TED PELLA, INC.
Microscopy Products for Science and Industry

Safety Data Sheet

Product No. 19244 Pioloform
Issue Date (03-24-14)
Review Date (04-17-15)

Section 1: Product and Company Identification
Product Name: Pioloform
Synonym: Pioloform FN 65
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:

Irritant

GHS Categories: **Classification according to Regulation (EC) No 1272/2008:**
GHS07: Irritant

Signal Word: Warning

Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H335 May cause respiratory irritation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC:
Xi; Irritant
R36/37/38: Irritating to eyes, respiratory system and skin.
Information concerning particular hazards for human and environment:
Low hazard for usual industrial or commercial handling by trained personnel. Exposure to powder or dusts may be irritating to eyes, nose and throat.

Health Effects:
NFPA Hazard Rating: Health: ND; Fire: ND; Reactivity: ND
HMIS® Hazard Rating: Health: ND; Fire: ND; Reactivity: ND
(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: ND
vPvB: ND

Emergency overview:

Appearance: Off-white powder.
Immediate effects: Irritation.

Potential health effects

Primary Routes of entry: Eye and skin contact, inhalation.
Signs and Symptoms of Overexposure: Coughing.
Eyes: Dust or powder may irritate eye tissue.
Skin: Dust or powder may irritate the skin.
Ingestion: No harmful effects expected in amounts likely to be ingested by accident.
Inhalation: Inhalation of dusts may cause respiratory irritation.
Chronic Exposure: Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases. Prolonged and repeated overexposure to dust can lead to pneumoconiosis.
Chemical Listed As Carcinogen Or Potential Carcinogen: No
See Toxicological Information (Section11)

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/m3**	**ACGIH TLV mg/m3**	**NTP** Carcinogen	**IARC** Carcinogen	**OSHA regulated** Carcinogen
Pioloform (Polivinyl acetal) (70775-95-0)	>97			No	No	No

Section 4: First Aid Measures

If accidental overexposure is suspected

Eye(s) Contact: Do not rub eye. Rinse with water. Get medical attention if irritation develops and persists.
Skin Contact: Rinse skin with water. Get medical attention if irritation develops and persists.
Inhalation: If dust from the material is inhaled, remove the affected person immediately to fresh air. Call a physician if symptoms develop or persist.
Ingestion: Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.

Note to physician

Treatment: Provide general supportive measures and treat symptomatically.
Medical Conditions generally Aggravated by Exposure: Pre-existing skin and respiratory conditions including dermatitis, asthma and chronic lung disease might be aggravated by exposure.

Section 5: Fire Fighting Measures
Flash Point: Product is not flammable.
Flammable Limits: ND
Auto-ignition point: ND
Fire Extinguishing Media: The product is not flammable. The product may form dust and can accumulate electrostatic charges, which may cause an electrical spark (ignition source). Use proper grounding procedures. Use fire-extinguishing media appropriate for surrounding materials. Do not use a solid water stream as it may scatter and spread fire.
Special Fire Fighting Procedures: Use standard firefighting procedures and consider the hazards of other involved materials. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Unusual Fire and Explosion Hazards: ND
Hazardous combustion products: During fire, gases (carbon oxides) hazardous to health may be formed.
DOT Class: Not regulated.

Section 6: Accidental Release Measures
Steps to be Taken in Case Material is Released or Spilled: Avoid inhalation of dust and contact with skin and eyes. Wear appropriate personal protective equipment.
Environmental precautions: Environmental manager must be informed of all major spillages.
Methods and material for containment and cleaning up: Ensure adequate ventilation. Avoid dust formation. Collect dust or particulates using a vacuum cleaner with a HEPA filter. Do not use compressed air when cleaning. For waste disposal, see Section 13 of the MSDS.
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: Avoid inhalation of dust and contact with skin and eyes. Wear appropriate personal protective equipment. Wash hands after handling. Observe good industrial hygiene practices. Maintenance: Use work methods which minimize dust production. Use only in well-ventilated areas. Take precautionary measures against static discharges when there is a risk of dust explosion.
Requirements to be met by storerooms and receptacles: Keep in original container. Store in a cool, dry, well-ventilated place. Store away from incompatible materials. Read and follow manufacturer's recommendations.
Storage temperature: Room temperature, keep container tightly sealed.
Storage Pressure: ND

Section 8: Exposure Controls / Personal Protection

Engineering Controls

Ventilation required: Provide sufficient ventilation for operations causing dust formation. Follow above occupational exposure limit values for dusts. Ventilate as needed to control airborne dust. Use explosion-proof electrical equipment if airborne dust levels are high.

Personal Protection Equipment

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Avoid contact with the eyes and skin. Handle in accordance with good industrial hygiene and safety practice. Routinely wash work clothing and protective equipment to remove contaminants.

Respiratory protection: Use a NIOSH/MSHA approved air purifying respirator as needed to control exposure. Consult with respirator manufacturer to determine respirator selection, use, and limitations. Use positive pressure, air-supplied respirator for uncontrolled releases or when air purifying respirator limitations may be exceeded. Follow respirator protection program requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator use.

Protective gloves: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves: 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.

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.

Skin protection: Wear suitable protective clothing. It is a good industrial hygiene practice to minimize skin contact. For prolonged or repeated skin contact use suitable protective gloves.

Eye protection: Tightly sealed goggles.

Additional clothing and/or equipment: ND

Exposure Guidelines

See Composition/Information on Ingredients (Section 3)

Section 9 Physical and Chemical Properties

Appearance and Physical State: Off white powder.

Odor (threshold): Odorless.

Specific Gravity (H_2O=1): 1.22 gm/cm3

Vapor Pressure (mm Hg): ND

Vapor Density (air=1): ND

Percent Volatile by volume: < 2.5 % w/w

Evaporation Rate (butyl acetate=1): ND

Boiling Point: ND

Freezing point / melting point: 200°C

pH: ND

Solubility in Water: Insoluble
Molecular Weight: ND

Section 10: Stability and Reactivity
Stability: Stable under normal conditions.
Conditions to Avoid: Contact with incompatible materials. Avoid dust close to ignition sources.
Materials to Avoid (Incompatibility): Strong oxidizing agents, strong acids.
Hazardous Decomposition Products: None if used according to specifications.
Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information
Results of component toxicity test performed: Dusts or powder may irritate the respiratory tract, skin and eyes.
Acute toxicity:
Specific symptoms in biological assay: Dust may irritate throat and respiratory system and cause coughing. Direct contact with eyes may cause temporary irritation.
Primary irritant effect:
· on the skin: Irritant to skin and mucous membranes.
· on the eye: Irritating effect.
Sensitization: Not a skin sensitizer.
Sub-acute to chronic toxicity: Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases. Prolonged and repeated overexposure to dust can lead to pneumoconiosis. Pre-existing skin and respiratory conditions including dermatitis, asthma and chronic lung disease might be aggravated by exposure to this product.
Additional toxicological information: Pre-existing skin and respiratory conditions including dermatitis, asthma and chronic lung disease might be aggravated by exposure.
Repeated dose toxicity: Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.
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: The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Aquatic toxicity: No further relevant information available.
Persistence and degradability: No further relevant information available.
Behavior in environmental systems:
Bio accumulative: potential No further relevant information available.
Mobility in soil: No further relevant information available.
Chemical Fate Information: ND

Section 13 Disposal Considerations
RCRA 40 CFR 261 Classification: None. Dispose of in accordance with local 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.
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: Substance is not listed.
SARA Title III: Substance is not listed.
RCRA: Not listed.
TSCA: All components are listed.
CERCLA: Not listed.
State Regulations
California Proposition 65: Substance is not listed.
International Regulations
Canada WHMIS: ND
Europe EINECS Numbers: ND

Section 16: Other Information
Label Information: Irritant
European Risk and Safety Phrases: R36/37/38 – Irritating to eyes, respiratory system and skin.
European symbols needed: Xi
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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