

Safety Data Sheet

Product No. 16021 PELCO[®] SEM-Gold/Silver Thinner/Extender

Issue Date (02-26-15)

Review Date (08-31-17)

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

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:



Flammable

Health Hazard

Irritant

Signal Word: Danger

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):

H226 Flammable liquids (Category 3)

H360 Reproductive toxicity (Category 1B)

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

Hazard Statements:

H226 Flammable liquid and vapor.
H336 May cause drowsiness or dizziness.
H360 May damage fertility or the unborn child

Precautionary Statements:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ eye protection/ face protection.
P281 Use personal protective equipment as required.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS - none

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: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: ND

Inhalation: May cause drowsiness or dizziness.

Chronic Exposure: May damage fertility or the unborn child.

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 Flam. Liq. 3; STOT SE 3; H226, H336	≤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 Flam. Liq. 3; Skin Irrit. 2; Eye Dam. 1; Repr. 1B; STOT SE 3; H226, H315, H318, H335, H360	≥ 0.1 - < 1		NE	NE	No	No	No
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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: Wear self-contained breathing apparatus for firefighting if necessary. Use water spray to cool unopened containers.

Unusual Fire and Explosion Hazards: Carbon Oxides. Flash back possible over considerable distance, Container explosion may occur under fire conditions. Vapors may form explosive mixture with air. 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: ND

Section 8: Exposure Controls / Personal Protection

Engineering Controls

Ventilation required: Good general ventilation.

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): 0.922 g/cm³ at 25 °C (77 °F)

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

Vapor Density (Air =1): 3.11 Relative

Percent Volatile by volume: ND

Evaporation Rate (butyl acetate=1): ND

Boiling Point: 118 - 119 °C (244 - 246 °F) - 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: ND

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: None.

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contact a licensed professional waste disposal service to dispose of this material. 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

Poison Inhalation Hazard: No

Section 15: Regulatory Information**United States Federal Regulations**

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

SARA 302: None of the ingredients are listed.

SARA Title 313: None of the ingredients are listed.

SARA 311/312 Hazards: Fire Hazard, Acute Health Hazard, Chronic Health Hazard:

Massachusetts Right To Know Components: Monopropylene glycol methyl ether CAS-No. 107-98-2 Revision Date 1994-04-01.

Pennsylvania Right To Know Components: Monopropylene glycol methyl ether CAS-No. 107-98-2 Revision Date 1994-04-01.

New Jersey Right To Know Components: Monopropylene glycol methyl ether CAS-No. 107-98-2 Revision Date 1994-04-01.

RCRA: None listed.

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

CERCLA: None listed.

State Regulations

California Proposition 65: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

International Regulations

Canada WHMIS: ND

Europe EINECS Numbers: Monopropylene glycol methyl ether (107-98-2)

EC-No. 203-539-2. 2-Methoxypropanol (1589-47-5) EC-No. 216-455-5.

Section 16: Other Information

Label Information: See section 2

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.