

# Permabond®

## Engineering Adhesives

### SAFETY DATA SHEET

#### Permabond QFS10



#### 1. Identification

##### Product identifier

**Product name** Permabond QFS10

##### Recommended use of the chemical and restrictions on use

**Restriction on use** Primer.

##### 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 identification

##### Classification of the substance or mixture

**Physical hazards** Flam. Liq. 2 - H225  
**Health hazards** Eye Irrit. 2 - H319 STOT SE 3 - H336  
**Environmental hazards** Not Classified

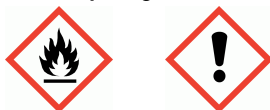
**Human health** In high concentrations, vapours and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea. Irritating to eyes. Repeated exposure may cause skin dryness or cracking.

**Environmental** Very toxic to aquatic life with long lasting effects.

**Physicochemical** The product is highly flammable, and explosive vapours/air mixtures may be formed even at normal room temperatures.

##### Label elements

##### Hazard pictograms



**Signal word** Danger

**Hazard statements** H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

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<b>Precautionary statements</b>	<p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P240 Ground and bond container and receiving equipment.</p> <p>P241 Use explosion-proof electrical equipment.</p> <p>P242 Use non-sparking tools.</p> <p>P243 Take action to prevent static discharges.</p> <p>P261 Avoid breathing vapour/ spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].</p> <p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P312 Call a POISON CENTRE/doctor if you feel unwell.</p> <p>P337+P313 If eye irritation persists: Get medical advice/ attention.</p> <p>P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.</p> <p>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P403+P235 Store in a well-ventilated place. Keep cool.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
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**Contains** ETHYL ACETATE

### 3. Composition/information on ingredients

#### Mixtures

<b>ETHYL ACETATE</b>	<b>60-100%</b>
CAS number: 141-78-6	
<b>Classification</b>	
Flam. Liq. 2 - H225	
Eye Irrit. 2 - H319	
STOT SE 3 - H336	
<b>N,N-DIMETHYL-PARA-TOLUIDINE</b>	<b>&lt;1%</b>
CAS number: 99-97-8	
<b>Classification</b>	
Acute Tox. 3 - H301	
Acute Tox. 3 - H311	
Acute Tox. 3 - H331	
STOT RE 2 - H373	
Aquatic Chronic 3 - H412	

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

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<b>Inhalation</b>	Move affected person to fresh air at once. If breathing stops, provide artificial respiration. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Do not induce vomiting. Get medical attention.
<b>Skin contact</b>	Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if symptoms are severe or persist after washing.

### Most important symptoms and effects, both acute and delayed

<b>Inhalation</b>	Vapours may cause drowsiness and dizziness.
<b>Eye contact</b>	Causes serious eye irritation.

### 5. Fire-fighting measures

#### Extinguishing media

<b>Suitable extinguishing media</b>	Foam, carbon dioxide or dry powder.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

#### Specific hazards arising from the hazardous product

<b>Specific hazards</b>	The product is flammable. Heating may generate flammable vapours. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back.
<b>Hazardous combustion products</b>	Irritating gases or vapours. Toxic gases or vapours. Carbon dioxide (CO <sub>2</sub> ). Carbon monoxide (CO).
<b>Advice for firefighters</b>	
<b>Protective actions during firefighting</b>	Containers close to fire should be removed or cooled with water.
<b>Special protective equipment for firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet. Eliminate all sources of ignition. Provide adequate ventilation.
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#### Environmental precautions

<b>Environmental precautions</b>	Avoid the spillage or runoff entering drains, sewers or watercourses.
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#### Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	Absorb in vermiculite, dry sand or earth and place into containers.
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#### Reference to other sections

<b>Reference to other sections</b>	For personal protection, see Section 8. For waste disposal, see section 13.
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### 7. Handling and storage

#### Precautions for safe handling

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**Usage precautions** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. During application and drying, solvent vapours will be emitted. Avoid contact with skin and eyes. Avoid breathing vapours.

### Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Storage class** Flammable liquid storage.

### Specific end use(s)

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

## 8. Exposure controls/Personal protection

### Control parameters

### Occupational exposure limits

#### ETHYL ACETATE

Long-term exposure limit (8-hour TWA): ACGIH 400 ppm 1440 mg/m<sup>3</sup>

ACGIH = American Conference of Governmental Industrial Hygienists.

### Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

#### Eye/face protection

The following protection should be worn: Chemical splash goggles or face shield.

#### Hand protection

It is recommended that chemical-resistant, impervious gloves are worn. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.

#### Other skin and body protection

Use engineering controls to reduce air contamination to permissible exposure level. Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact. Provide eyewash station and safety shower. Uniforms, coveralls, or a lab coat should be worn

#### Hygiene measures

Wash at the end of each work shift and before eating, smoking and using the toilet. Use of good industrial hygiene practices is required.

#### Respiratory protection

Provide adequate ventilation. Respiratory protection may be required if excessive airborne contamination occurs. 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

**Colour** Colourless.

**Odour** Characteristic.

**Odour threshold** Not available.

**pH** Not relevant.

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<b>Melting point</b>	-84°C/-119°F
<b>Initial boiling point and range</b>	76.5°C/169.7°F
<b>Flash point</b>	-3°C/26.6°F
<b>Evaporation rate</b>	Not determined.
<b>Upper/lower flammability or explosive limits</b>	Upper flammable/explosive limit: 11.5 % Lower flammable/explosive limit: 2.2 %
<b>Vapour pressure</b>	73.0 mm Hg @ 20°C
<b>Vapour density</b>	Not available.
<b>Relative density</b>	0.9 g/cm <sup>3</sup> @ 20°C
<b>Solubility(ies)</b>	Soluble in water.
<b>Partition coefficient</b>	Not determined.
<b>Auto-ignition temperature</b>	427°C/800.6°F
<b>Decomposition Temperature</b>	Not available.
<b>Explosive properties</b>	Not determined.
<b>Oxidising properties</b>	Not available.

### 10. Stability and reactivity

<b>Reactivity</b>	The following materials may react with the product: Strong oxidizing agents.
<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended.
<b>Possibility of hazardous reactions</b>	There are no known reactivity hazards associated with this product.
<b>Conditions to avoid</b>	Avoid heat, flames and other sources of ignition.
<b>Materials to avoid</b>	Acids. Strong oxidizing agents.
<b>Hazardous decomposition products</b>	No data available.

### 11. Toxicological information

#### Information on toxicological effects

<b>Toxicological effects</b>	Information given is based on data of the components and of similar products. Avoid breathing vapours. Avoid contact with eyes and prolonged skin contact.
<b><u>Skin corrosion/irritation</u></b>	
<b>Skin corrosion/irritation</b>	Irritating to skin.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Slightly irritating.
<b><u>Respiratory sensitization</u></b>	
<b>Respiratory sensitization</b>	Based on available data the classification criteria are not met.
<b><u>Skin sensitization</u></b>	

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<b>Skin sensitization</b>	Based on available data the classification criteria are not met.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Based on available data the classification criteria are not met.
<b>Genotoxicity - in vivo</b>	Based on available data the classification criteria are not met.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	No component of this product present at levels great than or equal to 0.1% is identified as a known carcinogen.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	Based on available data the classification criteria are not met.
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	A single exposure may cause the following adverse effects: May cause drowsiness or dizziness.
<b>Target organs</b>	Central nervous system
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	Based on available data the classification criteria are not met.
<b><u>Aspiration hazard</u></b>	
<b>Aspiration hazard</b>	Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.
<b>Inhalation</b>	Vapours have a narcotic effect. May cause respiratory system irritation.
<b>Eye contact</b>	Irritating and may cause redness and pain.
<b>Route of exposure</b>	Inhalation Skin and/or eye contact

### 12. Ecological information

<b>Toxicity</b>	No information available.
<b><u>Bioaccumulative potential</u></b>	
<b>Partition coefficient</b>	Not determined.
<b><u>Other adverse effects</u></b>	
<b>Other adverse effects</b>	None known.

### 13. Disposal considerations

#### Waste treatment methods

<b>General information</b>	Dispose of according to Federal, State/Provincial and local regulations. Refer to section 8 before handling. Empty containers may contain product residue; follow SDS and label warnings even after they have been emptied.
<b>Disposal methods</b>	Absorb in vermiculite, dry sand or earth and place into containers. Dispose of waste via a licensed waste disposal contractor. Containers should be thoroughly emptied before disposal because of the risk of an explosion.

### 14. Transport information

#### UN number

<b>UN No. (IMDG)</b>	1173
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## Permabond QFS10

UN No. (ICAO) 1173

UN No. (DOT) UN1173

### UN proper shipping name

Proper shipping name (IMDG) ETHYL ACETATE

Proper shipping name (ICAO) ETHYL ACETATE

Proper shipping name (DOT) ETHYL ACETATE

### Transport hazard class(es)

DOT class 3

DOT hazard label 3

IMDG class 3

ICAO class/division 3

### Transport labels



### DOT transport label



### Packing group

IMDG packing group II

ICAO packing group II

DOT packing group II

### Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

## 15. Regulatory information

### 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

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<b>Classification abbreviations and acronyms</b>	Flam. Liq. = Flammable liquid Eye Irrit. = Eye irritation Skin Irrit. = Skin irritation STOT SE = Specific target organ toxicity-single exposure Asp. Tox. = Aspiration hazard
<b>Revision date</b>	2020-10-15
<b>Revision</b>	4
<b>Supersedes date</b>	2018-10-23
<b>Hazard statements in full</b>	H225 Highly flammable liquid and vapour. H301 Toxic if swallowed. H311 Toxic in contact with skin. H319 Causes serious eye irritation. H331 Toxic if inhaled. H336 May cause drowsiness or dizziness. H373 May cause damage to organs through prolonged or repeated exposure. H412 Harmful to aquatic life with long lasting effects.



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