

# Material Safety Data Sheet

According to Regulation (EU) No. 1907/2006 (REACH), Annex II (COMMISSION REGULATION (EU) No 453/2010)

Issue Date 06-Jan-2016

Revision date 06-Jan-2016

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** Pacer Bond  
**REACH registration number:** No information available  
**Product type:** Cyanoacrylate

Distributor in New Zealand  
Pacer Car Clean Products NZ Ltd  
33 Ha Crescent Wiri, Auckland 2104  
Ph: 09 25000 90  
Fax: 09 25000 92  
www.pacer.co.nz

Emergency Telephone in New Zealand (24 hours)  
National Poison Centre: 0800 POISON [764 766]

## 2. HAZARDS IDENTIFICATION

**Relevant routes of exposure:** Skin, Inhalation, Eyes

**Inhalation:** Exposure to vapors above the established exposure limit results in respiratory irritation, which may lead to difficulty in breathing and tightness in the chest.

**Skin contact:** Bonds skin in seconds. May cause skin irritation. Cyanoacrylates have been reported to cause allergic reaction but due to rapid polymerization at the skin surface, an allergic response is rare. Cyanoacrylates generate heat on solidification. In rare circumstances a large drop will burn the skin. Cured adhesive does not present a health hazard even if bonded to the skin.

**Eye contact:** Irritating to eyes. Causes excessive tearing. Eyelids may bond.

**Ingestion:** Not expected to be harmful by ingestion. Rapidly polymerizes (solidifies) and bonds in mouth. It is almost impossible to swallow.

**Existing conditions aggravated by exposure:** Eye, skin, and respiratory disorders.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

## 3.COMPOSITION/INFORMATION ON COMPONENTS

**Substance/Preparation:**Preparation  
**Chemical Nature:** Liquid

**Hazardous Components: -**

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Concentration</u>	<u>EU Classification</u>
Ethyl Cyanoacrylate	7085-85-0	99.8%	Not listed
Hydroquinine	123-31-9	0.2%	Xn; R20-51/53

**4. FIRST AID MEASURE****Inhalation:**

Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Skin contact:**

Do not pull bonded skin apart. Soak in warm soapy water. Gently peel apart using a blunt instrument. If skin is burned due to the rapid generation of heat by a large drop, seek medical attention. If lips are bonded, apply warm water to the lips and encourage wetting and pressure from saliva in mouth. Peel or roll lips apart. Do not pull lips apart with direct opposing force.

**Eye contact:**

Immediately flush with plenty of water for at least 15 minutes. Get medical attention. If eyelids are bonded closed, release eyelashes with warm water by covering with a wet pad. Do not force eye open. Cyanoacrylate will bond to eye protein and will cause a lachrymatory effect which will help to debond the adhesive. Keep eye covered until debonding is complete, usually within 1-3 days. Medical attention should be sought in case solid particles of polymerized cyanoacrylate trapped behind the eyelid caused abrasive damage.

**Ingestion:**

Ensure breathing passages are not obstructed. The product will polymerize rapidly and bond to the mouth making it almost impossible to swallow. Saliva will separate any solidified product in several hours. Prevent the patient from swallowing any separated mass.

**Notes to physician:**

Surgery is not necessary to separate accidentally bonded tissues.

Experience has shown that bonded tissues are best treated by passive, non-surgical first aid. If rapid curing has caused thermal burns they should be treated symptomatically after adhesive is removed.

**5. FIRE FIGHTING MEASURES****Flash point:**

80 °C (176°F) Tagliabue closed cup

**Autoignition temperature:**

485 °C (905°F)

**Flammable/Explosive limits - lower:**

Not determined

**Flammable/Explosive limits - upper:**

Not determined

**Extinguishing media:**

Dry powder. foam Carbon dioxide.

**Special firefighting procedures:**

Fire fighters should wear positive pressure self-contained breathing Apparatus(SCBA)

**Unusual fire or explosion hazards:**

None

**Hazardous combustion products:**

Trace amounts of toxic and/or irritating fumes may be released and the use of breathing apparatus is recommended.

**6.ACCIDENTAL RELEASE MEASURES**

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

**Environmental precautions:**

Ventilate area. Do not allow product to enter sewer or waterways.

**Clean-up methods:**

Do not use cloths for mopping up. Flood with water to complete polymerization and scrape off the floor. Cured material can be disposed of as non-hazardous waste

## 7. HANDLING AND STORAGE

**Handling:**

Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after **handling**. Avoid contact with fabric or paper goods. Contact with these materials may cause rapid polymerization which can generate smoke and strong irritating vapors, and cause thermal burns.

**Storage:**

Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Ethyl 2-cyanoacrylate	0.2 ppm TWA	None	None	None
Thickener	None	None	None	None

**Engineering controls:**

Use positive down-draft exhaust ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits.

**Respiratory protection:**

Use a NIOSH approved air-purifying respirator with an organic vapor cartridge.

**Eye/face protection:**

Safety goggles or safety glasses with side shields.

**Skin protection:**

Use nitrile gloves and aprons as necessary to prevent contact. Do not use PVC, nylon or cotton.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:**

Liquid

**Color:**

Clear, light yellow, to, Dark blue-green

**Odor:**

Sharp

**Odor threshold:**

Not available.

**pH:**

Not applicable

**Vapor pressure:**

< 0.2 mm hg

**Boiling point/range:**

> 149 °C (> 300.2 °F)

**Melting point/ range:**

Not determined

**Specific gravity:**

1.07 at 20 °C (68°F)

**Vapor density:**

3 Approximately

**Flash point:**

80 °C (176°F) Tagliabue closed cup

**Flammable/Explosive limits - lower:**

Not determined

**Flammable/Explosive limits - upper:**

Not determined

**Autoignition temperature:**

485 °C (905°F)

**Evaporation rate:**

Not available.

**Solubility in water:**

Polymerises in presence of water.

<b>Solubility in water:</b>	Soluble
<b>Partition coefficient (n-octanol/water):</b>	Not applicable
<b>VOC content:</b>	20 g/l California SCAQMD Method 316B

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under recommended storage conditions.
<b>Hazardous reactions:</b>	Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols.
<b>Hazardous decomposition products:</b>	None
<b>Incompatible materials:</b>	Water, amines, alkalis and alcohols.
<b>Conditions to avoid:</b>	Spontaneous polymerization.

## 11. TOXICOLOGICAL INFORMATION

<b>Acute oral product toxicity:</b>	LD50 (rat) > 5,000 mg/kg (Estimated)
<b>Acute dermal product toxicity:</b>	LD50 (rabbit) > 2,000 mg/kg (Estimated)

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Ethyl 2-cyanoacrylate	No	No	No
Thickener	No	No	No

Hazardous components	Health Effects/Target Organs
Ethyl 2-cyanoacrylate	Irritant, Allergen, Respiratory
Thickener	Irritant

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	
<b>Ethyl cyanoacrylate:</b>	No information available.
<b>Hydroquinone:</b>	Daphnia Magna (LC50) 96h 0.05 ppm.
<b>Persistence/ degradability</b>	
<b>Ethyl cyanoacrylate:</b>	No information available.
<b>Hydroquinone:</b>	BOD = 53%
	BCF – Does not concentrate in the food chain.

## 13. DISPOSAL CONSIDERATION

Information provided is for unused product only.

<b>Recommended method of disposal:</b>	Follow all local, state, federal and provincial regulations for disposal.
<b>Hazardous waste number:</b>	Not a RCRA hazardous waste

## 14. TRANSPORT INFORMATION

### Water Transportation (IMO/IMDG)

<b>Proper shipping name:</b>	Not regulated
<b>Hazard class or division:</b>	None
<b>Identification number:</b>	None
<b>Packing group:</b>	None



## 15. REGULATORY INFORMATION

### United States Regulatory Information

<b>TSCA 8 (b) Inventory Status:</b>	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
<b>TSCA 12(b) Export Notification:</b>	None above reporting de minimus
<b>CERCLA/SARA Section 302 EHS:</b>	None above reporting de minimis
<b>CERCLA/SARA Section 311/312:</b>	Immediate Health, Delayed Health, Fire, Reactive
<b>CERCLA/SARA 313:</b>	None above reporting de minimis
<b>California Proposition 65:</b>	No California Proposition 65 listed chemicals are known to be present.

### Canada Regulatory Information

<b>Canada Regulatory Information:</b>	Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.
<b>WHMIS hazard class:</b>	B.3, D.2.B

## 16. OTHER INFORMATION

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<b>Issue Date:</b>	06-Jan-2016
<b>Revision date:</b>	06-Jan-2016
<b>Revision Note:</b>	Not applicable.

Estimated NFPA Rating: HEALTH 2, FLAMMABILITY 0, REACTIVITY 0.

Estimated HMIS Classification: HEALTH 2, FLAMMABILITY 0, PHYSICAL HAZARD 0

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**REACH registration number:** No information available  
**Product type:** Powder

Distributor in New Zealand  
Pacer Car Clean Products NZ Ltd  
33 Ha Crescent Wiri, Auckland 2104  
Ph: 09 25000 90  
Fax: 09 25000 92  
www.pacer.co.nz

Emergency Telephone in New Zealand (24 hours)  
National Poison Centre: 0800 POISON [764 766]

## 2. HAZARDS IDENTIFICATION

### Classification

**Dangerous goods:** Not classified as dangerous goods.  
**Risk Symbols:** Not required  
**Risk Phrases:** Not required  
**Physical/chemical hazards:** Not specific hazard.  
**Human health hazard:** Not specific hazard.  
**Environmental health hazard:** No specific hazard.

## 3.COMPOSITION/INFORMATION ON COMPONENTS

**Substance/Preparation:** Preparation  
**Chemical Nature:** Dry Powder mixture  
**Hazardous Components:**

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Concentration</u>	<u>EU Classification</u>
The product consists of metal oxide pigments and salts and contains no ingredients either listed as dangerous goods, or listed as EU classified substances.			

## 4. FIRST AID MEASURE

**Eye Contact :** Rinse immediately with plenty of water for at least 15 minutes, seek medical attention

**Skin Contact:** Not irritating to the skin. Gently brush away excess powder. .

**Ingestion:** No, or very low, oral toxicity. If discomfort occurs, obtain medical attention.

**Inhalation :** No adverse effects.

## 5. FIRE FIGHTING MEASURES

The product is not flammable or combustible.

**Suitable extinguishing media :** No restrictions  
**Special protective equipment :** None  
**Special hazards :** None

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Avoid formation of dust.  
**Environmental precautions :** No special precautions required.  
**Methods for cleaning up :** Collect material and dispose as ordinary waste

## 7. HANDLING AND STORAGE

**Safe handling advice:** Prevent the formation of dust.  
**Storage Conditions:** Store in a dry, well ventilated area. Store away from incompatible materials such as water and acids.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure limits

No TWA or STEL listings for any of the ingredients .

### Personal protective equipment

**Eye protection:** No special requirements.  
**Skin and body protection:** No special requirements.  
**Protective measures:** No special requirements.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Dry powder  
**Color :** Black  
**Odour :** None  
**Initial boiling point :** Not applicable  
**Flash Point:** Not applicable  
**Specific gravity:** 1.5~2.5g/cm<sup>3</sup>  
**Water solubility :** Partially soluble in water  
**Vapor Pressure :** Not applicable  
**Melting Point :** No clearly defined melting

## 10. STABILITY AND REACTIVITY

**Conditions to avoid:** Stable under ordinary conditions of use and storage  
**Materials to avoid:** Moisture and strong acids.  
**Hazardous decomposition products:** Carbon dioxide in large fires.  
**Hazardous Polymerization:** Does not occur.

## 11. TOXICOLOGICAL INFORMATION

### Potential acute health effects

**Inhalation:** No specific effects.  
**Ingestion:** No specific effects.  
**Eye contact:** No specific effects.  
**Skin contact:** No specific effects.

12. ECOLOGICAL INFORMATION

**Ecotoxicity:** No listed aquatic toxic effects for any of the ingredients.  
**Persistence/ degradability:** No BOD or BCF ratings available for any of the ingredient.

13. DISPOSAL CONSIDERATION

**Product:** Dispose as normal waste in accordance with local and national regulations.  
**Containers:** Dispose as normal waste in accordance with local and national regulations.  
**Contaminated packaging:** Dispose as normal waste in accordance with local and national regulations.

14. TRANSPORT INFORMATION

**Road and rail transport:** Not classified as dangerous goods.  
**Sea transport (IMDG):** Not classified as dangerous goods.  
**Air transport (IATA0):** Not classified as dangerous goods.

15. REGULATORY INFORMATION

**National legislation (South Africa)**  
**Hazardous substances:** Occupational Health And Safety Act, Act 85 of 1995 - Regulations for hazardous chemical substances.  
**Waste disposal:** National Water Act, Act 36 of 1998  
**Other regulations**  
**Hazard Symbols:** Not required.  
**Risk phrases:** Not required.

16. OTHER INFORMATION

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Estimated NFPA Rating: HEALTH 2, FLAMMABILITY 0 , REACTIVITY 0.  
Estimated HMIS Classification: HEALTH 2, FLAMMABILITY 0, PHYSICAL HAZARD 0