

## SAFETY DATA SHEET Permabond 795

1. Identification			
Product identifier			
Product name	Permabond 795		
Recommended use of the ch	Recommended use of the chemical and restrictions on use		
Application	Adhesive.		
Details of the supplier of the safety data sheet			
Supplier	Permabond LLC 14 Robinson Street Pottstown, PA 19464 USA Telephone: 732-868-1372 or 800-640-7599 Website: www.permabond.com		
Emergency telephone number			
Emergency telephone	Medical: Poison Control Center 866-827-6282 (toll free) or 303-389-1109 Transport: CHEMTREC 800-424-9300		
2. Hazard(s) identification			
Classification of the substance or mixture			
OSHA Regulatory Status	Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).		
Physical hazards	Flam. Liq. 4 - H227		
Health hazards	Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 STOT SE 3 - H335		
Label elements Pictogram			
Signal word	Warning		
Hazard statements	H227 Combustible liquid. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.		

60-100%

## Permabond 795

Precautionary statements	P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.
	P261 Avoid breathing vapor/ spray.
	P264 Wash contaminated skin thoroughly after handling.
	P271 Use only outdoors or in a well-ventilated area.
	P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
	P302+P352 If on skin: Wash with plenty of water.
	P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
	P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.
	P312 Call a poison center/ doctor if you feel unwell.
	P332+P313 If skin irritation occurs: Get medical advice/ attention.
	P337+P313 If eye irritation persists: Get medical advice/ attention.
	P362+P364 Take off contaminated clothing and wash it before reuse.
	P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish. P403+P233 Store in a well-ventilated place. Keep container tightly closed.
	P403+P235 Store in a well-ventilated place. Keep container tightly closed.
	P405 Store locked up.
	Dispose of contents and/or container according to Federal, State/Provincial and local
	governmental regulations.
Contains	ETHYL 2-CYANOACRYLATE
Other hazards	
None under normal conditions	5.

### 3. Composition/information on ingredients

### Mixtures

#### ETHYL 2-CYANOACRYLATE

CAS number: 7085-85-0

#### Classification

Flam. Liq. 4 - H227 Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 STOT SE 3 - H335

The full text for all hazard statements is displayed in Section 16.

Composition comments	Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.
4. First-aid measures	
Description of first aid measu	ures
Inhalation	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If symptoms develop and persist, get medical attention.
Ingestion	On contact, immediate bonding of mouth could occur. Do not induce vomiting. Get medical attention.
Skin Contact	On contact, immediate bonding of the skin will occur. No attempt should be made to remove material from skin or to remove contaminated clothing, as the bonded skin can be easily torn. Wash skin thoroughly with soap and water.

Eye contact	Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. If adhesive bonding occurs, do not force eyelids apart. Apply a pad soaked in warm water and allow the eyelids to separate. Get medical attention. Cured adhesive will not bond well to surface of eye, but corneal damage from abrasion may result.	
Most important symptoms and	effects, both acute and delayed	
Inhalation	Irritation of nose, throat and airway.	
Ingestion	On contact, immediate bonding of mouth could occur.	
Skin contact	Prolonged skin contact may cause redness and irritation.	
Eye contact	Irritating and may cause redness and pain.	
Indication of immediate medical attention and special treatment needed		
Notes for the doctor	SKIN BONDING. Prise the skin apart slowly working from the edge of the bonded area. This can be eased by using warm soapy water. EYE BONDING. DO NOT force eyelids apart. Apply a pad soaked in warm water and allow the eye to separate itself.	
5. Fire-fighting measures		
Extinguishing media		
Suitable extinguishing media	Extinguish with foam, carbon dioxide, dry powder or water fog.	
Special hazards arising from the substance or mixture		
Specific hazards	Cloths used to wipe up spills may cause rapid polymerization that could generate sufficient heat to ignite the cloth.	
Hazardous combustion products	Trace amounts of toxic and/or irritating organic vapors may be generated. The use of breathing apparatus is recommended.	
Advice for firefighters		
Protective actions during firefighting	Avoid breathing fire gases or vapors.	
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.	
6. Accidental release measure	PS	
Personal precautions, protecti	ve equipment and emergency procedures	
Personal precautions	For personal protection, see Section 8. Provide adequate ventilation.	
Environmental precautions		
Environmental precautions	Ventilate area. Prevent product from entering drains or waterways.	
Methods and material for containment and cleaning up		
Methods for cleaning up	Small spills: wipe up with cloth. Immediately soak cloth with water to polymerize the adhesive. Caution! Cloth containing adhesive may undergo autoignition if not soaked with water Large spills: flood area with water. When cured, remove film with a scraper.	
Reference to other sections	For personal protection, see Section 8. For waste disposal, see Section 13.	
7. Handling and storage		
Precautions for safe handling		

Usage precautions	Ensure adequate ventilation of the working area. 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.
Conditions for safe storage, in	cluding any incompatibilities
Storage precautions	Store in tightly-closed, original container in a dry and cool place. Keep away from heat, sparks and open flame. Keep container closed when not in use.
Specific end uses(s)	
Specific end use(s)	Adhesive.
8. Exposure Controls/personal	I protection
Control parameters	
Occupational exposure limits	
ETHYL 2-CYANOACRYLATE	our TWA): ACGIH 0.2 ppm 1 mg/m³
	e of Governmental Industrial Hygienists.
Exposure controls	
Appropriate engineering controls	Use positive down draft exhaust ventilation if general ventilation is insufficient to maintain vapor concentrations below established exposure limits.
Eye/face protection	Wear approved safety goggles. Use face shield in case of splash risk.
Hand protection	Nitrile rubber or Viton™ gloves are recommended. Cotton or other absorbent gloves should not be worn.
Other skin and body protection	Uniforms, coveralls, or a lab coat should be worn
Respiratory protection	No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.
9. Physical and Chemical Prop	perties
Information on basic physical	and chemical properties
Color	Clear.
Odor	Pungent. Irritating.
Odor threshold	1 - 2 ppm
рН	Not applicable.
Melting point	Not applicable.
Initial boiling point and range	>149°C (300°F)
Flash point	80°C – 93°C (176°F - 199.94°F )
Evaporation rate	Not available.

Flammability (solid, gas)Not applicable.Upper/lower flammability or<br/>explosive limitsNot available.

Vapor density

Vapor pressure ~0.6 mbar @ 25°C

Relative density	1.1 @ 25°C	
Bulk density	Not applicable.	
Solubility(ies)	Hardens in contact with water. Insoluble in water. Miscible with the following materials: acetone	
Partition coefficient	Not available.	
Auto-ignition temperature	Not available.	
Decomposition Temperature	Not available.	
Oxidizing properties	Not applicable.	
Volatile organic compound	<2 %, 20 grams/liter (Estimated)	
10. Stability and reactivity		
Reactivity	The product reacts with water and will generate heat.	
Stability	Stable at normal ambient temperatures and when used as recommended.	
Possibility of hazardous reactions	Reactions with the following materials may generate heat: Water Alcohols. Alkalis. Amines.	
Conditions to avoid	Do not add water directly to the product. It may cause a violent reaction.	
Materials to avoid	Water. Amines. Alkalis. Alcohols.	
Hazardous decomposition products	Toxic/Irritating fumes	
	Toxic/Irritating fumes	
products		
products 11. Toxicological information		
products 11. Toxicological information Information on toxicological ef	fects The toxicological properties of this product have not been fully evaluated. Avoid direct contact	
products 11. Toxicological information Information on toxicological eff Toxicological effects Skin corrosion/irritation	fects The toxicological properties of this product have not been fully evaluated. Avoid direct contact with skin or eyes. Do not ingest or inhale.	
products          11. Toxicological information         Information on toxicological eff         Toxicological effects         Skin corrosion/irritation         Skin corrosion/irritation         Serious eye damage/irritation	fects The toxicological properties of this product have not been fully evaluated. Avoid direct contact with skin or eyes. Do not ingest or inhale. Irritating to skin.	
products          11. Toxicological information         Information on toxicological eff         Toxicological effects         Skin corrosion/irritation         Skin corrosion/irritation         Serious eye damage/irritation         Serious eye damage/irritation         Respiratory sensitization	fects The toxicological properties of this product have not been fully evaluated. Avoid direct contact with skin or eyes. Do not ingest or inhale. Irritating to skin. Causes serious eye irritation.	
products11. Toxicological informationInformation on toxicological effToxicological effectsSkin corrosion/irritationSkin corrosion/irritationSerious eye damage/irritationSerious eye damage/irritationRespiratory sensitizationRespiratory sensitizationSkin sensitizationSkin sensitization	fects         The toxicological properties of this product have not been fully evaluated. Avoid direct contact with skin or eyes. Do not ingest or inhale.         Irritating to skin.         Causes serious eye irritation.         Based on available data the classification criteria are not met.	
products11. Toxicological informationInformation on toxicological effToxicological effectsSkin corrosion/irritationSkin corrosion/irritationSerious eye damage/irritationSerious eye damage/irritationRespiratory sensitizationRespiratory sensitizationSkin sensitizationSkin sensitizationSkin sensitizationGerm cell mutagenicity	fects         The toxicological properties of this product have not been fully evaluated. Avoid direct contact with skin or eyes. Do not ingest or inhale.         Irritating to skin.         Causes serious eye irritation.         Based on available data the classification criteria are not met.         Based on available data the classification criteria are not met.	

Reproductive toxicity - development	Based on available data the classification criteria are not met.	
Specific target organ toxicity - single exposure		
STOT - single exposure	STOT SE 3 - H335	
Target organs	Respiratory system, lungs	
Specific target organ toxicity -	repeated exposure	
STOT - repeated exposure	Not classified as a specific target organ toxicant after a single exposure.	
Aspiration hazard		
Aspiration hazard	Based on available data the classification criteria are not met.	
Inhalation	May cause respiratory system irritation.	
Ingestion	On contact, immediate bonding of mouth could occur.	
Skin Contact	On contact, immediate bonding of the skin will occur. May cause skin irritation.	
Eye contact	Irritating to eyes. On contact, will bond eyelids together. Vapours are lachrymatory.	
Route of exposure	Ingestion Inhalation Skin and/or eye contact	
Target Organs	Respiratory system, lungs	

Toxicological information on ingredients.

### ETHYL 2-CYANOACRYLATE

Acute toxicity - oral		
Acute toxicity oral (LD₅₀ mg/kg)	5,000.0	
Species	Rat	
ATE oral (mg/kg)	5,000.0	
Acute toxicity - dermal		
Acute toxicity dermal (LD₅₀ mg/kg)	2,000.1	
Species	Rabbit	
ATE dermal (mg/kg)	2,000.1	
Acute toxicity - inhalation		
Notes (inhalation LC <sub>50</sub> )	Not available.	
Skin corrosion/irritation		
Animal data	Dose: 0.5g, 24 hours, Rabbit Slightly irritating.	
Serious eye damage/irritation		
Serious eye damage/irritation	Method: OECD 405, Rabbit Irritating to eyes.	
Skin sensitization		
Skin sensitization	- Guinea pig: Not sensitizing.	
Germ cell mutagenicity		

	Genotoxicity - in	vitro Gene mutation: Negative. Chromosome aberration: Negative. Bacterial reverse mutation test: Negative.
	Carcinogenicity	
	Carcinogenicity	No evidence of carcinogenicity in animal studies.
	Reproductive tox	icity
	Reproductive tox fertility	icity - Technically not feasible.
	Reproductive tox development	icity - Technically not feasible.
	Specific target or	gan toxicity - single exposure
STOT - single exposure		posure No information available.
	Specific target or	gan toxicity - repeated exposure
	STOT - repeated	exposure No information available.
	Aspiration hazard	1
	Aspiration hazard	Not available.
12. Ecologic	al Information	
Ecotoxicity		There are no data on the ecotoxicity of this product.
Bioaccumula	ative potential	
Partition coe	•	Not available.
13. Disposa	l considerations	
_	ment methods	
General info		Empty containers may contain product residue: follow SDS and label warnings even after they
General Inio	Inauon	Empty containers may contain product residue; follow SDS and label warnings even after they have been emptied.
Disposal me	ethods	Dispose of according to Federal, State and local governmental regulations.
14. Transpo	rt information	
Sea transpo	ort notes	Not classified.
Air transport		Applies only to inner containers > 500ml. Inner packaging containing less than 500ml are unregulated for air transportation and may be shipped unrestricted. But inner packages containing more than 500ml meet the criteria of IATA 3.9.2.1 and are regulated. The "inner package" is the individual bottle, tube or drum, not the outer packaging such as a fiberboard box or carton containing many bottles. Permabond 3g, 20gr, 1 ounce (28.4 gr), 1 pound (454gr) and 500ml, are not restricted for air transportation.
DOT transpo	ort notes	This product is not regulated for road transportation in accordance with 49 CFR Exceptions. Please note that Cyanoacrylates are not restricted for domestic ground transportation in non bulk containers (The DOT defines a bulk container as a "Package" containing more than 450 liters. The "Package" is the individual bottle, tube or drum, not a carton containing many bottles
UN Number		
UN No. (IME	DG)	Not applicable

UN No. (ICAO)	3334	
UN No. (DOT)	NA1993	
UN proper shipping name		
Proper shipping name (IMDG)	Not applicable	
Proper shipping name (ICAO)	AVIATION REGULATED LIQUID, N.O.S (Cyanoacrylate ester)	
Proper shipping name (DOT)	COMBUSTIBLE LIQUID, N.O.S. (Cyanoacrylate ester)	
Transport hazard class(es)		
DOT hazard class	Combustible Liquid	
IMDG Class	Not applicable	
ICAO class/division	9	
Packing group		
IMDG packing group	Not applicable	
ICAO packing group	III	
DOT packing group	ш	
Environmental hazards		
Environmentally Hazardous Substance No.		

#### 15. Regulatory information

#### **US Federal Regulations**

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities None above reporting de minimis.

### CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

None above reporting limits

### SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None above reporting limits

#### SARA 313 Emission Reporting

None above reporting limits

#### SARA (311/312) Hazard Categories

Acute Chronic Fire Reactivity

#### **US State Regulations**

#### California Proposition 65 Carcinogens and Reproductive Toxins

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm

#### Inventories

#### Canada - DSL/NDSL

All the ingredients are listed or exempt.

#### US - TSCA

All the ingredients are listed or exempt.

### US - TSCA 12(b) Export Notification

None above reporting limits

16. Other information		
Classification abbreviations and acronyms	Eye Irrit. = Eye irritation Flam. Liq. = Flammable liquid Skin Irrit. = Skin irritation STOT SE = Specific target organ toxicity-single exposure	
Revision date	1/25/2018	
Revision	3	
Supersedes date	5/5/2015	
Hazard statements in full	H227 Combustible liquid. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.	

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.