

# SAFETY DATA SHEET Permabond 799

1. Identification		
Product identifier		
Product name	Permabond 799	
Recommended use of the ch	emical 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 799

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	S.

### 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	ires
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 medic	al 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	95	
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 cont	ainment 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/persona	I protection	
Control parameters		
Occupational exposure limits ETHYL 2-CYANOACRYLATE		
	bur 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	
Appearance	Liquid.	
Color	Colorless.	
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 rateNot available.Flammability (solid, gas)Not applicable.

Upper/lower flammability or Not available. explosive limits

Vapor pressure ~0.6 mbar @ 25°C

Vapor density	Not applicable.
Relative density	1.1
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.
Viscosity	≈4500 mPa s @ 23°C
Oxidizing properties	Not applicable.
Volatile organic compound	This product contains a maximum VOC content of <3 %. According to EC Directive 2004/42/EC
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
11. Toxicological information	
Information on toxicological ef	fects
Toxicological effects	The toxicological properties of this product have not been fully evaluated. Avoid direct contact with skin or eyes. Do not ingest or inhale.
Skin corrosion/irritation Skin corrosion/irritation	Irritating to skin.
Serious eye damage/irritation Serious eye damage/irritation	Causes serious eye irritation.
Respiratory sensitization Respiratory sensitization	Based on available data the classification criteria are not met.
Skin sensitization Skin sensitization	Based on available data the classification criteria are not met.
Germ cell mutagenicity Genotoxicity - in vitro	Based on available data the classification criteria are not met.
Carcinogenicity	

Carcinogenicity	Does not contain any substances known to be carcinogenic.	
Reproductive toxicity		
Reproductive toxicity - fertility	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 (LD∞ 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 sensit	zation	
Skin sensit	zation	- Guinea pig: Not sensitizing.
Germ cell n	nutagenicity	
Genotoxicit	y - in vitro	Gene mutation: Negative. Chromosome aberration: Negative. Bacterial reverse mutation test: Negative.
Carcinoger	icity	
Carcinoger	icity	No evidence of carcinogenicity in animal studies.
Reproductiv	e toxicity	
Reproducti fertility	ve toxicity -	Technically not feasible.
Reproducti developme	•	Technically not feasible.
Specific tar	get organ toxici	ity - single exposure
STOT - sing	gle exposure	No information available.
Specific tar	get organ toxici	ity - repeated exposure
STOT - rep	eated exposure	No information available.
Aspiration I	nazard	
Aspiration I	nazard	Not available.
12. Ecological Information	n	
Ecotoxicity	There a	re no data on the ecotoxicity of this product.
Bioaccumulative potentia	al	
Partition coefficient	Not ava	ilable.
13. Disposal consideration	ons	
Waste treatment method	s	
General information		containers may contain product residue; follow SDS and label warnings even after they een emptied.
Disposal methods	Dispose	e of according to Federal, State and local governmental regulations.
14. Transport information	1	
Sea transport notes	Not clas	ssified
Air transport notes		only to inner containers > 500ml. Inner packaging containing less than 500ml are
Air transport notes	unregul containi package box or c	ated for air transportation and may be shipped unrestricted. But inner packages ing more than 500ml meet the criteria of IATA 3.9.2.1 and are regulated. The "inner e" is the individual bottle, tube or drum, not the outer packaging such as a fiberboard carton containing many bottles. bond 3g, 20gr, 1 ounce (28.4 gr), 1 pound (454gr) and 500ml, are not restricted for air
DOT transport notes	Please bulk cor	oduct is not regulated for road transportation in accordance with 49 CFR Exceptions. note that Cyanoacrylates are not restricted for domestic ground transportation in non ntainers (The DOT defines a bulk container as a "Package" containing more than 450 he "Package" is the individual bottle, tube or drum, not a carton containing many

UN Number	
UN No. (IMDG)	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	III
Environmental hazards	
Environmentally Hazardous Su No.	ibstance

#### 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.