

# Permabond®

Engineering Adhesives

## SAFETY DATA SHEET

### Permabond HH120

#### 1. Identification

##### Product identifier

Product name Permabond HH120

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

Application Adhesive. Sealant.

##### 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



chemical-concepts.com  
**800.220.1966**  
410 Pike Road • Huntingdon Valley, PA 19006

##### 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 Skin Sens. 1 - H317

##### Label elements

##### Hazard symbols



Signal word Warning

Hazard statements  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.

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<b>Precautionary statements</b>	<p>P261 Avoid breathing vapor/ spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</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>P302+P352 If on skin: Wash with plenty of water.</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>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P337+P313 If eye irritation persists: Get medical advice/ attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.</p>
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<b>Contains</b>	2-HYDROXYETHYL METHACRYLATE
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### 3. Composition/information on ingredients

#### Mixtures

<b>2-HYDROXYETHYL METHACRYLATE</b> CAS number: 868-77-9	<b>10-30%</b>
<b>Classification</b> Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Skin Sens. 1 - H317	
<b>CUMENE HYDROPEROXIDE</b> CAS number: 80-15-9	<b>&lt;1%</b>
<b>Classification</b> Org. Perox. E - H242 Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 3 - H331 Skin Corr. 1B - H314 Eye Dam. 1 - H318 STOT SE 3 - H335 STOT RE 2 - H373 Not relevant.	

The full text for all hazard statements is displayed in Section 16.

<b>Composition comments</b>	Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.
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### 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>	Rinse mouth thoroughly with water. Give plenty of water to drink. Do not induce vomiting. Get medical attention.
<b>Skin Contact</b>	Wash skin thoroughly with soap and water. If symptoms develop, obtain medical attention

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**Eye contact** Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

**Skin contact** Skin irritation. May cause an allergic skin reaction.

**Eye contact** Causes serious eye irritation.

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

**Notes for the doctor** No specific recommendations. Treat symptomatically.

## 5. Fire-fighting measures

### Extinguishing media

**Suitable extinguishing media** Foam, carbon dioxide or dry powder.

**Unsuitable extinguishing media** Water.

### Special hazards arising from the substance or mixture

**Hazardous combustion products** Burning produces irritating, toxic and obnoxious fumes. Carbon monoxide, carbon dioxide, and unknown hydrocarbons.

### Advice for firefighters

**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** Wear protective clothing as described in Section 8 of this safety data sheet.

### Environmental precautions

**Environmental precautions** Avoid discharge into drains.

### Methods and material for containment and cleaning up

**Methods for cleaning up** Absorb spillage with sand or other inert absorbent. Collect and place in suitable waste disposal containers and seal securely.

**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** Avoid contact with skin and eyes. Avoid inhalation of vapors and spray/mists. Wash hands thoroughly after handling. Keep container tightly sealed when not in use.

### Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in closed original container at temperatures between 44°F and 77°F. Never return unused material to storage receptacle.

### Specific end uses(s)

**Usage description** Adhesive. Sealant.

## 8. Exposure controls/Personal protection

**Ingredient comments** WEL = Workplace Exposure Limits

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### Exposure controls

<b>Appropriate engineering controls</b>	No specific ventilation requirements. Use positive down draft exhaust ventilation if general ventilation is insufficient to maintain vapor concentrations below established exposure limits.
<b>Eye/face protection</b>	Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for slashing or spraying exists.
<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>Respiratory protection</b>	Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

### 9. Physical and chemical properties

#### Information on basic physical and chemical properties

<b>Appearance</b>	Liquid.
<b>Color</b>	Red.
<b>Odor</b>	Acrylic
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not relevant.
<b>Melting point</b>	Not available.
<b>Initial boiling point and range</b>	Not applicable.
<b>Flash point</b>	>100°C
<b>Evaporation rate</b>	Not available.
<b>Evaporation factor</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 available.
<b>Vapor density</b>	Not available.
<b>Relative density</b>	1.1
<b>Bulk density</b>	Not available.
<b>Solubility(ies)</b>	Slightly soluble in water. Miscible with the following materials: acetone
<b>Partition coefficient</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition Temperature</b>	Not available.
<b>Viscosity</b>	≈7000 mPa s @ 23°C
<b>Oxidizing properties</b>	Not available.
<b>Other information</b>	Not relevant.
<b>Volatile organic compound</b>	<2 %, 20 grams/liter (Estimated)

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### 10. Stability and reactivity

<b>Reactivity</b>	Not available
<b>Stability</b>	Stable at normal ambient temperatures.
<b>Possibility of hazardous reactions</b>	There are no known reactivity hazards associated with this product. Polymerization may occur at elevated temperature or in the presence of incompatible materials
<b>Conditions to avoid</b>	Avoid the absence of air, and metal contamination.
<b>Materials to avoid</b>	Metals and their salts. Free radical initiators. Strong oxidizing agents. Strong reducing agents. Alkalis.
<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 skin irritation.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Causes eye irritation.
<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>	
<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>	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>	Based on available data the classification criteria are not met.
<b>Inhalation</b>	May cause respiratory system irritation.
<b>Ingestion</b>	No harmful effects expected from quantities likely to be ingested by accident.
<b>Skin Contact</b>	Prolonged and frequent contact may cause redness and irritation.
<b>Eye contact</b>	Causes serious eye irritation.

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Route of exposure Skin and/or eye contact

### Toxicological information on ingredients.

#### 2-HYDROXYETHYL METHACRYLATE

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 5,000.0

Species Rat

##### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> mg/kg) 5,000.0

Species Rabbit

##### Acute toxicity - inhalation

Notes (inhalation LC<sub>50</sub>) No information available.

##### Skin corrosion/irritation

Animal data Erythema/eschar score: Very slight erythema - barely perceptible (1). Not irritating.

##### Serious eye damage/irritation

Serious eye damage/irritation Moderately irritating.

##### Respiratory sensitization

Respiratory sensitization No information available.

##### Skin sensitization

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

##### Germ cell mutagenicity

Genotoxicity - in vitro Conclusive data but not sufficient for classification.

Genotoxicity - in vivo Chromosome aberration: Negative.

##### Carcinogenicity

Carcinogenicity No specific test data are available.

##### Reproductive toxicity

Reproductive toxicity - fertility Screening - NOAEL  $\geq$ 1000 mg/kg/day, Oral, Rat F1

Reproductive toxicity - development Developmental toxicity: - NOAEL:  $\geq$ 1000 mg/kg/day, Oral, Rat

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

STOT - single exposure No specific test data are available.

##### Specific target organ toxicity - repeated exposure

STOT - repeated exposure No specific test data are available.

##### Aspiration hazard

Aspiration hazard Not applicable.

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### CUMENE HYDROPEROXIDE

#### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub>) 328.0  
mg/kg)

Species Rat

#### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub>) 1,200.0  
mg/kg)

Species Rat

#### Acute toxicity - inhalation

Acute toxicity inhalation 1.37  
(LC<sub>50</sub> dust/mist mg/l)

Species Rat

#### Skin corrosion/irritation

Animal data Highly irritating.

#### Serious eye damage/irritation

Serious eye damage/irritation Irritating to eyes.

#### Skin sensitization

Skin sensitization Not sensitizing.

#### Germ cell mutagenicity

Genotoxicity - in vitro Positive.

Genotoxicity - in vivo This substance has no evidence of mutagenic properties.

#### Carcinogenicity

Carcinogenicity CMR: No

#### Reproductive toxicity

Reproductive toxicity - fertility No specific test data are available.

Reproductive toxicity - development Developmental toxicity: - NOAEL: ≥100 mg/kg/day, Oral, Rat

#### Specific target organ toxicity - single exposure

STOT - single exposure No specific test data are available.

#### Specific target organ toxicity - repeated exposure

STOT - repeated exposure Toxic: danger of serious damage to health by prolonged exposure through inhalation.

#### Aspiration hazard

Aspiration hazard No specific test data are available.

### 12. Ecological information

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

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### 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

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).

#### UN Number

**UN No. (International)** Not applicable.

**UN No. (DOT)** Not applicable.

#### UN proper shipping name

**Proper shipping name (International)** Not applicable.

**Proper shipping name (DOT)** Not applicable.

#### Transport hazard class(es)

**Transport Labels (International)** No transport warning sign required.

#### DOT transport labels

No transport warning sign required.

#### Packing group

**Packing group (International)** Not applicable.

**DOT packing group** Not applicable.

#### Environmental hazards

##### **Environmentally Hazardous Substance**

No.

#### Special precautions for user

Not applicable.

**DOT reportable quantity** Not applicable.

**DOT TIH Zone** Not applicable.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

### 15. Regulatory information

#### US Federal Regulations



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

None above reporting levels

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

None above reporting limits

#### *CUMENE HYDROPEROXIDE*

Final CERCLA RQ: 10(4.54) pounds (Kilograms)

#### *1,2-BENZISOTHIAZOL-3(2H)-ONE 1,1-DIOXIDE*

Final CERCLA RQ: 100(45.4) pounds (Kilograms)

### 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

#### California Proposition 65 Carcinogens and Reproductive Toxins

This product contains a chemical known to the state of California to cause cancer.

*CUMENE*

### 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
	Skin Irrit. = Skin irritation
	Skin Sens. = Skin sensitisation
<b>Revision date</b>	3/29/2021
<b>Revision</b>	4
<b>Supersedes date</b>	1/29/2018

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### Hazard statements in full

H242 Heating may cause a fire.  
H302 Harmful if swallowed.  
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.  
H319 Causes serious eye irritation.  
H331 Toxic if inhaled.  
H335 May cause respiratory irritation.  
H373 May cause damage to organs through prolonged or repeated exposure.



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