

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:

Part Number:

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

| | |
|--------------------------|--|
| 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.

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/m ³ TWA UK WEL 2 mg/m ³ 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:

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: | 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: |
| 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: |
| 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:

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

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.



SAFETY DATA SHEET

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.