

# SAFETY DATA SHEET Permabond 102

1. Identification	
Product identifier	
Product name	Permabond 102
Recommended use of the che	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 numbe	<u>r</u>
Emergency telephone	Medical: Poison Control Center 866-827-6282 Transport: 1-800-640-7599
2. Hazard(s) identification	
Classification of the substance	e or mixture
OSHA Regulatory Status	This Product is Hazardous under the OSHA Hazard Communication Standard.
Physical hazards	Flam. Liq. 4 - H227
Health hazards	Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 STOT SE 3 - H335
Label elements	
Hazard symbols	
Signal word	Warning
Hazard statements	H227 Combustible liquid. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

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.
	P321 Specific treatment (see medical advice on this label).
	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 cool.
	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 condition	IS.
3. Composition/information o	n ingredients
Mixtures	
ETHYL 2-CYANOACRYLAT	ГЕ 60-100%
CAS number: 7085-85-0	
Classification	
Skin Irrit. 2 - H315	
Eye Irrit. 2A - H319	
STOT SE 3 - H335	
The full text for all hazard sta	atements is displayed in Section 16.
Composition comments	Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.
1 First-aid measures	

4. First-aid measures Description of first aid measures	
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 medica	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	S	
Personal precautions, protectiv	e 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/Persona	l protection	
Control parameters		
Occupational exposure limits		
ETHYL 2-CYANOACRYLATE		
Long-term exposure limit (8-ho	our TWA): ACGIH 0.2 ppm	
Short-term exposure limit (15-	minute): ACGIH 1 ppm	
DSens, RSens ACGIH = American Conferenc	e of Governmental Industrial Hygienists.	
DSens = Dermal sensitizer. RSens = Respiratory sensitize	۲.	
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	Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. Ensure all respiratory protective equipment is suitable for its intended use and is NIOSH approved.	
9. Physical and chemical properties		
Information on basic physical and chemical properties		
Appearance	Clear liquid.	

ColorColorless.OdorIrritating.Odor threshold1 - 2 ppmpHNot available.Melting pointNot available.Initial boiling point and range>149°C (300°F)Flash point80°C - 93°C (176°F - 199.94°F)Evaporation rateNot available.	Appearance	Clear liquid.
Odor threshold1 - 2 ppmpHNot available.Melting pointNot available.Initial boiling point and range>149°C (300°F)Flash point80°C - 93°C (176°F - 199.94°F )	Color	Colorless.
pHNot available.Melting pointNot available.Initial boiling point and range>149°C (300°F)Flash point80°C - 93°C (176°F - 199.94°F )	Odor	Irritating.
Melting pointNot available.Initial boiling point and range>149°C (300°F)Flash point80°C - 93°C (176°F - 199.94°F )	Odor threshold	1 - 2 ppm
Initial boiling point and range         >149°C (300°F)           Flash point         80°C – 93°C (176°F - 199.94°F )	рН	Not available.
Flash point         80°C – 93°C (176°F - 199.94°F )	Melting point	Not available.
	Initial boiling point and range	>149°C (300°F)
Evaporation rate Not available.	Flash point	80°C – 93°C (176°F - 199.94°F )
	Evaporation rate	Not available.

Flammability (solid, gas)	Not applicable.	
Upper/lower flammability or explosive limits	Not available.	
Vapor pressure	<0.3 mm Hg at 25°C	
Vapor density	Approximately 3	
Relative density	1.1	
Bulk density	Not applicable.	
Solubility(ies)	Hardens in contact with water.	
Auto-ignition temperature	905°F	
Decomposition Temperature	Not available.	
Viscosity	1 - 3 cP @ 25°C	
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	
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.	
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		

Poproductivo tovicity		
Reproductive toxicity Reproductive toxicity - fertility	Based on available data the classification criteria are not met.	
Reproductive toxicity -	Based on available data the classification criteria are not met.	
development		
Specific target organ toxicity - single exposure		
STOT - single exposure	STOT SE 3 - H335	
Specific target organ toxicity		
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.	
Target Organs	Respiratory system, lungs	
Toxicological information on i	ingredients.	
	ETHYL 2-CYANOACRYLATE	
Acute toxicity - i	nhalation	
Notes (inhalatio	n LC₅₀) Not available.	
Skin corrosion/i	rritation	
Animal data	Dose: 0.5g, 24 hours, Rabbit Slightly irritating.	
Serious eye dar	nage/irritation	
Serious eye damage/irritatio	Method: OECD 405, Rabbit Irritating to eyes. n	
Skin sensitizatio	on de la contraction de la contractica de la c	
Skin sensitizatio	on - Guinea pig: Not sensitizing.	
Germ cell mutag	genicity	
Genotoxicity - ir	<b>vitro</b> Gene mutation: Negative. Chromosome aberration: Negative. Bacterial reverse mutation test: Negative.	
Carcinogenicity		
Carcinogenicity	No evidence of carcinogenicity in animal studies.	
Reproductive to	xicity	
Reproductive to fertility	xicity - Technically not feasible.	
Reproductive to development	xicity - Technically not feasible.	
Specific target of	organ toxicity - single exposure	
STOT - single e	xposure No information available.	
Specific target of	organ toxicity - repeated exposure	
STOT - repeate	<b>d exposure</b> No information available.	

Aspiration hazard

Aspiration hazard Not available.

### 12. Ecological information

Ecotoxicity	There are no data on the ecotoxicity of this product.
13. Disposal considerations	
Waste treatment methods	
General information	Empty containers may contain product residue; follow SDS and label warnings even after they have been emptied.
Disposal methods	Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations
14. Transport information	
Sea transport notes	Not classified.
Air transport notes	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 transport 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. (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)	
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 So No.	ubstance

#### 15. Regulatory information

#### **US Federal Regulations**

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities None of the ingredients are listed or exempt.

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

None of the ingredients are listed or exempt.

### SARA Extremely Hazardous Substances EPCRA Reportable Quantities

Not listed.

#### SARA 313 Emission Reporting

None of the ingredients are listed or exempt.

#### 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.

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	12/14/2021
Revision	6
Supersedes date	11/16/2018
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.