



Safety Data Sheet

Product No. 16021 PELCO® SEM-Gold/Silver

Thinner/Extender

Issue Date (12-06-14)

Review Date (12-19-14)

Section 1: Product and Company Identification

Product Name: PELCO® SEM-Gold/Silver Thinner/Extender

Synonym: Propylene glycol methyl ether, Propylene glycol monomethyl ether

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:



Signal Word: Warning

GHS Categories:

H226 Flammable liquid and vapor.

H336 May cause drowsiness or dizziness.

P261 Avoid breathing vapors.

Classification according to Regulation (EC) No 1272/2008

Flammable liquids (Category 3), H226

Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336

For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

R10 Flammable

R67 Vapors may cause drowsiness and dizziness.

Health Effects:

HMIS® Hazard Rating: Health: **2**; Flammability: **3**; Physical hazards: **0**;

NFPA Hazard Rating: Health: **2**; Fire: **3**; Reactivity: **0**

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

Results of PBT and vPvB assessment: Results assessment not available as chemical safety assessment not required/not conducted

PBT: ND

vPvB: ND

Emergency overview

Appearance: Clear liquid

Immediate effects: May cause drowsiness or dizziness.

Potential health effects

Primary Routes of entry: Eyes, skin, ingestion, and inhalation

Signs and Symptoms of Overexposure: ND

Eyes: Flush eyes with water as a precaution.

Skin: Wash off with soap and plenty of water. Consult a physician.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Chronic Exposure:

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/m3	ACGIH TLV mg/m3	NTP	IARC	OSHA regulated
Monopropylene glycol methyl ether (107-98-2) EC-No. 203-539-2 Index-No 603-064-00-3	≤100%	100 ppm 375 mg/m3	NE	No	No	No
2-Methoxypropanol (1589-47-5) EC-No. 216-455-5 Index-No. 603-106-00-0	< 0.5	NE	NE	No	No	No

Hazardous ingredients according to Regulation (EC) No 1272/2008,

2-Methoxypropanol: Classification: Flam. Liq. 3; Skin Irrit. 2; Eye Dam. 1; Repr. 1B; STOT SE 3;

H226, H315, H318, H335, H360D

Monopropylene glycol methyl ether: Classification: Flam. Liq. 3; STOT SE 3; H226, H336

Section 4: First Aid Measures

If accidental overexposure is suspected

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance.

Eye(s) Contact: Flush eyes with water as a precaution.

Skin Contact: Wash off with soap and plenty of water. Consult a physician.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Note to physician

Treatment: ND

Medical Conditions generally Aggravated by Exposure: ND

Section 5: Fire Fighting Measures

Flash Point: 34 °C - closed cup

Flammable Limits: Upper explosion limit: 16 %(V); Lower explosion limit: 1.8 %(V)

Auto-ignition point: ND

Fire Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special Fire Fighting Procedures: Flash back possible over considerable distance, Container explosion may occur under fire conditions. Vapors may form explosive mixture with air. Wear self-contained breathing apparatus for firefighting if necessary. Use water spray to cool unopened containers.

Unusual Fire and Explosion Hazards: May form peroxides of unknown stability.

Hazardous combustion products: Oxides of Carbon.

DOT Class: Flammable

Section 6: Accidental Release Measures

Steps to be taken in Case Material is Released or Spilled: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations

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 exposure - obtain special instructions before use. Avoid inhalation of vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are

opened must be carefully resealed and kept upright to prevent leakage. Air sensitive, forms explosive peroxides on prolonged storage May form peroxides on contact with air.
Storage temperature: Store in cool place.
Storage Pressure: NA

Section 8: Exposure Controls / Personal Protection

Engineering Controls

Ventilation required:

Personal Protection Equipment

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

Protective gloves: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Skin protection: Impervious clothing, flame retardant antistatic protective clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Eye protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards.

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: Clear liquid

Odor (threshold): ND

Specific Gravity (H₂O=1): ND

Vapor Pressure (mm Hg): 14.5 hPa at 25 °C

Vapor Density (air=1): 3.11 - (Air = 1.0)

Percent Volatile by volume: ND

Evaporation Rate (butyl acetate=1): ND

Boiling Point: 118 - 119 °C - lit.

Freezing point / melting point: ND

pH: ND

Solubility in Water: Completely miscible

Molecular Weight: ND

Section 10: Stability and Reactivity

Stability: May form peroxides on prolonged storage. Date container and periodically test

for peroxides. Stable under recommended storage conditions.
Conditions to Avoid: Heat, flames and sparks.
Materials to Avoid (Incompatibility): Strong oxidizing agents
Hazardous Decomposition Products: ND
Hazardous Polymerization: ND

Section 11: Toxicological Information

Results of component toxicity test performed:

Human experience:

Acute toxicity

LD50 Oral - mouse - 11,700 mg/kg

Remarks: Behavioral: Convulsions or effect on seizure threshold. Behavioral: Ataxia.

Lungs, Thorax, or Respiration: Dyspnea.

LC50 Inhalation - rat - 5 h - 10000 ppm

LD50 Dermal - rabbit - 13,000 mg/kg

Skin corrosion/irritation

Skin – rabbit Result: Open irritation test

Serious eye damage/eye irritation

Eyes – rabbit Result: Mild eye irritation - 24 h

Respiratory or skin sensitisation: ND

Germ cell mutagenicity: ND

Carcinogenicity: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity: ND

Specific target organ toxicity - single exposure: May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure: ND

Aspiration hazard: 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: ND

Chemical Fate Information: ND

Section 13 Disposal Considerations

RCRA 40 CFR 261 Classification: ND

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: 1-Methoxy-2-propanol

Hazard Class: 3

Packaging group: III

UN Number: UN3092

IATA: Proper shipping name: 1-Methoxy-2-propanol

Hazard Class: 3

Packaging group: III

UN Number: UN3092

Canadian TDG: Proper shipping name: 1-Methoxy-2-propanol

Marine Pollutant: No

Section 15: Regulatory Information

United States Federal Regulations

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

SARA: ND

SARA Title III: ND

RCRA: ND

TSCA: All ingredients are listed

CERCLA: None listed

State Regulations

California Proposition 65: ND

International Regulations

Canada WHMIS: ND

Europe EINECS Numbers: ND

Section 16: Other Information

Label Information: Flammable

European Risk and Safety Phrases: R10 Flammable, R67 Vapors may cause drowsiness and dizziness

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

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.