

# Permabond®

## Engineering Adhesives

### SAFETY DATA SHEET

#### Permabond ET5401B

#### 1. Identification

##### Product identifier

**Product name** Permabond ET5401B

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

**Application** Two-component, epoxy-based 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 Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Repr. 2 - H361 STOT RE 1 - H372

##### Label elements

##### Hazard symbols



**Signal word**

Danger

##### Hazard statements

H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H361 Suspected of damaging fertility or the unborn child.  
H372 Causes damage to organs through prolonged or repeated exposure.

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<b>Precautionary statements</b>	<p>P201 Obtain special instructions before use.</p> <p>P202 Do not handle until all safety precautions have been read and understood.</p> <p>P260 Do not breathe vapor/ spray.</p> <p>P261 Avoid breathing vapor/ spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P270 Do not eat, drink or smoke when using this product.</p> <p>P272 Contaminated work clothing must not be allowed out of the workplace.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.</p> <p>P302+P352 If on skin: Wash with plenty of water.</p> <p>P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ 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>P308+P313 If exposed or concerned: Get medical advice/ attention.</p> <p>P310 Immediately call a poison center/ doctor.</p> <p>P314 Get medical advice/ attention if you feel unwell.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P363 Wash contaminated clothing before reuse.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
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<b>Contains</b>	<p>ATBN POLYMER, POLYOXYPROPYLENEDIAMINE, 2-PIPERAZIN-1-YLETHYLAMINE, 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL, 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE, BIS[(DIMETHYLAMINO)METHYL]PHENOL</p>
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### Other hazards

None under normal conditions.

### 3. Composition/information on ingredients

#### Mixtures

<b>ATBN POLYMER</b> <span style="float: right;"><b>30-60%</b></span> CAS number: 68683-29-4 REACH registration exemption – POLYMER
<b>Classification</b> Skin Irrit. 2 - H315 Skin Sens. 1 - H317
<b>POLYOXYPROPYLENEDIAMINE</b> <span style="float: right;"><b>10-30%</b></span> CAS number: 9046-10-0
<b>Classification</b> Skin Corr. 1B - H314 Eye Dam. 1 - H318 Not relevant.

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<b>2-PIPERAZIN-1-YLETHYLAMINE</b>	<b>5-10%</b>
CAS number: 140-31-8	
<b>Classification</b> Acute Tox. 4 - H302 Acute Tox. 3 - H311 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Repr. 2 - H361 STOT RE 1 - H372 Not relevant.	
<b>2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL</b>	<b>1-5%</b>
CAS number: 90-72-2	
<b>Classification</b> Skin Corr. 1A - H314 Skin Sens. 1 - H317	
<b>3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE</b>	<b>1-5%</b>
CAS number: 2855-13-2	
<b>Classification</b> Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Not relevant.	
<b>BIS[(DIMETHYLAMINO)METHYL]PHENOL</b>	<b>1-5%</b>
CAS number: 71074-89-0	
IMPURITY	
<b>Classification</b> Skin Corr. 1B - H314 Eye Dam. 1 - H318	

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>	Move the exposed person to fresh air. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.

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<b>Skin Contact</b>	Remove contaminated clothing. Wash skin thoroughly with soap and water. If symptoms develop, obtain medical attention
<b>Eye contact</b>	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Remove any contact lenses and open eyelids wide apart. Get medical attention immediately.

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

<b>Ingestion</b>	May cause chemical burns in mouth and throat.
<b>Skin contact</b>	Chemical burns. Mild dermatitis, allergic skin rash.
<b>Eye contact</b>	Causes serious eye damage.

### Indication of immediate medical attention and special treatment needed

<b>Notes for the doctor</b>	No specific recommendations. Treat symptomatically.
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## 5. Fire-fighting measures

### Extinguishing media

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

### Special hazards arising from the substance or mixture

<b>Hazardous combustion products</b>	Burning produces irritating, toxic and obnoxious fumes. Nitrous gases (NOx). Carbon monoxide, carbon dioxide, and unknown hydrocarbons.
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### Advice for firefighters

<b>Special protective equipment for firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
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## 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.
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### Environmental precautions

<b>Environmental precautions</b>	Do not discharge into drains or watercourses or onto the ground.
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### Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	Absorb spillage with sand or other inert absorbent. Transfer to suitable, labelled containers for disposal.
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<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

<b>Usage precautions</b>	Avoid contact with skin, eyes and clothing. Do not breathe gas, fume, vapours or spray. Wash hands thoroughly after handling. Use only in well-ventilated areas. Keep container tightly sealed when not in use.
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### Conditions for safe storage, including any incompatibilities

<b>Storage precautions</b>	Store in tightly-closed, original container in a dry, cool and well-ventilated place.
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### Specific end uses(s)

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

### 8. Exposure controls/Personal protection

#### Exposure controls

<b>Appropriate engineering controls</b>	Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.
<b>Eye/face protection</b>	The following protection should be worn: Chemical splash goggles or face shield.
<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>	Employee must wear appropriate protective clothing and equipment to prevent any possibility of skin contact with this substance.
<b>Hygiene measures</b>	Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin.
<b>Respiratory protection</b>	No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.

### 9. Physical and chemical properties

#### Information on basic physical and chemical properties

<b>Appearance</b>	Paste.
<b>Color</b>	Black.
<b>Odor</b>	Amine.
<b>Odor threshold</b>	Not determined.
<b>pH</b>	Not determined.
<b>Melting point</b>	Not determined.
<b>Initial boiling point and range</b>	Not determined.
<b>Flash point</b>	>100°C
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	Not available.
<b>Vapor pressure</b>	Not determined.
<b>Vapor density</b>	Not determined.
<b>Relative density</b>	1.1 @ 23°C
<b>Solubility(ies)</b>	Slightly soluble in water. Soluble in the following materials: Organic solvents.
<b>Partition coefficient</b>	Not available.
<b>Auto-ignition temperature</b>	Not determined.
<b>Decomposition Temperature</b>	Not determined.
<b>Viscosity</b>	200,000 cP @ 23°C
<b>Explosive properties</b>	Not determined.

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<b>Oxidizing properties</b>	Not applicable.
<b>Other information</b>	Not relevant.
<b>Volatile organic compound</b>	<2 %, 20 grams/liter (Estimated)

### 10. Stability and reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
<b>Stability</b>	Stable at normal ambient temperatures.
<b>Possibility of hazardous reactions</b>	Reactions with the following materials may generate heat: Epoxy Resin
<b>Conditions to avoid</b>	Avoid excessive heat for prolonged periods of time.
<b>Materials to avoid</b>	Avoid contact with the following materials: Acids. Oxidizing agents.
<b>Hazardous decomposition products</b>	Thermal decomposition could produce carbon monoxide, carbon dioxide, and unidentified organic compounds.

### 11. Toxicological information

#### Information on toxicological effects

<b>Toxicological effects</b>	The toxicological properties of this product have not been fully evaluated. Use of good industrial hygiene practices is required. Avoid direct contact with skin or eyes. Do not ingest or inhale.
<b><u>Skin corrosion/irritation</u></b>	
<b>Skin corrosion/irritation</b>	Causes burns.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Causes serious eye damage.
<b><u>Skin sensitization</u></b>	
<b>Skin sensitization</b>	May cause sensitisation by skin contact.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Based on available data the classification criteria are not met.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	Does not contain any substances known to be carcinogenic.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	Contains a substance/a group of substances which may damage the unborn child.
<b>Reproductive toxicity - development</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>	Based on available data the classification criteria are not met.
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	Contact with concentrated chemical may cause severe skin damage.
<b><u>Aspiration hazard</u></b>	
<b>Aspiration hazard</b>	Based on available data the classification criteria are not met.

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<b>Inhalation</b>	Unlikely to be hazardous by inhalation because of the low vapor pressure of the product at ambient temperature. Gas or vapor in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing.
<b>Ingestion</b>	Causes burns. May cause chemical burns in mouth and throat. May cause stomach pain or vomiting.
<b>Skin Contact</b>	This product is strongly irritating. Prolonged contact may cause burns.
<b>Eye contact</b>	Causes serious eye damage.
<b>Acute and chronic health hazards</b>	This product is strongly irritating. Causes burns. May cause chemical eye burns.
<b>Route of exposure</b>	Skin and/or eye contact

### Toxicological information on ingredients.

#### ATBN POLYMER

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 15,400.0

**Species** Rat

##### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 3,000.0

**Species** Rabbit

##### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** No specific test data are available.

##### Skin corrosion/irritation

**Skin corrosion/irritation** Moderately irritating. Rabbit

##### Serious eye damage/irritation

**Serious eye damage/irritation** Slightly irritating. Rabbit

##### Skin sensitization

**Skin sensitization** Sensitizing. Guinea pig

##### Germ cell mutagenicity

**Genotoxicity - in vitro** No specific test data are available.

##### Carcinogenicity

**Carcinogenicity** No specific test data are available.

##### Reproductive toxicity

**Reproductive toxicity - fertility** No specific test data are available.

##### Specific target organ toxicity - single exposure

**STOT - single exposure** Based on available data the classification criteria are not met.

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### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** No information available.

### Aspiration hazard

**Aspiration hazard** Based on available data the classification criteria are not met.

### POLYOXYPROPYLENEDIAMINE

#### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 2,885.3

**Species** Rat

#### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 2,979.7

**Species** Rabbit

#### Skin corrosion/irritation

**Animal data** Corrosive.

#### Serious eye damage/irritation

**Serious eye damage/irritation** Corrosive

#### Germ cell mutagenicity

**Genotoxicity - in vitro** Negative.

**Genotoxicity - in vivo** Negative.

#### Reproductive toxicity

**Reproductive toxicity - development** Developmental toxicity: - NOAEL: 30 mg/kg, Dermal, Rat

### Specific target organ toxicity - single exposure

**STOT - single exposure** Not available.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Not available.

### Aspiration hazard

**Aspiration hazard** Not available.

**Ingestion** May cause burns in mucous membranes, throat, esophagus and stomach.

**Skin Contact** Causes severe burns.

**Eye contact** Causes serious eye damage.

### 2-PIPERAZIN-1-YLETHYLAMINE

#### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 1,500.0



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<b>Species</b>	Rat
<b><u>Acute toxicity - dermal</u></b>	
<b>Acute toxicity dermal (LD<sub>50</sub> mg/kg)</b>	866.0
<b>Species</b>	Rabbit
<b><u>Acute toxicity - inhalation</u></b>	
<b>Notes (inhalation LC<sub>50</sub>)</b>	No information available.
<b><u>Skin corrosion/irritation</u></b>	
<b>Animal data</b>	Severe skin irritation. Rabbit
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Highly irritating. Rabbit
<b><u>Skin sensitization</u></b>	
<b>Skin sensitization</b>	Guinea pig maximization test (GPMT) - Guinea pig: Sensitizing.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Gene mutation: Negative.
<b>Genotoxicity - in vivo</b>	Chromosome aberration: Negative.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	No information available.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	Screening - NOAEC 8000 mg/l, Oral, Rat P
<b>Reproductive toxicity - development</b>	Developmental toxicity: - NOAEL: 75 mg/kg/day, Oral, Rabbit
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	No information available.
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	No information available.
<b><u>Aspiration hazard</u></b>	
<b>Aspiration hazard</b>	No information available.
<b><u>2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL</u></b>	
<b><u>Acute toxicity - oral</u></b>	
<b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b>	2,169.0
<b>Species</b>	Rat
<b><u>Acute toxicity - dermal</u></b>	
<b>Acute toxicity dermal (LD<sub>50</sub> mg/kg)</b>	1,280.0

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<b>Species</b>	Rat
<b><u>Acute toxicity - inhalation</u></b>	
<b>Notes (inhalation LC<sub>50</sub>)</b>	No information available.
<b><u>Skin corrosion/irritation</u></b>	
<b>Animal data</b>	Method: OECD 404, Rabbit Corrosive.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Irritating to eyes. Risk of serious damage to eyes.
<b><u>Skin sensitization</u></b>	
<b>Skin sensitization</b>	Guinea pig maximization test (GPMT) - Guinea pig: Sensitizing.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Gene mutation: Negative.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	Not available.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	Screening - NOAEL 15 mg/kg/day, Oral, Rat F1
<b>Reproductive toxicity - development</b>	Developmental toxicity: - NOAEL: >150 mg/kg/day, Oral, Rat
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	No information available.
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	No information available.
<b><u>Aspiration hazard</u></b>	
<b>Aspiration hazard</b>	Not available.

### 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE

<b><u>Acute toxicity - oral</u></b>	
<b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b>	1,030.0
<b>Species</b>	Rat
<b><u>Acute toxicity - dermal</u></b>	
<b>Acute toxicity dermal (LD<sub>50</sub> mg/kg)</b>	2,000.0
<b>Species</b>	Rat
<b><u>Acute toxicity - inhalation</u></b>	
<b>Notes (inhalation LC<sub>50</sub>)</b>	No information available.
<b><u>Skin corrosion/irritation</u></b>	
<b>Skin corrosion/irritation</b>	Corrosive to skin.

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### Serious eye damage/irritation

**Serious eye damage/irritation** Method: OECD 405, Rabbit Corrosive

### Skin sensitization

**Skin sensitization** Guinea pig maximization test (GPMT) - Guinea pig: Sensitizing.

### Germ cell mutagenicity

**Genotoxicity - in vitro** Gene mutation: Negative.

**Genotoxicity - in vivo** Chromosome aberration: Negative.

### Carcinogenicity

**Carcinogenicity** No information available.

### Reproductive toxicity

**Reproductive toxicity - fertility** No information available.

**Reproductive toxicity - development** Developmental toxicity: - NOAEL: >250 mg/kg/day, Oral, Rat

### Specific target organ toxicity - single exposure

**STOT - single exposure** Based on available data the classification criteria are not met.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Based on available data the classification criteria are not met.

### Aspiration hazard

**Aspiration hazard** Based on available data the classification criteria are not met.

## 12. Ecological information

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

### Bioaccumulative potential

**Partition coefficient** Not available.

## 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 according to Federal, State/Provincial and local regulations. Refer to section 8 before handling.

## 14. Transport information

### UN Number

**UN No. (IMDG)** 2735

**UN No. (ICAO)** 2735

**UN No. (DOT)** UN2735

### UN proper shipping name

## Permabond ET5401B

**Proper shipping name (IMDG)** POLYAMINES, LIQUID, CORROSIVE, N.O.S (contains Polyoxypropylenediamine and 2-Piperazin-1-ylethylamine)

**Proper shipping name (ICAO)** POLYAMINES, LIQUID, CORROSIVE, N.O.S (contains Polyoxypropylenediamine and 2-Piperazin-1-ylethylamine)

**Proper shipping name (DOT)** POLYAMINES, LIQUID, CORROSIVE, N.O.S. (contains Polyoxypropylenediamine and 2-Piperazin-1-ylethylamine)

### Transport hazard class(es)

DOT hazard class 8

DOT hazard label 8

IMDG Class 8

ICAO class/division 8

### Transport labels



### DOT transport labels



### Packing group

IMDG packing group III

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

### US State Regulations

## Permabond ET5401B

### 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

<b>Classification abbreviations and acronyms</b>	Eye Dam. = Serious eye damage Skin Corr. = Skin corrosion Skin Sens. = Skin sensitisation
<b>Revision date</b>	4/2/2020
<b>Revision</b>	1
<b>Hazard statements in full</b>	H302 Harmful if swallowed. H311 Toxic in contact with skin. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H361 Suspected of damaging fertility or the unborn child. H372 Causes damage to organs through prolonged or repeated exposure.

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