

# Permabond®

## Engineering Adhesives

### SAFETY DATA SHEET

#### Permabond UV6302

#### 1. Identification

##### Product identifier

**Product name** Permabond UV6302

##### 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 Acute Tox. 4 - H312 Skin Corr. 1C - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Repr. 1B - H360Df

##### Label elements

##### Hazard symbols



**Signal word**

Danger

##### Hazard statements

H302+H312 Harmful if swallowed or in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H360Df May damage the unborn child. Suspected of damaging fertility.

## Permabond UV6302

### Precautionary statements

P201 Obtain special instructions before use.  
 P202 Do not handle until all safety precautions have been read and understood.  
 P260 Do not breathe vapor/ spray.  
 P261 Avoid breathing vapor/ spray.  
 P264 Wash contaminated skin thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P272 Contaminated work clothing must not be allowed out of the workplace.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
 P301+P312 If swallowed: Call a poison center/ doctor if you feel unwell.  
 P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.  
 P302+P352 If on skin: Wash with plenty of water.  
 P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
 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.  
 P308+P313 If exposed or concerned: Get medical advice/ attention.  
 P310 Immediately call a poison center/ doctor.  
 P321 Specific treatment (see medical advice on this label).  
 P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P363 Wash contaminated clothing before reuse.  
 P405 Store locked up.  
 P501 Dispose of contents/ container in accordance with national regulations.

### Contains

N,N-DIMETHYLACRYLAMIDE, TETRAHYDROFURFURYL ACRYLATE, ISOBORNYL ACRYLATE, DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE

### Other hazards

None under normal conditions.

### 3. Composition/information on ingredients

#### Mixtures

<b>N,N-DIMETHYLACRYLAMIDE</b> CAS number: 2680-03-7 REACH registration exemption – < 1 tonne	<b>10-30%</b>
<b>Classification</b> Acute Tox. 3 - H301 Acute Tox. 3 - H311 Eye Dam. 1 - H318	
<b>TETRAHYDROFURFURYL ACRYLATE</b> CAS number: 2399-48-6	<b>10-30%</b>
<b>Classification</b> Acute Tox. 4 - H302 Skin Corr. 1C - H314 Eye Dam. 1 - H318 Skin Sens. 1B - H317 Repr. 1B - H360Df Not relevant.	

## Permabond UV6302

<b>ISOBORNYL ACRYLATE</b>	<b>10-30%</b>
CAS number: 5888-33-5	
<b>Classification</b>	
Skin Irrit. 2 - H315	
Eye Irrit. 2A - H319	
Skin Sens. 1 - H317	
STOT SE 3 - H335	
Not relevant.	
<b>DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE</b>	<b>1-5%</b>
CAS number: 75980-60-8	
<b>Classification</b>	
Skin Sens. 1B - H317	
Repr. 2 - H361f	
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 symptoms are severe or persist.
<b>Ingestion</b>	Do not induce vomiting unless under the direction of medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
<b>Skin Contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention promptly if symptoms occur after washing. Wash contaminated clothing before reuse.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

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

<b>Inhalation</b>	May cause respiratory irritation.
<b>Ingestion</b>	Harmful if swallowed.
<b>Skin contact</b>	Causes skin irritation. May cause an allergic skin reaction. Harmful in contact with skin.
<b>Eye contact</b>	Causes serious eye damage.

##### 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**    Water spray, foam, dry powder or carbon dioxide.

## Permabond UV6302

### 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, eyes and clothing. Use only in well-ventilated areas. Keep container tightly sealed when not in use. Wash hands thoroughly after handling.

### 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** No exposure limits known for ingredient(s).

### Exposure controls

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

**Eye/face protection** Use safety goggles and face shield in case of splash risk.

**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.

**Hygiene measures** Wash at the end of each work shift and before eating, smoking and using the toilet.

**Respiratory protection** No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs. Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

## 9. Physical and chemical properties

## PermaBond UV6302

### Information on basic physical and chemical properties

<b>Color</b>	Colorless.
<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>	>93°C (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.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Relative density</b>	1.1
<b>Solubility(ies)</b>	Slightly soluble in water. Miscible with the following materials: acetone
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition Temperature</b>	Not available.
<b>Viscosity</b>	≈75 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>	The following materials may react with the product: Strong oxidizing agents.
<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended. Polymerizes when heated.
<b>Possibility of hazardous reactions</b>	Polymerization may occur at elevated temperature or in the presence of incompatible materials
<b>Conditions to avoid</b>	Do not store near heat sources or expose to high temperatures. Protect against direct sunlight.
<b>Materials to avoid</b>	Strong oxidizing agents. Strong reducing 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

## PermaBond UV6302

<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>	May cause serious chemical burns to the skin.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Risk of serious damage to eyes.
<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>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>	Suspected of damaging fertility.
<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><u>Inhalation</u></b>	
<b>Inhalation</b>	In high concentrations, vapors may irritate throat and respiratory system and cause coughing.
<b><u>Ingestion</u></b>	
<b>Ingestion</b>	Harmful if swallowed.
<b><u>Skin Contact</u></b>	
<b>Skin Contact</b>	This product is strongly irritating. Prolonged contact may cause burns. Harmful in contact with skin.
<b><u>Eye contact</u></b>	
<b>Eye contact</b>	Causes serious eye damage.

### Toxicological information on ingredients.

#### N,N-DIMETHYLACRYLAMIDE

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub>) 216.0  
mg/kg)

Species Rat

##### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub>) 519.0  
mg/kg)

Species Rabbit

## Permabond UV6302

### Acute toxicity - inhalation

Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l) 3.16

Species Rat

### Skin corrosion/irritation

Animal data Method: OECD 404, Rabbit Not irritating.

### Serious eye damage/irritation

Serious eye damage/irritation Method: OECD 405, Rabbit Causes serious eye damage.

### Respiratory sensitization

Respiratory sensitization No data available.

### Skin sensitization

Skin sensitization Guinea pig maximization test (GPMT) - Guinea pig: Not sensitizing.

### Germ cell mutagenicity

Genotoxicity - in vitro Gene mutation: Negative.

Genotoxicity - in vivo Chromosome aberration: Negative.

### Carcinogenicity

Carcinogenicity No data available.

### Reproductive toxicity

Reproductive toxicity - fertility Screening - NOAEL 30 mg/kg/day, Oral, Rat F1

### Specific target organ toxicity - single exposure

STOT - single exposure No information available.

### Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

### Aspiration hazard

Aspiration hazard No information available.

## TETRAHYDROFURFURYL ACRYLATE

### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 928.0

Species Rat

### Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) No information available.

### Skin corrosion/irritation

Animal data Method: OECD 404, Rabbit Corrosive.

### Serious eye damage/irritation

## Permabond UV6302

<b>Serious eye damage/irritation</b>	Method: OECD 405, Rabbit Causes serious eye damage.
<b><u>Skin sensitization</u></b>	
<b>Skin sensitization</b>	No information available.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</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 - NOAEL >300 mg/kg/day, Oral, Rat P May damage fertility.
<b>Reproductive toxicity - development</b>	May damage the unborn child.
<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.

### ISOBORNYL ACRYLATE

<b><u>Acute toxicity - oral</u></b>	
<b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b>	5,000.0
<b>Species</b>	Rat
<b><u>Acute toxicity - dermal</u></b>	
<b>Acute toxicity dermal (LD<sub>50</sub> mg/kg)</b>	3,000.0
<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>Skin corrosion/irritation</b>	Not irritating.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Not irritating.
<b><u>Skin sensitization</u></b>	
<b>Skin sensitization</b>	Local Lymph Node Assay (LLNA) - : Sensitizing.
<b><u>Germ cell mutagenicity</u></b>	

## Permabond UV6302

<b>Genotoxicity - in vitro</b>	Genome mutation: Negative.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	No information available.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	Two-generation study - NOEC 0.092 mg/l, Inhalation, Rat P
<b>Reproductive toxicity - development</b>	Developmental toxicity: - NOAEL: 500 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>	No information available.

### DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE

<b><u>Acute toxicity - oral</u></b>	
<b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b>	5,000.0
<b>Species</b>	Rat
<b><u>Acute toxicity - dermal</u></b>	
<b>Acute toxicity dermal (LD<sub>50</sub> mg/kg)</b>	2,000.1
<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>	Not irritating.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Not irritating.
<b><u>Skin sensitization</u></b>	
<b>Skin sensitization</b>	Local Lymph Node Assay (LLNA) - Mouse: Sensitizing.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Gene mutation: Negative.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	No data available.
<b><u>Reproductive toxicity</u></b>	

## PermaBond UV6302

**Reproductive toxicity - fertility** Possible risk of adverse reproductive effects.

**Reproductive toxicity - development** Developmental toxicity: - NOAEL: 150 mg/kg, Oral, Rat

**Specific target organ toxicity - single exposure**

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

**Specific target organ toxicity - repeated exposure**

**STOT - repeated exposure** NOAEL 50 mg/kg/day, Oral, Rat

**Aspiration hazard**

**Aspiration hazard** No data available.

### 12. Ecological information

**Toxicity** No data 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

**UN Number**

**UN No. (IMDG)** 1760

**UN No. (ICAO)** 1760

**UN No. (DOT)** UN1760

**UN proper shipping name**

**Proper shipping name (IMDG)** CORROSIVE LIQUID, N.O.S. (contains Tetrahydrofurfuryl acrylate)

**Proper shipping name (ICAO)** CORROSIVE LIQUID, N.O.S. (contains Tetrahydrofurfuryl acrylate)

**Proper shipping name (DOT)** CORROSIVE LIQUID, N.O.S. (contains Tetrahydrofurfuryl acrylate)

**Transport hazard class(es)**

**DOT hazard class** 8

**IMDG Class** 8

**ICAO class/division** 8

**Transport labels**



**Packing group**

**IMDG packing group** III

**ICAO packing group** III

## Permabond UV6302

DOT packing group III

### Environmental hazards

Environmentally Hazardous Substance



### 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 (311/312) Hazard Categories

Acute  
Chronic

#### US State Regulations

##### 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

**Classification abbreviations and acronyms**

Acute Tox. = Acute toxicity
Eye Dam. = Serious eye damage
Skin Corr. = Skin corrosion
Repr. = Reproductive toxicity

Revision date	5/7/2021
Revision	5
Supersedes date	12/14/2018

## Permabond UV6302

### Hazard statements in full

H301 Toxic if swallowed.  
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.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H360Df May damage the unborn child. Suspected of damaging fertility.  
H361f Suspected of damaging fertility.

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.