Avoid contact with eyes and skin. Practice good hygiene. Wash hands after handling and before eating. Launder work clothes frequently. Do not reuse empty containers without commercial cleaning or reconditioning. Combustible materials should be stored away from extreme heat and strong oxidizing agents. Store in tightly closed containers in cool, dry and well ventilated areas. Electrically earth ground all equipment containing the material.

Storage temperature: Room temperature.

Storage Pressure: ND

Section 8: Exposure Controls / Personal Protection

Engineering Controls

Ventilation required: Ensure good ventilation under all working conditions. Oil mist if generated: TLV (ACGIH) 5mg/m³-8hr TWA, STEL (ACGIH) 10mg/m³, PEL (OSHA) 5 mg/m³-8hr TWA VENTILATION: Good ventilation at source of vapor

Personal Protection Equipment

Respiratory protection: No special respiratory protection is normally required. For high airborne concentrations with inadequate ventilation, use an approved organic vapor cartridge respirator.

Protective gloves: For casual contact PVC gloves are suitable. For direct contact of more than 2 hours, Viton or Nitrile gloves are recommended

Skin protection: Long sleeved clothing is recommended to minimize skin contact.

Eye protection: Chemical splash goggles in case of splashing.

Additional clothing and/or equipment: ND

Hygiene measures: Practice good hygiene. Wash hands after handling and before eating.

Exposure Guidelines

See Composition/Information on Ingredients (Section2)

Section 9 Physical and Chemical Properties

Appearance and Physical State: Pale yellow liquid.

Odor (threshold): Faint petroleum odor.

Specific Gravity (H₂O=1): 0.87 @ 20° C.

Viscosity: 55 cst @ 40 C

Vapor Pressure (mbar) : < .0001 Torr @ 25C

Vapor Density (air=1): Approximately 14

Percent Volatile by volume: Non volatile.

Evaporation Rate (butyl acetate=1): ND

Boiling Point: 112 C @ .01 Torr

Freezing point / melting point: ND

pH: ND

Solubility in Water: Insoluble in cold water.

Molecular Weight: ND

Section 10: Stability and Reactivity

Stability: Stable.

Conditions to Avoid: Excessive heat and formation of oil mist.

Materials to Avoid (Incompatibility): Strong oxidizing agents.

Hazardous Decomposition Products: Carbon dioxide, carbon monoxide, nitrous oxides, phosphorus oxides and smoke on combustion.

Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information

Results of component toxicity test performed: Animal data: Oral Toxicity (rats):

Practically non-toxic (LD50: greater than 2000 mg/kg) Dermal Toxicity (rabbits):

Practically non-toxic (LD50: greater than 2000 mg/kg) Inhalation Toxicity (rats):

Practically non-toxic (LC50: greater than 5 mg/l) Eye Irritation (rabbits): Practically non-irritating. (Draize score: greater than 6 but 15 or less) Skin Irritation (rabbits): Practically non-irritating. (Primary Irritation Index: > than 0.5 but less than 3) Chronic Toxicology:

Product not classified as a carcinogen. It contains less than .3% w/w DMSO extract as measured by IP-346.

Human experience: See Section 3, for comprehensive description for the various toxicological (health) effects which may arise if the user comes into contact with the substance or preparation.

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: This product has the potential for degradation by bacteria over an extended period of time. Based on toxicity of similar products, base oils have none to low acute toxicity towards aquatic organisms. 57-88% of base oils are biodegradable in 28 days. Potential for food chain concentration or accumulation is low. This material is not

expected to present any environmental problems other than those associated with oil spills.

Chemical Fate Information: NIF

Section 13 Disposal Considerations

RCRA 40 CFR 261 Classification: This product is not regulated by CERCLA/RCRA as a hazardous waste or material. Therefore, it may be disposed of as an industrial waste in a manner acceptable to good waste management practice and in compliance with applicable local, state and federal regulations.

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 as dangerous under transport regulations.

IATA: Proper shipping name: Not regulated as dangerous under transport regulations.

IMO: Proper shipping name: Not regulated as dangerous under transport regulations.

Marine Pollutant: No

Canadian TDG: Not regulated as dangerous under transport regulations.

Section 15: Regulatory Information

United States Federal Regulations

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

SARA: No

SARA Title III: This product does not contain toxic chemicals subject to the reporting requirements of the section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) of 1986 and 40 CFR Part 372.

RCRA: No

TSCA: This material is in compliance with the TOXIC SUBSTANCE CONTROL ACT (15 USC 2601-2629) and is listed in the TSCA Inventory.

CERCLA: No

State Regulations

California Proposition 65: None

International Regulations

Canada WHMIS: Not Classified.

This material is on the Domestic Substances List (DSL-Canada)

Europe EINECS Numbers: ND

European Regulatory Information: Meets EU requirement of less than 3% (w/w) DMSO extract for total polycyclic aromatic compound (PAC) using IP 346.

Section 16: Other Information

Label Information: NA

European Risk and Safety Phrases: NA

European symbols needed: None

Canadian WHMIS Symbols: NA

NFPA Hazard Rating: Health: **1**; Fire: **1**; Instability: **0**
HMIS® Hazard Rating: Health: **1**; Fire: **1**; Reactivity: **0**
(0=least, 1=Slight, 2=Moderate, 3=High, 4=Extreme)

Abbreviations used in this document

NE= Not established

NA= Not applicable

NIF= No Information Found

ND= No Data

Disclaimer

Ted Pella, Inc. makes no warranty of any kind regarding the information furnished herein. Users should independently determine the suitability and completeness of information from all sources. While this data is presented in good faith and believed to be accurate, it should be considered only as a supplement to other information gathered by the user. It is the User's responsibility to assure the proper use and disposal of these materials as well as the safety and health of all personnel who may work with or otherwise come in contact with these materials.