

SAFETY DATA SHEET

This Safety Data Sheet has been prepared to comply with the EU Regulation No. 1907/2006 and 2015/830.

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

1.1 Product Identifier:

Trade Name: PROSEAL FUTURE GLUE GEL 2GM (12)

Part Number: 11720038_N50105

SDS Date of Preparation: August 10, 2015

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against:

Product Use: Cyanoacrylate adhesive product.

Uses Advised Against: None known

1.3 Details of the Supplier of the Safety Data Sheet:

Manufacturer: Pacer Technology
3281 E. Guasti Rd., Suite 260
Ontario, CA 91761

Information Phone Number: (909) 987-0550

E-mail: info@pacertechnology.com

1.4 Emergency Telephone Number:

Emergency Spill Information: CHEMTREC Domestic North America: (800) 424-9300
CHEMTREC International: (703) 527-3887

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture:

GHS/CLP Regulation (EC) No 1272/2008:

Physical	Health	Environment
Not Classified	Carcinogen Category 2 (H351) Eye Irritant Category 2 (H319) Skin Irritant Category 2 (H315) Specific Target Organ Toxicity Single Exposure Category 3 (H335)	Aquatic Chronic Toxicity Category 3 (H412)

2.2 Label Elements:

Warning!



Contains: Ethyl 2-Cyanoacrylate

Hazard Phrases

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H412	Harmful to aquatic life with long lasting effects.
EUH202	Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.
EUH208	Contains Hydroquinone. May produce an allergic reaction.

Precautionary Phrases

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P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P271	Use only outdoors or in a well-ventilated area.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P308 + P313	IF exposed or concerned: Get medical attention.
P405	Store locked up.
P501	Dispose of contents and container in accordance with local and national regulations.

2.3 Other Hazards: None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture:

Chemical Name	CAS#	EINECS#	CLP Annex VI Classification	%
Ethyl 2-Cyanoacrylate	7085-85-0	230-391-5	Eye Irrit. Cat 2 (H319), Skin Irrit. Cat 2 (H315), STOT SE Cat 3 (H335)	60-100
Hydroquinone	123-31-9	204-617-8	Acute Tox. Cat 4 (H302), Eye Dam. Cat 1 (H318), Skin Sens. Cat 1B (H317), Muta. Cat 2 (H341), Carc. Cat 2 (H351), Aquatic Acute Cat 1 (H400), Aquatic Chronic Cat 1 (H410)	<1

See Section 16 for further information on GHS Classification.

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures:

Eye: Immediately flush eyes with large quantities of water for several minutes, while holding the eyelids apart. Remove contact lenses if easy to do so. Continue rinsing. Get medical attention if irritation or bonding occurs.

Skin: Flush skin with water for several minutes. If bonded, immerse bonded areas in warm, soapy water for several minutes. Peel or roll skin or bonded material apart. Get medical attention if irritation occurs. Remove and launder clothing before re-use.

Inhalation: Remove victim to fresh air. Get medical attention if irritation or symptoms of exposure persist.

Ingestion: Flush lips with warm water to release lips if bonded. Ingestion is unlikely, though the product may stick in the mouth. Over a period of 1-2 days, the product will be loosened by saliva. Avoid swallowing the product. Get medical attention if symptoms occur.

4.2 Most Important symptoms and effects, both acute and delayed: May cause moderate eye, skin, and respiratory tract irritation. Bonds immediately with skin and eyelids. Large quantities may react with skin and cause skin burns. May be harmful if swallowed. This product contains hydroquinone which is suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

4.3 Indication of any immediate medical attention and special treatment needed: Immediate medical attention should not be required.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media: Use dry chemical extinguisher or flush with large amounts of water.

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5.2 Special Hazards Arising from the Substance or Mixture:

Unusual Fire and Explosion Hazards: Combustible liquid and vapor. Contact with water will cause the product to polymerize and become solid.

Combustion Products: Oxides of carbon and nitrogen, hydrogen cyanide, and other toxic or irritating compounds.

5.3 Advice for Fire-Fighters:

Wear an approved, positive pressure, self-contained breathing apparatus and full protective clothing. Cool fire exposed containers with water. Contain water used in firefighting from entering sewers or natural waterways.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Evacuate spill area and keep unprotected personnel away. Remove all ignition sources such as open flames, etc. Avoid contact with eyes, skin or clothing. Wear appropriate protective clothing to prevent eye and skin contact including impervious gloves, safety goggles and respirator if needed. Avoid breathing mists or vapors. Ventilate area.

6.2 Environmental Precautions:

Avoid releases to the environment. Report spills and releases as required to appropriate authorities.

6.3 Methods and Material for Containment and Cleaning Up:

Collect material with absorbent rags (not paper towels) or wash the material down with water to solidify and scrape solid off surface. Rinse spill area with water.

6.4 Reference to Other Sections:

Refer to Section 8 for Personal Protective Equipment and Section 13 for Disposal information.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling: Avoid breathing mists or vapors. Use with adequate ventilation. Avoid contact with the eyes, skin and clothing. Wear appropriate protective clothing as described in Section 8. Wash thoroughly after handling. Keep away from flames and sources of ignition. No smoking in storage or use areas. Keep containers closed when not in use.

7.2 Conditions for Safe Storage, Including any Incompatibilities: Store in a container in a cool, dry, well-ventilated location away from heat, sunlight and incompatible materials. Keep in original container. Prevent moisture contact. Keep container tightly closed when not in use. Ideal storage temperature 5-10°C (41-50°F). Shelf life is one year from the date of shipment from manufacturer, unless otherwise noted.

7.3 Specific end use(s): Consumer use.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

Chemical Name	Exposure Limits
Ethyl 2-Cyanoacrylate	0.3 ppm STEL UK WEL 0.2 ppm TWA Belgium OEL
Hydroquinone	0.5 mg/m3 TWA UK WEL 2 mg/m3 TWA Belgium OEL

8.2 Exposure Controls:

Ventilation: Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

Personal Protective Equipment:

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Respiratory Protection: If needed, an approved respirator with organic vapor cartridges may be used. For higher exposures a supplied air respirator may be required. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

Skin Protection: Impervious gloves such as nitrile gloves are suggested to prevent skin contact. Contact your glove supplier for selection assistance. In Europe follow EN 374.

Eye Protection: Chemical safety goggles are recommended where splashing is possible. In Europe follow EN 166.

Other Protective Equipment: Impervious clothing is required to prevent skin contact and contamination of personal clothing. In Europe follow EN 13034. An eye wash facility and safety shower should be available in the work area.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic Physical and Chemical Properties:

Appearance: Transparent, colorless liquid.	Vapor Density: No data available
Odor: Characteristic odor	Solubility(ies): Insoluble in water
Odor Threshold: 1 ppm	Partition Coefficient (Octanol/Water): No data available
pH: No data available	Auto-ignition Temperature: 485°C (905°F)
Melting Point/Freezing Point: No data available	Decomposition Temperature: No data available
Initial Boiling Point/Range: >149°C (300°F)	Viscosity: 20,000 to 50,000 Centipoise at 22°C (72°F)
Flash Point: 86-93.4°C (186-200°F) (TAG)	Explosive Properties: Not explosive
Evaporation Rate: No data available	Oxidizing Properties: Not an oxidizer
Flammable Limits: LEL: No data available UEL: No data available	Relative Density: 1.12 g/mL at 25°C
Vapor Pressure: <0.2 mmHg	Flammability (solid, gas): Not applicable

9.2 Other Information: None available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: Rapid exothermic polymerization will occur in presence of incompatible materials.

10.2 Chemical Stability: Stable under normal storage and handling conditions.

10.3 Possibility of Hazardous Reactions: Polymerization will occur on contact with water, amines, alkalis and alcohols. The polymerization is an exothermic reaction and may cause thermal burns.

10.4 Conditions to Avoid: Keep away from heat, flames and other sources of ignition. Keep dry. Avoid high humidity or high temperatures above 80°C/176°F.

10.5 Incompatible Materials: Water, alcohol, amines, and alkaline materials.

10.6 Hazardous Decomposition Products: Combustion will produce oxides of carbon and nitrogen, hydrogen cyanide, and other toxic or irritating compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Potential Health Effects:

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Eye: Contact with liquid may cause bonding of the eyelids. Contact with vapors can cause moderate eye irritation with stinging and tearing.

Skin: Product will bond to the skin. Contact may cause moderate irritation with redness and itching. Prolonged contact may cause burning.

Inhalation: Inhalation of mists or vapors may cause moderate respiratory tract irritation with coughing, headache, and giddiness.

Ingestion: Ingestion is unlikely. Contact with mouth will cause product to bond to the lips, tongue and inner mouth. Contact may cause irritation.

Chronic Hazards: None known.

Acute Toxicity Values:

Ethyl 2-Cyanoacrylate: Oral rat LD50: >5000 mg/kg, Skin rabbit LD50: >2000 mg/kg

Hydroquinone: Oral rat LD50: 367.3 mg/kg, Skin rabbit LD50: >2000 mg/kg

Skin corrosion/irritation: Ethyl 2-Cyanoacrylate: Slight skin irritation occurred on rabbit skin. Hydroquinone: Not irritating to rabbit skin. This product is expected to cause skin irritation.

Eye damage/irritation: Ethyl 2-Cyanoacrylate: Irritating to rabbit eyes. This product is expected to cause eye irritation.

Respiratory Irritation: No data available.

Respiratory Sensitization: No data available.

Skin Sensitization: No data available for the mixture. Testing for sensitization is technically not feasible. The adhesive bonds instantaneous to the surface of the skin and polymerizes. The polymerized material is not able to penetrate into the epidermis.

Germ Cell Mutagenicity: Hydroquinone: Positive with metabolic activation and negative without metabolic activation in an In-vitro mammalian chromosome aberration test. Positive in mammalian germ cell cytogenetic assay.

Carcinogenicity: Hydroquinone is classified as a category 2 carcinogen by the EU CLP. None of the other components of this product are listed as carcinogens by OSHA, IARC, NTP, ACGIH and the EU CLP.

Reproductive Toxicity: No data available.

Specific Target Organ Toxicity:

Single Exposure: No data available

Repeat Exposure: No data available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

Hydroquinone: 96 hr LC50 Rainbow trout: 0.638 mg/L, 48 hr EC50 Daphnia magna: 0.134 mg/L, 48 hr NOEC Daphnia magna: 0.095 mg/L, 21 day NOEC Daphnia magna: 0.0057 mg/L (M-factor acute= 10, M-factor chronic= 1)

This product is classified as harmful to the aquatic environment with long-term adverse effects. Releases to the environment should be avoided.

12.2 Persistence and Degradability: Hydroquinone: Readily biodegradable- 70% in 14 day.

12.3 Bioaccumulative Potential: No data available

12.4 Mobility in Soil: No data available

12.5 Results of PBT and vPvB Assessment: No data available

12.6 Other Adverse Effects: Not applicable

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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Dispose in accordance with all local, state and federal regulations.

SECTION 14: TRANSPORTATION INFORMATION

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
EU ADR/RID	None	Not Regulated	None	None	Not applicable
IMDG	None	Not Regulated	None	None	Not applicable
IATA/ICAO	None	Not Regulated (less than 500 mL)*	None	None	Not applicable

*Aviation Regulated Liquid, n.o.s. (Ethyl cyanoacrylate), UN3334, 9

14.6 Special Precautions for User: Not applicable

14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health and Environment Regulations/Legislation Specific for the Substance or Mixture:

EUROPEAN REGULATIONS

REACH: These products comply with REACH regulation as applicable. For more information, contact Pacer Technology.

SVHC: This product contains the following Substances of Very High Concern (SVHCs): None.

15.2 Chemical Safety Assessment: No data available

SECTION 16: OTHER INFORMATION

Date of Current Revision: August 10, 2015

Revision Summary: New SDS

Date of Previous Revision: None

GHS Classification for Reference (See Sections 3):

Acute Tox. Cat 4 Acute Toxicity Category 4

Aquatic Acute Cat 1 Aquatic Acute Toxicity Category 1

Aquatic Chronic Cat 1 Aquatic Chronic Toxicity Category 1

Carc. Cat 2 Carcinogen Category 2

Eye Dam. Cat 1 Eye Damage Category 1

Eye Irrit. Cat 2 Eye Irritant Category 2

Muta. Cat 2 Germ Cell Mutagen Category 2

Skin Irrit. Cat 2 Skin Irritant Category 2

Skin Sens. Cat 1B Skin Sensitizer Category 1B

STOT SE Cat 3 Specific Target Organ Toxicity Single Exposure Category 3

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

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H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

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This above information is believed to be correct but does not propose to be all inclusive and shall be used only as a guide. Pacer Technology shall not be held liable for any damage resulting from handling or from contact with the above product.