MATERIAL SAFETY DATA SH	··	Instant Liquid Bond		
IDENTITY (As used on label and list)		lote: Blank spaces are not permitted. If any item is not applicable or no		
GRAVOBOND Cyanoacrylate Adhesive		information is available, the space must be marked to indicate that.		
CDCCTYON I				
SECTION I	<u>-</u> -			
Manufacturer's Name  Palm Labs., Inc 10 Office Way, Suite 250		Emergency Telephone Number (800) 964-6660		
		Telephone Number For Information.		
		(843) 686-2345		
Hilton Head, SC, 29928		Date Prepared		
		02/05/2009		
		Signature of Preparer (optional)		
SECTION II - Hazardous Ingredi				
Ethyl Cyanoacrylate	dentity; Common Name(	s) <u>CAS NO</u> <u>EINECS NO</u> <u>%</u> 7085-85-0 230-391-5 80 – 100		
Ingredients With Exposure Limits	•	ACGIH OSHA OTHER (TLV) (PEL)		
Ethyl Cyanoacrylate		0.2 ppm TWA none none		
SECTION III - Physical/Chemica	al Characteristics			
Appearance and Odor	Boiling Poir			
Clear liquid, Acrid odor Solubility in Water	> 300° F.	1.05 – 1.08		
Polymerizes	Melting Poi Not determi			
VOC coefficient	Evaporation			
< 3 %	Not availabl			
SECTION IV - Fire And Explosi	on Hazard Data			
Flash Point (Tag Closed Cup) 176° F - 200° F				
Extinguishing Media Dry Powder, Foam, Carbon Dioxide				
Special Fire Fighting Procedures Firefighters should wear self-contained breathi	ng apparatus			
Hazardous Combustion Product				
Trace amounts of toxic and/or irritating fumes	may be released.			
Unusual Fire and Explosion Hazards None				

Stable under recommended storage conditions

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

Water, amines, alkalis and alcohol

Spontaneous polymerization

None

SECTION V - Reactivity Data

Incompatible Materials to Avoid

Hazardous Decomposition Products

Hazardous Polymerization

Conditions to avoid

Stability

**SECTION VI - Health Hazard Data** 

Routes of E	ntry	Inhalat	ion? Skin?	Ingestion?	Eys?		
		Yes	yes Yes	No	Yes		
First Aid M	easures:	Inhalation	Remove to fresh Air				
		Skin Contact	solidification and in rare cases, a large drop can generate enough heat to cause a burn. Burns should be treated normally after adhesive is removed. If lips are stuck together, use saliva inside the mouth to provide maximum wetting and gently roll apart.				
		Ingestion	Ensure that breathing passages are unobstructed. The product will polymerize immediately in the mouth making it impossible to swallow. Saliva will slowly separate the solidified product from the mouth (several hours).				
		Eye Contact	If eye is bonded closed, release cyclashes with warm water by covering with wet pad.				
		•	Product will bond to eye protein causing lachrymatory effect which will help debond material.				
			Keep eye covered with wet, warm pads 1-3 days until debonding is complete.				
			Do not force eye open. Seek r	nedical attention if solids are trap	ped behind the eyelid.		
Carcinogenicity		NTP	IARC Monogra	ghs? OSHA Regulated	?		
		None	No	No			
Toxicologic	al Informa	ation					
Inhalation	Vapors irritating to respiratory system and eyes in dry atmospheres. Prolonged exposure to high concentration may lead to chronic effects in sensitive individuals.						
Skin	Irritating	ritating to the skin. Bonds skin in seconds. Considered to be of low toxicity: acute dermal LD50 rabbit>2000mg/kg.					
	Due to polymerization at the skin surface, allergic reaction in unlikely to occur.						
ngestion	Cyanoacrylates are considered to have low toxicity. Acute oral LD50 is >5000mg/kg (rat).						
_	It is almost impossible to swallow as it polymerizes instantly in the mouth.						
Eyes	Irritant to	ritant to the eyes. Liquid product will bond eyelids. In dry atmospheres (RH<50%), vapors may cause irritation and achrymatory effect.					

## SECTION VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

Ventilate area and prevent product from entering waterways. Flush area with copious amounts of cool water. Allow to harden and break up and dispose of according to local regulations. Cured material can be disposed of as non-hazardous waste. Do not use cloths for mopping up. Waste Disposal Method.

Cured material can be disposed of as non-hazardous waste. Do not use cloths for mopping up.

**Ecotoxicity Effects** 

Biodegradable product of low ecotoxicity. Biological and Chemical Oxygen Demands (BOD and COD) are insignificant.

Not a water pollutant.

Safe Handling

Ventilation is recommended when using large volumes. Avoid skin and eye contact. Material should be handled in a cool, dry area. Use polyethylene or polypropylene gloves when handling large volumes. DO NOT USE PVC, rubber, nylon or cotton gloves. Eye protection should be used any time there is a risk of splattering.

Safe Storage

Material should be handled in a cool, dry area. Containers should be kept tightly closed. Avoid storage in sunlight. For maximum shelf life, store material in original containers and keep refrigerated (36°-46°F).

**SECTION VIII - Transport Information** Land Transport (USDOT): Unrestricted Proper shipping name: Hazard class or division Unrestricted None Identification Number None Packing Group Sea Transportation (IMDG): Unrestricted Proper shipping name Unrestricted Hazard class or division Identification Number None Packing Group None Air Transportation (IATA/ICAO): Aviation regulated liquids n.o.s. Proper shipping name Hazard class or division UN 3334 Identification Number **Packing Group** None Exceptions (Not more than 500ml) Unrestricted