TED PELLA, INC.
Microscopy Products for Science and Industry

Safety Data Sheet

Product No. 14462 Pelco® Pro F5 Cyanoacrylate Glue
Issue Date (05-01-15)
Review Date (08-31-17)

Section 1: Product and Company Identification

Product Name: Pelco® Pro F5 Cyanoacrylate Glue
Synonym: Super Glue, Instant Adhesive
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

2.1 Classification of the substance or mixture

GHS Pictograms

GHS07

GHS Categories
GHS07 – Irritant

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

2.2 Label elements

Hazard Pictograms

GHS07

Signal Word: Warning

Hazard statements
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H315 Causes skin irritation.

Precautionary statements

P233	Keep container tightly closed.
P280	Wear protective gloves/protective clothing/eye protection/ face protection.

P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+313	If skin irritation occurs: Get medical advice/attention.
P403	Store in a well-ventilated place.
P501	Dispose of contents/container as hazardous or special waste.

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

Results of PBT and vPvB assessment: The PBT and vPvB criteria do not apply to ethyl-2-cyanoacrylate.
PBT: NA
vPvB: NA

Classification of the product according to DSD (67/548/EC)
Xi IRRITANT R 36/37/38 Irritating to eyes, respiratory system and skin

Emergency overview
Appearance: Colorless liquid.
Immediate effects: Bonds skin rapidly and strongly.
Potential health effects
Primary Routes of entry: ND
Signs and Symptoms of Overexposure: Vapor is irritating to eyes and mucous membranes above TLV. Prolonged and repeated overexposure to vapors may produce allergic reactions with asthma like symptoms in sensitive individuals.
Eyes: Eye irritant. Vapor is irritating to eyes.
Skin: Skin irritant.
Ingestion: It is almost impossible to swallow Cyanoacrylate. The adhesive solidifies and adheres in the mouth.
Inhalation: Vapor is irritating mucous membranes above TLV.
Chronic Exposure: ND
Chemical Listed As Carcinogen Or Potential Carcinogen: None
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** Carcinogen	**IARC** Carcinogen	**OSHA regulated** Carcinogen
Ethyl-2-Cyanoacrylate (7085-85-0) EC-No. 230-391-5 Index No. 607-236-00-9 H319; H335; H315	80-99%	ND	ND	No	No	No

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Section 4: First Aid Measures

If accidental overexposure is suspected

General:	Contact a POISON CENTER or doctor/physician if you feel unwell.
Eye(s) Contact:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If the eye is bonded closed, release eyelashes with warm water by covering with wet pad. Cyanoacrylate will bond to eye protein and will cause periods of weeping which will help to de-bond the adhesive. Keep eye covered until de-bonding is complete, usually within 1-3 days. Medical advice should be sought in case solid particles of cyanoacrylate trapped behind the eyelid cause an abrasive damage.
Skin Contact:	IF ON SKIN: Wash with plenty of soap and water. Do not pull bonded skin apart. It may be gently peeled apart using a blunt object such as a spoon, preferably after soaking in warm soapy water. Cyanoacrylates give off heat on solidification. In rare cases a large drop will generate enough heat to cause a burn. Burns should be treated normally after the adhesive has been removed from the skin. If lips are accidentally stuck together apply warm water to the lips and encourage maximum wetting and pressure from saliva inside the mouth. Peel or roll lips apart. Do not try to pull the lips apart with direct opposing action. If skin irritation occurs: Get medical advice/attention.
Inhalation:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If still feeling unwell, seek medical attention.
Ingestion:	Ensure that breathing passages are not obstructed. The product will polymerize immediately in the mouth making it almost impossible to swallow. Saliva will slowly separate the solidified product from the mouth (several hours).

Note to physician

Treatment: ND

Medical Conditions generally Aggravated by Exposure: ND

Section 5: Fire Fighting Measures

Flash Point: 82.5°C

Flammable Limits: ND

Auto-ignition point: 480ºC

Fire Extinguishing Media: Dry powder, foam, carbon dioxide, fine water spray.

Unsuitable agents: Water jet.

Special Fire Fighting Procedures: Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and suitable protective clothing.

Unusual Fire and Explosion Hazards:

Hazardous combustion products: Trace amounts of toxic fumes may be released on incineration. Hazardous combustion products: oxides of carbon, oxides of nitrogen, irritating organic vapors.

DOT Class: Unrestricted, combustible liquid.

Section 6: Accidental Release Measures

Steps to be Taken in Case Material is Released or Spilled:

Personal precautions, protective measures, and emergency procedures

Ensure adequate ventilation. Wear protective gloves/protective clothing/eye protection/face protection. Avoid skin and eye contact. Avoid breathing dust/fumes/gas/mist/vapors/spray.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and clean-up

Flood area with water to polymerize (cure) and scrape off the floor. Soak up with an inert absorbent. Incinerate, or solid adhesive can be land filled in accordance with all applicable federal, state and local environmental regulations.

Dispose of waste according to federal, state and local regulations.

Section 7: Handling and Storage

Precautions to be taken in Handling and Storage:

Handling:	Avoid breathing dust/fumes/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Ventilation (low level) is recommended when using large volumes. Use of dispensing equipment is recommended to minimize the risk of skin or eye contact. Wash hands thoroughly after handling.
Storage:	For optimum shelf life store in original containers under refrigerated conditions and out of direct sunlight. Store locked up.
Storage temperature:	2-8ºC
Storage Pressure:	NA

Section 8: Exposure Controls / Personal Protection

Engineering Controls

Ventilation required: Provide adequate ventilation in area of use. Do NOT use this product in an enclosed or poorly ventilated area. Local exhaust ventilation with cross air movement is normally required when handling or using this product to keep airborne powder below the nationally authorized limits. Vent downwards, as vapors are heavier than air. If ventilation alone cannot control exposure, respiratory protection must be used.

Control Parameters

Exposure limit values

Country	Type	Value
UK	STEL	0.3 ppm; 1.5 mg/m^3 (15 min)
Ireland	OEL/TWA	0.2 ppm
Germany	MAK	None established
France	VME/VLE	None established

Derived DNEL(s) / DMEL(s)

Type	Details	Value	Basis
Worker – inhalation route	Systemic effect – long term exposure	9.25 mg/m^3	Irritation (respiratory tract)
Worker – inhalation route	Local effect – long term exposure	9.25 mg/m^3	Irritation (respiratory tract)
General population – inhalation route	Systemic effect – long term exposure	9.25 mg/m^3	Irritation (respiratory tract)
General population – inhalation route	Local effect – long term exposure	9.25 mg/m^3	Irritation (respiratory tract)

Personal Protection Equipment

Respiratory protection: Local exhaust, cross air movement.
Protective gloves: Polyvinyl chloride or nitrile rubber gloves or equivalent solvent-resistant gloves recommended where there is potential for prolonged or repeated skin contact.
Skin protection: Protective clothing.
Eye protection: Safety goggles.
Additional clothing and/or equipment: Eye bath and washing station nearby.
Hygiene: Take off contaminated clothing and wash before reuse. Wash hands thoroughly after handling.

Exposure Guidelines

See Composition/Information on Ingredients (Section 3)

Section 9 Physical and Chemical Properties

Appearance and Physical State: Transparent, colorless liquid.
Odor (threshold): Pungent (ND)
Specific Gravity (H2O=1): 1.043
Vapor Pressure (mm Hg): ≤ 21 Pa
Vapor Density (air=1): ND
Percent Volatile by volume: ND

Evaporation Rate (butyl acetate=1): ND
Boiling Point: 214°C
Melting point: -31ºC
pH: NA
Solubility in Water: ≤ 0.024 mg/L (polymerizes in water)
Molecular Weight: NA

Section 10: Stability and Reactivity
Stability: Stable under normal conditions of use.
Conditions to Avoid: Moisture, humidity, basic material.
Materials to Avoid (Incompatibility): Water, soil, amines, alkalis, alcohols.
Hazardous Decomposition Products: Oxides of carbon, oxides of nitrogen.
Possibility of hazardous reactions: Polymerization will occur in the presence of moisture and other basic materials.

Section 11: Toxicological Information
Results of component toxicity test performed:

Acute toxicity:	Oral: LD50 (Rat) >5000 mg/kg (OECD 401) Dermal: LD50 (Rabbit) 2000 mg/kg (OECD 402)
Skin corrosion/irritation:	Causes skin irritation
Eye damage/irritation:	Irritating to eyes. In a dry atmosphere (RH<50%) vapors may cause irritation and lachrymatory effect.
Respiratory/skin sensitization:	Due to polymerization at the skin surface, allergic reaction is not considered possible. The polymerized material is not able to penetrate into the epidermis.
Germ cell mutagenicity:	None.
Carcinogenicity:	None.
Reproductive toxicity:	None.
STOT-single exposure:	May cause irritation for skin, eyes and respiratory system.
STOT-repeated exposure:	Not toxic by repeated absorption.

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: Low ecotoxicity.
Persistence and biodegradability: NA
Bioaccumulative potential: NA
Motility in soil: NA
Chemical Fate Information: ND

Section 13 Disposal Considerations
RCRA 40 CFR 261 Classification: ND
Product disposal:
Cured adhesive: Dispose of as water insoluble non-toxic solid chemical in authorized landfill or incinerate under controlled conditions.
Dispose of in accordance with local and national regulations. Polymerize by adding slowly to water (10:1). Contribution of this product to waste is very insignificant in comparison to article in which it is used.

Disposal of uncleaned packages:
After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorized legal land fill site or incinerated. Disposal must be made according to official 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: Unrestricted, combustible liquid.
IATA: Proper shipping name: Unrestricted, combustible liquid.
IMO: Proper shipping name: Unrestricted, combustible liquid.

Marine Pollutant: NO
Canadian TDG: Unrestricted, combustible liquid

Section 15: Regulatory Information
United States Federal Regulations
SDS complies with OSHA's Hazard Communication Rule 29, CFR 1910.1200.
SARA: None
SARA Title III: None
RCRA: None
TSCA: All components listed
CERCLA: None
State Regulations
California Proposition 65: None
International Regulations
Canada WHMIS: ND
Europe EINECS Numbers: ND

Section 16: Other Information
Label Information: Irritant.
European Risk and Safety Phrases: ND
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

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