

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for the specific requirements.

U. S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTIFY (As used on label) Handibond USA, Cyanoacrylate (EC, PR, SF, and SI grades.)	NOTE: Blank spaces are not permitted. If any item is not applicable or no information is available; the space must be marked to indicate it.
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Section I

Manufacture's Name Handibond USA	Emergency Telephone Number 1-866-688-3240
Address (Number, Street, City, State and ZIP Code) 91-229 Wahine Omao Way Ewa Beach, HI 96706	Telephone Number for Information 808-683-3240 Data Prepared 04/10/09
Signature of Preparer (Optional)	

Section II – Hazardous Ingredients/Identity Information

Hazardous Components (Specify Chemical Identity: Common Name(s) OSHA PEL ACGIH TLV Other Limits Recommended	% Optional
Ethyl Cyanoacrylate	7085-85-0 > 80%
Acrylic Polymer – N.J.T.S. Reg No 56705700001-6604	Trade Secret < 10%
Hydroquinone	123-31-9 < 0.15

Section III – Physical/Chemical Characteristics

Boiling Point	More than >212°F	Specific Gravity (H2O = 1)	1.05 – 1.16
Vapor Pressure (mm Hg)	Less than 0.2mm @ 75°F	Melting Point	NE
Vapor Density (AIR = 1)	Approximately 3	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility in Water: Polymerized by water	voc: <2%, <20g/L; California SCAQMD method 316 (estimated)		
Appearance and Odor:	Clear viscous liquid with a sharp, irritating odor. (Odor threshold: 1 – 2 ppm)		

Section IV – Fire and Explosion Hazard Data

Flash Point (Method Used) 150 – 200°F	Flammable Limits NA	LEL N/DA	UEL N/DA
Extinguishing Media: Foam, CO ₂ , dry chemicals			
Special Fire Fighting Procedures: Use self-contained breathing apparatus.			
Unusual Fire and Explosion Hazards: Irritating organic vapors.			

Section V – Health Hazard Data

Threshold Limit Value: ACGIH TLV: None; OSHA PEL: None, Other 0.2 ppm TWA
Effects of overexposure: Ingestion: not likely. The product will polymerize rapidly, adhering to the mouth. Inhalation: may be irritating to respiratory system above recommended exposure limits. Remove to fresh air. If breathing is difficult, seek medical attention. Vapors are irritating to eyes and mucous membranes. Prolonged and repeated exposure to vapors may produce allergic reactions with asthma-like symptoms in sensitive individuals. Skin: Irritating - will bond instantly with small gaps.
Emergency and First Aid Procedures: Ingestion: Insure breathing passages are clear. Saliva will separate any solidified product within two days. Prevent accidental swallowing. Eyes: Irritating. Immediately flush with warm water for at least 15 minutes, get prompt medical attention and apply gauze patch. Cyanoacrylate will bond to eye protein and cause a lachrymatory effect which will help de-bond the adhesive. Keep eye covered until de-bonding is complete (usually within 1-4 days). Skin: bonds rapidly and strongly. May cause burns. Immerse bonded surface in warm soapy water. Peel or roll surface apart with aid of blunt edge. Do not pull apart with direct opposing action. If skin is burned by a large drop, (due to heat generated by the polymerization) seek medical help. If the lips are accidentally bonded, apply warm soapy water, encourage maximum wetting and pressure from saliva inside the mouth and peel or roll lips apart. DO NOT TRY TO PULL LIPS

APART. Burns: should be treated normally after the lump of cyanoacrylate is released from the tissue.			
Section VI – Reactivity Data			
Stability	Unstable		Conditions to Avoid: Elevated temperatures, direct sunlight, and sources of ignition.
	Stable	X	
Incompatibility (<i>Materials to avoid</i>) Polymerized by contact with water, alcohol, amines and/or alkalis.			
Hazardous Decomposition Products: None.			
Hazardous Polymerization	May occur	X	Conditions to Avoid: Rapid polymerization will occur in the presence of water, amines, alkalis and alcohol. Avoid skin contact.
	Will not occur		
Section VII – Spill or Leak Procedures			
Steps to be taken in case material is to be released or spilled: Remove all ignition sources. Ventilate area, prevent product from entering drains. Flood with water to complete polymerization. Scrape off floor.			
Waste Disposal Method: Cured material can be disposed of as non-hazardous waste. Polymerize as above. Incinerate in accordance with EPA and local regulations.			
Section VIII – Special Protective Information			
Respiratory Protection (<i>Specify Type</i>) At high vapor concentrations, an approved self-contained breathing apparatus should be worn.			
Ventilation	Local Exhaust	Positive down draft exhaust ventilation should be provided to maintain vapor concentration below TLV.	Special None
	Mechanical	Not Applicable	Other None
Protective Gloves: Use nitrile gloves and aprons as necessary to prevent contact. Do not use PVC, nylon or cotton.		Eye Protection: Chemical splash goggles or safety glasses with side shields.	
Other Protective Equipment: Polyethylene/Polypropylene coats or aprons (not rubber or cotton)			
Section IX – Special Precautions			
Precautions to be taken in handling and storing: Keep away from heat, sparks, flames and direct sunlight. Avoid contact with eyes, skin and clothing. Wear chemical resistant gloves when handling. Avoid inhalation of vapors. Skin contact through clothing may cause burns.			
Other Precautions: Avoid contact with polymerization initiators such as water, alcohol, amines or alkalis. Store in tightly closed, labeled containers at or below 75°F. Keep in well, ventilated area away from heat, sparks and open flames.			
Section X – Regulatory Information			
CERCLA/SARA 311/312 Immediate Health Hazard, Delayed Health Hazard, Fire, Reactive WHMIS Hazard Class B.3, D.2B All ingredients are listed or exempt from listing on the TSCA Inventory and the DSL. Estimated HMIS Code: Health Hazard (2) Fire Hazard (2) Physical Hazard (1)			
Section XI – Transportation Information			
DOT (49CFR172): Unrestricted [Less than 450 L] NA1993, Combustible liquid, n.o.s. (cyanoacrylate ester), 3, III [More than 450 L] IATA: Unrestricted [Not more than 500mL] UN3334, Aviation regulated liquid, n.o.s., (cyanoacrylate ester), 9 [More than 500 mL]			
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