

Safety Data Sheet

PERMABOND 910

Revision Number: 1

Issue date: 12/06/13

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name:PERMABOND 910Product type:Cyanoacrylate

Company: PERMABOND LLC 14 Robinson Street Pottstown, PA 19464 USA Telephone: 732-868-1372 or 800-640-7599 Website: www.permabond.com

Emergency telephone: Medical: Poison Control Center 866-827-6282 Transport: CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

Physical state: Color: Odor:	Liquid Clear Irritating, Sharp	EMERGENCY OVERVIEW HMIS HEALTH: FLAMMABILITY: PHYSICAL HAZARD: Personal Protection:	2 2 1 See Section 8		
WARNING: BONDS SKIN ON CONTACT MAY CAUSE SKIN, EYE AND RESPIRATORY TRACT IRRITATION COMBUSTIBLE LIQUID AND VAPOR					
Relevant routes	s of exposure: Sk	in, Inhalation, Eyes			
Potential Health Inhalation:	n Effects		oosure limits causes irritation to the o difficulty of breathing and tightness		
Skin contact: Eye contact:		Bonds skin in seconds. May cause skin irritation. Cyanoacrylates have been reported to cause skin allergic reaction but due to the rapid polymerization upon skin contact, an allergic reaction is rare. Irritating to eyes. May cause excessive tearing. On contact, will bond			
Ingestion:		eyelids. Not expected to be harmful by ing bonding of the mouth may occur. I			

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

Skin, eye and respiratory disorders.

See Section 11 for additional toxicological information.

exposure:

Existing conditions aggravated by



3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous compo	onents	CAS NUMBER	CONCENTRATION (%)		
Methyl 2-cyanoacry	ylate	137-05-3	60 – 100		
4. FIRST AID MEASURES					
Inhalation:	Move to fres	sh air. If symptoms persist,	get medical attention.		
Skin contact:	while flexing heat genera lips are bond	bonded skin followed by g ted during the rapid polymo ded apply warm water to th	ed skin can be easily torn. Soak in warm soapy wate gently peeling skin apart. If skin is burnt due to the erization of a large drop, seek medical attention. If he lips and encourage the use of saliva to wet the rt. Do not use direct opposing force to peel the lips		
Eye contact:	Immediately attention. If eyelashes. I will help to d	eyes are bonded closed, a Do not force eye open. Cya lebond the adhesive. Keep days. Get medical attentio	of water for at least 15 minutes. Get medical pply warm water using a wet pad to release anoacrylates will cause a lachrymatory effect which the eye covered until debonding is completed n to make sure cured adhesive is not trapped		
Ingestion: Notes to Physician:	polymerize a swallow. Sal patient from Surgery is n that bonded	almost instantaneously bor liva will debond and separa swallowing any separated ot necessary to separate a tissues are best treated by	ccidentally bonded tissues. Experience has shown / passive non-surgical first aid. If rapid curing has		
	caused ther	-	eated symptomatically after adhesive is removed.		
		5. FIRE-FIGHTING	MEASURES		
Flash point: Autoignition tem Flammable/Explo Flammable/Explo Extinguishing m	osive limits-lov osive limits-up	485°C (908°F) wer %: Not determined per %: Not determined	76°F – 199.94°F) Tagliabue closed cup ay or fog, dry chemical or carbon dioxide.		

Unusual fire or explosion hazards: Hazardous combustion products:

Special fire fighting procedures:

Toxic and/or irritating organic vapors may be generated.

Fire fighter should wear positive pressure self-contained breathing

6. ACCIDENTAL RELEASE MEASURES

Use personal protection equipment recomended in section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

apparatus.

None



Environmental p	recautions: Ventilate area. Prevent product from entering drains or waterways.
Clean-up method	Is: Do not use cloths to mop spills. Flood area with plenty of water to insure complete polymerization. When cured scrape off the floor for disposal. 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. Keep away from fabric and paper goods. Contact with these materials may cause rapid polymerization which can generate smoke and strong irritating vapors and cause thermal burns.
Storage:	Store away from heat, sparks, flames, or other sources of ignition. For shelf life information contact Permabond customer service at (800)714-0170

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employees should complete an assessment of all workplaces to determine the need for and selection of proper exposure controls and protective equipment before each task is started.

ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER	
0.2 ppm TWA	None	None	None	
Use positive down draft exhaust ventilation if general ventilation is insufficient to maintain vapor concentrations below established exposure limits.				
Use NIOSH approved respirator if there is potential to exceed exposure limit(s).				
Use nitrile gloves and protective clothing as necessary to prevent skin contact. Do not use PVC, nylon, cloth or cotton gloves Safety goggles or safety glasses with side shields or face shield				
	0.2 ppm TWA Use positive down draft ext maintain vapor concentration Use NIOSH approved resp Use nitrile gloves and protection not use PVC, nylon, cloth of	0.2 ppm TWA None Use positive down draft exhaust ventilation maintain vapor concentrations below establi Use NIOSH approved respirator if there is p Use nitrile gloves and protective clothing as not use PVC, nylon, cloth or cotton gloves	0.2 ppm TWA None None Use positive down draft exhaust ventilation if general ventilation is maintain vapor concentrations below established exposure limits. Use NIOSH approved respirator if there is potential to exceed exp Use nitrile gloves and protective clothing as necessary to prevent not use PVC, nylon, cloth or cotton gloves	

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Color:	Clear
Odor:	Sharp irritating
Odor threshold:	Not Available
pH:	Not applicable
Vapor pressure:	<0.3 mm Hg
Boiling point/range:	>149ºC (300ºF)
Melting point/range:	Not determined
Specific gravity:	1.05 at 23.9°C (75°F)



Vapor density: Flash point:	Approximately 3 80°C – 93°C (176°F - 199.94°F)
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:	Polymerizes in water
Partition coefficient (n-octanol/water):	Not applicable
VOC content:	<2 %, 20 grams/liter (Estimated)

10. STABILITY AND REACTIVITY		
Stability:	Stable when stored under the recommended storage conditions	
Hazardous reactions:	Rapid exothermic reaction will occur in the presence of water, amines, alkalis and alcohols.	
Hazardous decomposition products:	Upon heating may decompose to release toxic fumes of nitrogen oxides, carbon monoxide and carbon dioxide	
Incompatible materials:	Water, amines, alkalis and alcohols.	
Conditions to avoid:	Contact with incompatible materials which may cause spontaneous polymerization	

11. TOXICOLOGICAL INFORMATION

Carcinogen Status			
Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Methyl 2-cyanoacrylate	No	No	No

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

12. ECOLOGICAL INFORMATION

Ecological information:

Unknown

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal:	Dispose of according to Federal, State and local governmental regulations.
Hazardous waste number:	Not a RCRA hazardous waste.



14. TRANSPORT INFORMATION

U.S. Department of Transportation Ground (49 CFR):

Proper shipping name:	Combustible liquid, n.o.s (cyanoacrylate ester)
Hazard class or division:	Combustible liquid
Identification number:	NA 1993
Packing group:	III
Exceptions:	Unrestricted, (Not more than 450 L)

International Air Transportation (ICAO/IATA):

Proper shipping name:	
Hazard class or division:	
Identification number:	
Packing group:	
Exceptions:	

Aviation regulated liquid, n.o.s. (Cyanoacrylate ester) 9 UN 3334 None Primary packs containing less that 500 ml are unregulated by this mode of transportation and may be shipped unrestricted

WaterTransportation (IMO/IMDG):

Proper shipping name: Hazard class or division:	Unrestricted None
Identification number:	None
Packing group:	None
Marine pollutant:	None

15. REGULATORY INFORMATION

United States Regulatory Information	
TSCA 8 (b) Inventory Status:	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
TSCA 12 (b) Export Notification:	None above the reporting limits.
CERCLA/SARA Section 302 EHS:	None above the reporting limits.
CERCLA/SARA Section 311/312:	Immediate Health, Delayed Health, Fire, Reactive
CERCLA/SARA 313:	None above the reporting limits.
California Proposition 65:	No chemical listed on the California Proposition 65 are known to be present.
Canada Regulatory Information	
CEPA DSL/NDSL Status:	All components are listed on or are exempt from listing on the Domestic Substances List.
WHMIS hazard class:	B.3, D.2.B

16. OTHER INFORMATION

This material safety data sheets contains changes from the previous one in section1: Transport Emergency Number was changed.

ADDITIONAL INFORMATION: The information given and the recommendations made herein apply to our product(s) alone and are not combined with other product(s). Such are based on our research and on data from other reliable sources and are believed to be accurate. No guaranty of accuracy is made. It is the purchaser's responsibility before using any product to verify this data under their own operating conditions and to determine whether the product is suitable for their purposes.