TED PELLA, INC.
Microscopy Products for Science and Industry

Material Safety Data Sheet
Product No. 19920 PELCO® Pro Cyanoacrylate Debonder

Issue Date (10-02-03)
Review Date (06-01-12)

Section 1: Product and Company Identification

Product Name: PELCO® Pro Cyanoacrylate Debonder
Synonym: None
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: 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
Nitromethane (75-52-5)	>80	250	50	No *	2B	Yes

* Some evidence of carcinogenicity was noted in NTP tests. The effects were mammary tumors in female rats and benign haderian gland tumors in mice.

Section 3: Hazard Identification

Emergency overview
Appearance: Clear Liquid.
Immediate effects: Onset of symptoms from any route of exposure may be delayed.
Potential health effects
Primary Routes of entry: Skin, inhalation, ingestion
Signs and Symptoms of Overexposure: Liquid-Prolong exposure can lead to mild irritation due to de-fatting.
Eyes: May cause irritation and corneal damage.
Skin: May cause irritation, redness, and pain. May be absorbed through skin with symptoms similar to those from inhalation.
Ingestion: Only slightly Toxic by ingestion.
Inhalation: Vapors may cause irritation to respiratory tract. A weak narcotic, higher concentrations may cause nausea, vomiting, diarrhea, and headaches.
Chronic Exposure: Repeated or prolonged skin exposure may cause dermatitis. Prolonged inhalation of vapors may cause liver damage.
Chemical Listed As Carcinogen Or Potential Carcinogen: Nitromethane (75-52-5)

See Toxicological Information (Section11)
Potential environmental effects
See Ecological Information (Section 12)

Section 4: First Aid Measures
If accidental overexposure is suspected
Eye(s) Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.
Skin Contact: Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Inhalation: Remove to fresh air. Call a physician, who may check for increased methemoglobin content.
Ingestion: Induce vomiting by giving victim 2 glasses of water and having him place a finger down the throat. Never give anything by mouth to an unconscious person.
Note to physician
Treatment: NIF
Medical Conditions generally Aggravated by Exposure: Persons with pre-existing skin disorders, or impaired liver, or pulmonary function may be more susceptible to the effects of this substance.

Section 5: Fire Fighting Measures
Flash Point: 96 ºF. 35 ºC (method used C.O.C.)
Flammable Limits: LEL = 7.3% UEL = N/A
Auto-ignition point: 418 ºC (784 ºF) for nitromethane
Fire Extinguishing Media: Carbon Dioxide, dry chemicals, water.
Special Fire Fighting Procedures: Wet down tank and containers to prevent pressure and heat build-up.
Unusual Fire and Explosion Hazards: Sensitized by amines, alkalis, acids: can detonate by adiabatic compression. Dry alkali or amine salts are explosives.
Hazardous combustion products: Burning may produce carbon monoxide, carbon dioxide, nitrogen oxides.
DOT Class: Flammable liquid.

Section 6: Accidental Release Measures
Steps to be Taken in Case Material is Released or Spilled: Evacuate area and remove potential sources of spark or flame. Properly protected personnel may then attempt to contain large spills and pump to salvage. Absorb unrecoverable spills with an inert solid such as sand or earth. Flush area with water.
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 heat and flame. Protect from high energy impacts. Keep away from children. Shelf Life: Twelve months in original sealed container.

Storage temperature: Store in a cool, dry well-ventilated location.
Storage Pressure: NA

Section 8: Exposure Controls / Personal Protection
Engineering Controls
Ventilation required: Use chemical fume hood. General ventilation with local exhaust in areas of high vapor concentrations.
Personal Protection Equipment
Respiratory protection: Air supplied respiration or self-contained breathing apparatus in area of high vapor concentration. Do not use canister type face mask because break through is not easily detected.
Protective gloves: Rubber Gloves.
Skin protection: Rubber Apron.
Eye protection: Safety Glasses.
Additional clothing and/or equipment: NIF
Exposure Guidelines
See Composition/Information on Ingredients (Section2)

Section 9 Physical and Chemical Properties
Appearance and Physical State: Clear liquid.
Odor (threshold): Mild characteristic odor.
Specific Gravity (H_2O=1): 1.124. 1.229
Vapor Pressure (mm Hg): 27.3 (mm Hg @ 68ºF or 20ºC)
Vapor Density (air=1): 2.1
Percent Volatile by volume: 100%

Evaporation Rate (butyl acetate=1): 100-139
Boiling Point: 213ºF - 101ºC
Freezing point / melting point: ND
pH: NA
Solubility in Water: 10.5 % by weight @ 68F 0r 20ºC
Molecular Weight: ND

Section 10: Stability and Reactivity
Stability: Stable.
Conditions to Avoid: Shock under heavy confinement. Adiabatic compression.
Sensitization: Do not trap between closed valves or use positive displacement pumps to discharge nitromethane.
Materials to Avoid (Incompatibility): Lead, copper, their alloys-amines, strong alkalis, strong acids.
Hazardous Decomposition Products: ND
Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information
Results of component toxicity test performed: Nitromethane (75-52-5): Oral rat LD50: 940 mg/kg

Human experience: ND
This product **does** contain compounds listed by NTP or IARC or regulated by OSHA as a carcinogen. Nitromethane (75-52-5)

Section 12: Ecological Information
Ecological Information: Nitromethane (75-52-5): When released into the soil, this material may leach into groundwater. When released into the soil, this material is expected to quickly evaporate. When released into water, this material is not expected to biodegrade. When released into water, this material may evaporate to a moderate extent. When released into water, this material is expected to have a half-life between 10 and 30 days. This material has an experimentally-determined bioconcentration factor (BCF) of less than 100. This material has a log octanol-water partition coefficient of less than 3.0. This material is not expected to significantly bioaccumulate. When released into the air, this material is expected to be readily degraded by photolysis. When released into the air, this material is expected to have a half-life of less than 1 day.
Chemical Fate Information: ND

Section 13 Disposal Considerations
RCRA 40 CFR 261 Classification: For the purposes of disposal, Nitromethane is classified by EPA as a hazardous waste. Undiluted material is EPA Hazardous Waste Number D001 characteristic of ignitability.
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: Nitromethane
Hazard Class: 3
Packaging group: II
UN Number: UN 1261
IATA: Proper shipping name: Nitromethane
Hazard Class: 3
Packing group: II
UN Number: UN1261
Limitations: Air Cargo Only
IMO: Proper shipping name: Nitromethane
Class: 3
UN Number: UN1261
Packing group: II
Marine Pollutant: No
Canadian TDG: Proper shipping name: Nitromethane

Section 15: Regulatory Information
United States Federal Regulations
MSDS complies with OSHA's Hazard Communication Rule 29, CFR 1910.1200.
SARA: 311/312: Acute: Yes. Chronic: Yes. Fire: Yes. Pressure: No. Reactivity: Yes (Pure / Liquid)

SARA Title III: 302/304: None. 313: None
RCRA: No
TSCA: 8(d): No
CERCLA: No

State Regulations

California Proposition 65: Nitromethane (75-52-5) is known by the state of California to cause cancer

International Regulations

Canada WHMIS: This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.
Europe EINECS Numbers: ND

Section 16: Other Information

Label Information: Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Avoid contact with eyes, skin and clothing. Avoid breathing vapor.
European Risk and Safety Phrases: ND
European symbols needed: ND
Canadian WHMIS Symbols: ND
HMIS Hazard Rating: Health: **1**; Flammability: **3**; Reactivity: **3**
(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.