

**Date Prepared:** 10/10/2014

MSDS No:

Date-Revised: 6/23/2015

**Revision No:** 9

### 1. PRODUCT AND COMPANY IDENTIFICATION

**GENERAL USE:** Cyanoacrylate adhesive product.

PRODUCT DESCRIPTION:

### **MANUFACTURER**

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

Emergency Contact: CHEMTREC Emergency Phone: 800-424-9300

Alternate Emergency Phone: 703-527-3887 Product Stewardship: 909-987-0550

### 2. HAZARDS IDENTIFICATION

### **GHS CLASSIFICATIONS**

### Health:

Eye Irritation, Category 2A
Skin Irritation, Category 2
Target Organ Toxicity (Single exposure), Category 3
Skin Sensitization, Category 1

### Physical:

Flammable Liquids, Category 4

### **GHS LABEL ELEMENTS**



Exclamation mark

# SIGNAL WORD: WARNING HAZARD STATEMENTS

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H317: May cause an allergic skin reaction.

H335: May cause respiratory irritation.

H227: Combustible liquid.

### PRECAUTIONARY STATEMENT(S)

# Prevention:

P264: Wash skin and hands thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P271: Use only outdoors or in a well-ventilated area.



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P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

### Response:

P370: In case of fire: Use dry chemical, foam or carbon dioxide to extinguish.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

P313: Get medical advice/attention.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P362: Take off contaminated clothing and wash before reuse.

P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

### Storage:

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.

### Disposal:

7944L5O1: Dispose of in a manner consistent with federal, state, and local regulations.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name           | Wt.%     | CAS       |
|-------------------------|----------|-----------|
| ETHYL-2-CYANOACRYLATE   | 85 - 100 | 7085-85-0 |
| Polymethyl methacrylate | 10 - 30  | 9011-14-7 |

#### 4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

**SKIN:** Wash with soap and water. Peel or roll skin apart.

**INGESTION:** Peel or roll skin apart. Adhesive becomes solid in contact with saliva and may adhere to inside of mouth. Saliva will lift adhesive in 1-2 days. Avoid swallowing solid adhesive after detachment. Not a toxic product.

**INHALATION:** Remove to fresh air. Prolonged or repeated elevated exposure may cause allergic reactions with asthma-like symptoms in sensitive individuals.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Causes serious eye irritation. Will bond eyelids. Will cause excessive tearing.

**SKIN:** Bonds skin in seconds. May cause skin irritation. May cause sensitization by skin contact. Cyanoacrylates generate heat on polymerization, so very large amounts will burn the skin.

**INGESTION:** Adhesive becomes solid in contact with saliva and may adhere to inside of mouth. Saliva will lift adhesive in 1-2 days. Not a toxic product.

**INHALATION:** Prolonged or excessive inhalation may cause respiratory tract irritation.

**ACUTE TOXICITY:** Avoid exposure to vapor concentration in confined areas.

CHRONIC EFFECTS: Frequent or prolonged contact may irritate the skin and cause a skin rash (dermatitis).



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#### 5. FIRE FIGHTING MEASURES

**GENERAL HAZARD:** Combustible liquid and vapor. Product polymerized to solid by water. **EXTINGUISHING MEDIA:** Use dry chemical extinguisher or flush with large amounts of water. **HAZARDOUS COMBUSTION PRODUCTS:** Can burn in fire, releasing irritanting vapors

**EXPLOSION HAZARDS:** None Known.

FIRE FIGHTING PROCEDURES: Evacuate area and fight fire from a safe distance.

FIRE FIGHTING EQUIPMENT: As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH

approved or equivalent) and full protective gear.

FIRE EXPLOSION: None Known.

SENSITIVE TO STATIC DISCHARGE: None Known.

SENSITIVITY TO IMPACT: None Known.

HAZARDOUS DECOMPOSITION PRODUCTS: Combustible by-products of carbon monoxide/dioxide.

#### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Polymerize with water. Solid material may be scraped from surface.

**LARGE SPILL:** Polymerize with water. Increase ventilation to area. Solid material may be scraped from surface.

### **ENVIRONMENTAL PRECAUTIONS**

**WATER SPILL:** This material is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

# 7. HANDLING AND STORAGE

GENERAL PROCEDURES: Use with adequate ventilation. Avoid contact with eyes, skin and clothing.

**HANDLING:** Avoid breathing (dust, vapor, mist, gas). Avoid contact with skin, eyes and clothing. Keep container closed when not in use.

STORAGE: Store in a cool place in original container and protect from sunlight. Keep away from sources of ignition.

STORAGE TEMPERATURE: Ideal storage: 41-50F (5-10C)

SHELF LIFE: One year from the date of shipment from Pacer Technology, unless otherwise noted.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### **EXPOSURE GUIDELINES**

| OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200) |                 |     |       |      |       |         |       |
|---|-----------------|-----|-------|------|-------|---------|-------|
|   | EXPOSURE LIMITS |     |       |      |       |         |       |
|   |                 | OSH | A PEL | ACGI | H TLV | Suppli  | erOEL |
| Chemical Name                               |                 | ppm | mg/m³ | ppm  | mg/m³ | ppm     | mg/m³ |
| ETHYL-2-CYANOACRYLATE                       | TWA             | [1] | [1]   | 0.2  | 1.0   | 0.2 ppm |       |

#### **OSHA TABLE COMMENTS:**

1. NL = Not Listed



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**ENGINEERING CONTROLS:** Use only in a well ventilated area. Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

**SKIN:** Use Nitrile gloves and aprons to prevent contact. Do not use PVC, Nylon or Cotton materials.

**RESPIRATORY:** Use only in a well-ventilated area. In case of insufficient ventilation, wear suitable respiratory equipment. Recommended: Full-face NIOSH-approved respirator with organic vapor cartridge.

WORK HYGIENIC PRACTICES: Avoid direct contact and breathing vapor. Use with adequate ventilation. Wash hands with soap and water after use.

**OTHER USE PRECAUTIONS:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

**ODOR:** Characteristic odor, intensely irritating. **ODOR THRESHOLD:** Odor Threshold = 1 ppm

APPEARANCE: pH: Not Applicable.

PERCENT VOLATILE: Not Available

FLASHPOINT AND METHOD: 80 °C (176 °F) to 93.4 °C (200 °F) TAG CC

FLAMMABLE LIMITS: Not Available

**AUTOIGNITION TEMPERATURE:** 485 °C (905 °F)

VAPOR PRESSURE: < 0.2 mm Hg VAPOR DENSITY: Not Available BOILING POINT: > 149 °C (300 °F) FREEZING POINT: Not Available MELTING POINT: Not Determined

THERMAL DECOMPOSITION: Not Available

**SOLUBILITY IN WATER:** Insoluble **EVAPORATION RATE:** Not Established

DENSITY: Not Available SPECIFIC GRAVITY: VISCOSITY #1:

**MOLECULAR WEIGHT:** Not Available

(VOC): < 20.000 g/L Per SCAQMD Method 316B.

COEFF. OIL/WATER: Partition coefficient (octanol/water): Not applicable.

### 10. STABILITY AND REACTIVITY



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STABLE: Yes

**HAZARDOUS POLYMERIZATION: No** 

CONDITIONS TO AVOID: Avoid temperatures above 176°F (80°C), moisture and alkalines.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Possible polymerization reaction in the presence of water, amines, alkalis and alcohols.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon Dioxide, Carbon Monoxide and other toxic or irritating compounds may form when heated to decomposition. Oxides of nitrogen and probably hydrogen cyanide are also possible.

INCOMPATIBLE MATERIALS: Polymerized by water, alcohol, amines, alkaline materials.

**COMMENTS:** REACTIVITY: Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols.

### 11. TOXICOLOGICAL INFORMATION

### **ACUTE**

| Chemical Name         | ORAL LD <sub>50</sub><br>(rat) | DERMAL LD <sub>50</sub> (rabbit) |
|-----------------------|--------------------------------|----------------------------------|
| ETHYL-2-CYANOACRYLATE | > 5000 mg/kg                   | > 2000 mg/kg                     |

**DERMAL LD<sub>50</sub>:** > 2000 mg/kg

Notes: (Estimated)

**ORAL LD<sub>50</sub>:** > 5000 mg/kg

Notes: (Estimated)

**INHALATION LC<sub>50</sub>:** Vapors may be irritating. Recommended TWA 0.2ppm.

EYE EFFECTS: Bonds skin and eyes in seconds. Eye irritant.

SKIN EFFECTS: Irritating to skin. May cause allergic skin reaction with prolonged contact.

CARCINOGENICITY

IARC: None known
NTP: None known
OSHA: None known

SENSITIZATION: Possible skin sensitizer.

**TARGET ORGANS:** 

| <u>Ingredient</u>   | Health Effect/ Target Organ           |  |  |
|---------------------|---------------------------------------|--|--|
| Ethyl cyanoacrylate | Irritant, Allergen/ Respiratory, Skin |  |  |

### 12. ECOLOGICAL INFORMATION



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### **ENVIRONMENTAL DATA:**

This material is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

#### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Dispose of following all Local Authority requirements for disposal.

### 14. TRANSPORT INFORMATION

### DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not restricted

**ROAD AND RAIL (ADR/RID)** 

PROPER SHIPPING NAME: Not restricted

AIR (ICAO/IATA)

SHIPPING NAME: Not regulated (less than 500 mL). AVIATION REGULATED LIQUID, N.O.S. (ETHYL CYANOACRYLATE),

UN3334, 9.

VESSEL (IMO/IMDG)

SHIPPING NAME: Not restricted

CANADA TRANSPORT OF DANGEROUS GOODS

SHIPPING NAME: Not restricted

### 15. REGULATORY INFORMATION

#### **UNITED STATES**

### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Immediate Health, Delayed Health, Fire, Reactive.

313 REPORTABLE INGREDIENTS: None above reporting de minimus.

302/304 EMERGENCY PLANNING

**EMERGENCY PLAN:** None above reporting de minimus.

### TSCA (TOXIC SUBSTANCE CONTROL ACT)

| Chemical Name           | CAS       |
|-------------------------|-----------|
| ETHYL-2-CYANOACRYLATE   | 7085-85-0 |
| Polymethyl methacrylate | 9011-14-7 |

TSCA STATUS: All components are listed on or are exempt from listing on the Toxic Substances Control Act.

### **CLEAN AIR ACT**

40 CFR PART 68--- RISK MANAGEMENT FOR CHEMICAL ACCIDENT RELEASE PREVENTION: Not applicable.

CALIFORNIA PROPOSITION 65: No California Proposition 65 ingredients are known to be in this product.

### **CANADA**

WHMIS HAZARD SYMBOL AND CLASSIFICATION



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Combustible Liquid

Class B3 - Combustible, D2B - Irritant.

WHMIS CLASS: B3 - combustible, D2B - irritant.

**DOMESTIC SUBSTANCE LIST (INVENTORY):** All components are listed on or are exempt from listing on the Domestic

Substances List.

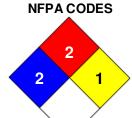
### 16. OTHER INFORMATION

PREPARED BY: Samantha Stouffer Date-Revised: 6/23/2015

REVISION SUMMARY: This MSDS replaces the 4/30/2015 MSDS. Revised: Section 5: FLAMMABLE CLASS.

### **HMIS RATING**

| HEALTH              | 2 |
|---------------------|---|
| FLAMMABILITY        | 2 |
| PHYSICAL HAZARD     | 1 |
| PERSONAL PROTECTION |   |



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