



## SAFETY DATA SHEET

### Permabond 825

#### 1. Identification

##### Product identifier

**Product name** Permabond 825

##### 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** Not Classified

**Health hazards** Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 STOT SE 3 - H335

##### Label elements

##### **Hazard symbols**



**Signal word** Warning

**Hazard statements** H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

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### Precautionary statements

P261 Avoid breathing vapor/ spray.  
 P264 Wash contaminated skin thoroughly after handling.  
 P271 Use only outdoors or in a well-ventilated area.  
 P273 Avoid release to the environment.  
 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.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 P405 Store locked up.  
 P501 Dispose of contents/ container in accordance with national regulations.

### Contains

ETHYL 2-CYANOACRYLATE

### Other hazards

None under normal conditions.

### 3. Composition/information on ingredients

#### Mixtures

<b>ETHYL 2-CYANOACRYLATE</b> CAS number: 7085-85-0	30-60%
<b>Classification</b> Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 STOT SE 3 - H335	
<b>POLY(OXY-1,2-ETHANEDIYL), A,A'-[(1-METHYLETHYLIDENE)DI-4,1-PHENYLENE]BIS[O-[(2-METHYL-1-OXO-2-PROPEN-1-YL)OXY]-</b> CAS number: 41637-38-1	5-10%
<b>Classification</b> Not relevant.	
<b>Tert-butyl Perbenzoate</b> CAS number: 614-45-9	<1%
<b>Classification</b> Org. Perox. C - H242 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Skin Sens. 1B - H317 Not relevant.	

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<b>CYCLOHEXANE</b>	<b>&lt;1%</b>
CAS number: 110-82-7	
<b>Classification</b> Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304 Not relevant.	
<b>1,4-DICHLOROBENZENE</b>	<b>&lt;1%</b>
CAS number: 106-46-7	
<b>Classification</b> Eye Irrit. 2A - H319 Carc. 2 - H351 Not relevant.	
<b>CHLOROBENZENE</b>	<b>&lt;1%</b>
CAS number: 108-90-7	
<b>Classification</b> Flam. Liq. 3 - H226 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Not relevant.	

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 measures

<b>Inhalation</b>	Get medical attention if any discomfort continues.
<b>Ingestion</b>	On contact, immediate bonding of mouth could occur. Do not induce vomiting. Get medical attention.
<b>Skin Contact</b>	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.
<b>Eye contact</b>	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

<b>Inhalation</b>	Irritation of nose, throat and airway.
<b>Ingestion</b>	On contact, immediate bonding of mouth could occur.
<b>Skin contact</b>	Prolonged skin contact may cause redness and irritation.

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**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** Decomposes upon heating to release toxic fumes of nitrogen oxides, carbon monoxide, carbon dioxide, and hydrogen cyanide.

### 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 measures

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** For personal protection, see Section 8. Provide adequate ventilation.

### Environmental precautions

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground.

### 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. Avoid contact with skin, eyes and clothing. Avoid breathing vapours. Always replace cap after use.

### Conditions for safe storage, including 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 tightly sealed when not in use.

### Specific end uses(s)

**Specific end use(s)** Adhesive.

## 8. Exposure controls/Personal protection

### Control parameters

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### Occupational exposure limits

#### **ETHYL 2-CYANOACRYLATE**

Long-term exposure limit (8-hour TWA): ACGIH 0.2 ppm 1 mg/m<sup>3</sup>

#### **CYCLOHEXANE**

Long-term exposure limit (8-hour TWA): ACGIH 100 ppm 344 mg/m<sup>3</sup>

Long-term exposure limit (8-hour TWA): OSHA 300 ppm 1050 mg/m<sup>3</sup>

#### **1,4-DICHLOROBENZENE**

Long-term exposure limit (8-hour TWA): OSHA 75 ppm 450 mg/m<sup>3</sup>

Long-term exposure limit (8-hour TWA): ACGIH 10 ppm 60 mg/m<sup>3</sup>

A3

#### **CHLOROBENZENE**

Long-term exposure limit (8-hour TWA): OSHA 75 ppm 350 mg/m<sup>3</sup>

Long-term exposure limit (8-hour TWA): ACGIH 10 ppm 46 mg/m<sup>3</sup>

A3

ACGIH = American Conference of Governmental Industrial Hygienists.

OSHA = Occupational Safety and Health Administration.

A3 = Confirmed Animal Carcinogen with Unknown Relevance to Humans.

### Exposure controls

<b>Appropriate engineering controls</b>	Observe any occupational exposure limits for the product or ingredients. Mechanical ventilation or local exhaust ventilation may be required.
<b>Eye/face protection</b>	Chemical splash goggles or face shield. Personal protective equipment for eye and face protection should comply with OSHA 1910.133.
<b>Hand protection</b>	Nitrile rubber or Viton™ gloves are recommended. Cotton or other absorbent gloves should not be worn.
<b>Other skin and body protection</b>	Uniforms, coveralls, or a lab coat should be worn
<b>Respiratory protection</b>	No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

<b>Appearance</b>	Liquid.
<b>Color</b>	Colorless.
<b>Odor</b>	Pungent. Irritating.
<b>Odor threshold</b>	1 - 2 ppm
<b>pH</b>	Not applicable.
<b>Melting point</b>	Not applicable.
<b>Initial boiling point and range</b>	>149°C (300°F)
<b>Flash point</b>	80°C – 93°C (176°F - 199.94°F )
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	Not available.

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Vapor pressure	~0.6 mbar @ 25°C
Vapor density	Not applicable.
Relative density	1.05
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	≈120 mPa s @ 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	Heating may generate the following products: Toxic gases/vapors/fumes of: Carbon dioxide (CO <sub>2</sub> ). Carbon monoxide (CO). Nitrous gases (NO <sub>x</sub> ). Hydrogen cyanide (HCN).

### 11. Toxicological information

#### Information on toxicological effects

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.
<u>Skin corrosion/irritation</u>	
Skin corrosion/irritation	Irritating to skin.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Causes serious eye irritation.
<u>Respiratory sensitization</u>	
Respiratory sensitization	Based on available data the classification criteria are not met.
<u>Skin sensitization</u>	
Skin sensitization	Based on available data the classification criteria are not met.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Based on available data the classification criteria are not met.
<u>Carcinogenicity</u>	

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**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

## 12. Ecological information

**Ecotoxicity** There are no data on the ecotoxicity of this product.

### Bioaccumulative potential

**Partition coefficient** Not available.

## 13. Disposal considerations

### Waste treatment methods

**General information** Dispose of according to Federal, State/Provincial and local regulations. Refer to section 8 before handling.

## 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.

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### 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)

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 Substance  
No.

## 15. Regulatory information

### US Federal Regulations

#### SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

None above reporting limits.

#### 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



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### California Proposition 65 Carcinogens and Reproductive Toxins

This product can expose you to chemicals including those listed below, which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

*1,4-DICHLOROBENZENE*

### 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

<b>Classification abbreviations and acronyms</b>	Eye Irrit. = Eye irritation Flam. Liq. = Flammable liquid Skin Irrit. = Skin irritation STOT SE = Specific target organ toxicity-single exposure
<b>Revision date</b>	1/31/2020
<b>Revision</b>	2
<b>Supersedes date</b>	10/11/2019
<b>Hazard statements in full</b>	H225 Highly flammable liquid and vapor. H226 Flammable liquid and vapor. H242 Heating may cause a fire. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer.

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