

# Permabond®

## Engineering Adhesives

### SAFETY DATA SHEET Permabond Initiator 41

#### 1. Identification

##### Product identifier

**Product name** Permabond Initiator 41

##### 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

##### 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** Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Irrit. 2A - H319

##### Label elements

##### Pictogram



**Signal word** Warning

**Hazard statements** H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.

## Permabond Initiator 41

<b>Precautionary statements</b>	<p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P270 Do not eat, drink or smoke when using this product.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P301+P312 If swallowed: Call a poison center/ doctor if you feel unwell.</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>P330 Rinse mouth.</p> <p>P332+P313 If skin irritation 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>
---------------------------------	---

**Contains** 3,5-DIETHYL-1,2-DIHYDRO-1-PHENYL-2-PROPYLPYRIDINE

### 3. Composition/information on ingredients

#### Mixtures

<b>3,5-DIETHYL-1,2-DIHYDRO-1-PHENYL-2-PROPYLPYRIDINE</b> CAS number: 34562-31-7	<b>10-30%</b>
<b>Classification</b> Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Irrit. 2 - H315 Eye Irrit. 2A - H319	
<b>COPPER NAPHTHENATE</b> CAS number: 1338-02-9	<b>&lt;1%</b>
<b>Classification</b> Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Not relevant.	
<b>2-ETHYLHEXANOIC ACID, COPPER SALT</b> CAS number: 22221-10-9	<b>&lt;1%</b>
<b>Classification</b> Acute Tox. 4 - H302 Not relevant.	

## Permagard Initiator 41

<b>COPPER DI(ACETATE)</b>	<b>&lt;1%</b>
CAS number: 142-71-2	
<b>Classification</b> Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 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>	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 immediately.
<b>Skin Contact</b>	Wash skin thoroughly with soap and water. If symptoms develop, obtain medical attention
<b>Eye contact</b>	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

<b>Ingestion</b>	Harmful if swallowed.
<b>Skin contact</b>	Skin irritation.
<b>Eye contact</b>	Irritating to eyes.

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

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

### 5. Fire-fighting measures

#### Extinguishing media

<b>Suitable extinguishing media</b>	Foam, carbon dioxide or dry powder.
<b>Unsuitable extinguishing media</b>	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

## Permabond Initiator 41

**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

### Exposure controls

**Appropriate engineering controls** No specific ventilation requirements. Use positive down draft exhaust ventilation if general ventilation is insufficient to maintain vapor concentrations below established exposure limits.

**Eye/face protection** Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for slashing or spraying exists.

**Hand protection** Nitrile rubber or Viton™ gloves are recommended. Cotton or other absorbent gloves should not be worn.

**Other skin and body protection** Employee must wear appropriate protective clothing and equipment to prevent any possibility of skin contact with this substance.

**Respiratory protection** 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>	Brown.
<b>Odor</b>	Aromatic.
<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>	90°C
<b>Evaporation rate</b>	Not available.
<b>Evaporation factor</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.

## Permabond Initiator 41

<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>	1.0
<b>Bulk density</b>	Not available.
<b>Solubility(ies)</b>	Insoluble in water. Soluble in the following materials: Organic solvents.
<b>Partition coefficient</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition Temperature</b>	Not available.
<b>Viscosity</b>	≈10 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)

### 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>	Irritating to skin.
<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>	

## Permabond Initiator 41

<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>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>	Based on available data the classification criteria are not met.
<b><u>Aspiration hazard</u></b>	
<b>Aspiration hazard</b>	Based on available data the classification criteria are not met.
<b>Inhalation</b>	Vapors may irritate throat/respiratory system.
<b>Ingestion</b>	Harmful if swallowed.
<b>Skin Contact</b>	Irritating.
<b>Eye contact</b>	Irritating.
<b>Acute and chronic health hazards</b>	Harmful if swallowed.
<b>Route of exposure</b>	Skin and/or eye contact Ingestion

### Toxicological information on ingredients.

#### 3,5-DIETHYL-1,2-DIHYDRO-1-PHENYL-2-PROPYLPYRIDINE

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 500.1

Species Rat

ATE oral (mg/kg) 500.1

##### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> mg/kg) 1,000.1

Species Rabbit

ATE dermal (mg/kg) 1,000.1

##### Acute toxicity - inhalation

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

## Permabond Initiator 41

### Skin corrosion/irritation

**Skin corrosion/irritation** Moderately irritating.

### Serious eye damage/irritation

**Serious eye damage/irritation** Moderately irritating.

### Respiratory sensitization

**Respiratory sensitization** May cause respiratory system irritation.

### Skin sensitization

**Skin sensitization** No specific test data are available.

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

## 12. Ecological Information

**Toxicity** No data available.

### 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 and local governmental regulations.

## 14. Transport information

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

### UN Number

Not applicable.

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

## Permabond Initiator 41

### UN proper shipping name

Not applicable.

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

### Transport hazard class(es)

No transport warning sign required.

### **DOT transport labels**

No transport warning sign required.

### Packing group

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

#### **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

#### **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

### US State Regulations

#### **California Proposition 65 Carcinogens and Reproductive Toxins**

This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

### Inventories

#### **Canada - DSL/NDSL**

All the ingredients are listed or exempt.



## Permabond Initiator 41

### 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>	Acute Tox. = Acute toxicity Eye Irrit. = Eye irritation Skin Irrit. = Skin irritation
<b>Revision date</b>	1/29/2016
<b>Revision</b>	2
<b>Supersedes date</b>	5/5/2015
<b>Hazard statements in full</b>	H226 Flammable liquid and vapor. H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye 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.