

**Creation Date** 12-Jul-2001

**Revision Date** 22-Oct-2018

**Version** 2

## 1. IDENTIFICATION

**Product Name** PC 88 Adhesive Component 2

**Synonyms** Solvent based adhesive/sealant

**Product Code** OCPC00013

**Description** PC 88 Adhesive Component 2 is part 2 of a two part adhesive used to bond FOAMGLAS insulation to itself or to other porous or nonporous substrates

**Recommended Use** Adhesives

**Manufacturer Address** Pittsburgh Corning, LLC, a subsidiary of Owens Corning  
One Owens Corning Parkway  
Toledo, Ohio 43659

**Company Phone Number** 1-800-327-6126 or 1-724-327-6100

**24 Hour Emergency Phone Number** Chemtrec 1-800-424-9300 or 1-703-741-5970 CCN17393

**Emergency Telephone** 1-419-248-5330 (after 5 pm ET and weekends)

**E-mail address** [productcompliance@owenscorning.com](mailto:productcompliance@owenscorning.com)

**Company Website** <http://Foamglas.com/>

## 2. HAZARDS IDENTIFICATION

**OSHA Regulatory Status** This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Inhalation (Dusts/Mists)	Category 3
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2

### Label elements

#### Danger

#### Hazard statements

Toxic if inhaled  
Causes skin irritation  
Causes serious eye irritation  
May cause allergy or asthma symptoms or breathing difficulties if inhaled  
May cause an allergic skin reaction  
May cause respiratory irritation  
May cause damage to organs through prolonged or repeated exposure



**ERG Code** Get medical advice/attention if you feel unwell

**Eyes** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

**Skin** If eye irritation persists: Get medical advice/attention  
 IF ON SKIN: Wash with plenty of soap and water  
 Take off contaminated clothing and wash before reuse

**Inhalation** If skin irritation or rash occurs: Get medical advice/attention  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 Call a POISON CENTER or doctor/physician

**Precautionary Statements - Prevention** Avoid breathing dust, vapor, mist, gas  
 Use only outdoors or in a well-ventilated area  
 In case of inadequate ventilation wear respiratory protection  
 Wear eye/face protection  
 Wear protective gloves and protective clothing  
 Wash face, hands and any exposed skin thoroughly after handling  
 Contaminated work clothing must not be allowed out of the workplace

**Precautionary Statements - Storage** Store in a well-ventilated place. Keep container tightly closed  
 Store locked up

**Precautionary Statements - Disposal** Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)** Not applicable

**Unknown acute toxicity** 0% of the mixture consists of ingredient(s) of unknown toxicity

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Product Components**

Chemical name	CAS No	Weight-%	Trade Secret
Methylenediphenyl diisocyanate	26447-40-5	30-40	*

• \*The exact percentage (concentration) of composition has been withheld as a trade secret

**Comments** The remaining components of this product are non-hazardous or are in a small enough quantity as to not meet regulatory thresholds for disclosure. These components contain no substances or impurities which would influence the classification of this product

**4. FIRST AID MEASURES**

**Description of First Aid Measures**

**General advice** If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.

**Eye contact** • Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

	<ul style="list-style-type: none"> <li>continue flushing for at least 15 minutes</li> <li>• Keep eye wide open while rinsing</li> <li>• If symptoms persist, call a physician</li> </ul>
<b>Skin contact</b>	<ul style="list-style-type: none"> <li>• Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes</li> <li>• Wash contaminated clothing before reuse</li> <li>• If skin irritation or rash occurs: Get medical advice/attention</li> </ul>
<b>Inhalation</b>	<ul style="list-style-type: none"> <li>• Remove to fresh air</li> <li>• If breathing is irregular or stopped, administer artificial respiration</li> <li>• Call a physician</li> </ul>
<b>Ingestion</b>	<ul style="list-style-type: none"> <li>• <b>DO NOT</b> induce vomiting</li> <li>• Clean mouth with water and drink afterwards plenty of water</li> <li>• If symptoms persist, call a physician</li> </ul>
<b>Note to physicians</b>	<ul style="list-style-type: none"> <li>• Treat symptomatically</li> </ul>

## 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media</b>	<ul style="list-style-type: none"> <li>• Use extinguishing measures that are appropriate to local circumstances and the surrounding environment</li> </ul>
<b>Unsuitable extinguishing media</b>	<ul style="list-style-type: none"> <li>• Caution: Use of water spray when fighting fire may be inefficient</li> </ul>
<b>Specific hazards arising from the chemical</b>	<ul style="list-style-type: none"> <li>• In the event of fire and/or explosion do not breathe fumes</li> <li>• May cause sensitization by inhalation and skin contact</li> <li>• Thermal decomposition can lead to release of irritating and toxic gases and vapors</li> </ul>
<b>Explosion data</b>	
<b>Sensitivity to Mechanical Impact</b>	• No
<b>Sensitivity to Static Discharge</b>	• No
<b>Protective equipment and precautions for firefighters</b>	<ul style="list-style-type: none"> <li>• As in any fire, wear self-contained breathing apparatus (positive-pressure), MSHA/NIOSH (approved or equivalent) and full protective gear</li> </ul>

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	<ul style="list-style-type: none"> <li>• Ensure adequate ventilation, especially in confined areas</li> <li>• Avoid contact with skin, eyes or clothing</li> <li>• Use personal protective equipment as required</li> <li>• Evacuate personnel to safe areas</li> <li>• Keep people away from and upwind of spill/leak</li> </ul>
<b>Environmental precautions</b>	<ul style="list-style-type: none"> <li>• Prevent entry into waterways, sewers, basements or confined areas</li> <li>• Do not flush into surface water or sanitary sewer system</li> <li>• Prevent further leakage or spillage if safe to do so</li> <li>• Prevent product from entering drains</li> <li>• See Section 12 for ecotoxicology additional information</li> </ul>

### Methods and material for containment and cleaning up

<b>Methods for containment</b>	<ul style="list-style-type: none"> <li>• Prevent further leakage or spillage if safe to do so</li> </ul>
<b>Methods for cleaning up</b>	<ul style="list-style-type: none"> <li>• Cover liquid spill with sand, earth or other non-combustible absorbent material</li> <li>• Use personal protective equipment as required</li> </ul>

- Dam up
- Take up mechanically, placing in appropriate containers for disposal
- Clean contaminated surface thoroughly
- Soak up with inert absorbent material
- Pick up and transfer to properly labeled containers

## 7. HANDLING AND STORAGE

**Technical measures** • Use with local exhaust ventilation

**Advice on safe handling**

- Avoid contact with skin, eyes or clothing
- Wash contaminated clothing before reuse
- Do not eat, drink or smoke when using this product
- Use personal protective equipment as required
- Do not breathe dust/fume/gas/mist/vapors/spray
- Use with local exhaust ventilation

### Conditions for safe storage, including any incompatibilities

**Storage Conditions**

- Keep container tightly closed in a dry and well-ventilated place
- Keep out of the reach of children
- Keep containers tightly closed in a cool, well-ventilated place
- Keep in properly labeled containers

**Incompatible materials** • None known based on information supplied

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH REL
Methylenediphenyl diisocyanate 26447-40-5	-	Ceiling: 0.02 ppm Ceiling: 0.2 mg/m <sup>3</sup>	-

**Other Information** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

**Engineering Controls** Minimize exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings

### Individual protection measures, such as personal protective equipment

**Eye/face protection**

- Tight sealing safety goggles
- Face protection shield

**Skin and body protection** • Wear impervious protective gloves

**Respiratory protection** • If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations

**General Hygiene Considerations**

- When using do not eat, drink or smoke
- Regular cleaning of equipment, work area and clothing is recommended

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state** Liquid  
**Appearance** Liquid  
**Odor** Slightly musty

<b>Color</b>	Brown
<b>Melting point / freezing point</b>	< 0 °C / 32 °F
<b>Boiling point / boiling range</b>	208 °C / 406 °F
<b>Flash point</b>	177 °C / 351 °F
<b>Vapor pressure @20 °C (kPa)</b>	0.0004 mm Hg @ 20°C
<b>Density VALUE</b>	8.5 (air=1)
<b>Water solubility</b>	Insoluble in water
<b>Autoignition temperature</b>	
<b>Specific Gravity</b>	1.23 (H2)=1)
<b>VOC:</b>	64 g/L
<b>Liquid Density</b>	10.3 lbs/gal

**10. STABILITY AND REACTIVITY**

- Reactivity** • No data available
- Chemical stability** • Stable under recommended storage conditions
- Possibility of Hazardous Reactions** • None under normal processing
- Conditions to avoid** • Extremes of temperature and direct sunlight
- Incompatible materials** • None known based on information supplied
- Hazardous Decomposition Products** • None known based on information supplied

**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

**Product Information** Toxic by inhalation

Chemical name	Oral LD50	LD50/dermal/rat - NO UNITS (Wizards mg/kg)	Inhalation LC50
Methylenediphenyl diisocyanate 26447-40-5	> 10000 mg/kg ( Rat )	> 10000 mg/kg ( Rabbit )	= 490 mg/m <sup>3</sup> ( Rat ) 4 h
Diphenylmethane diisocyanate (isomers and homologues) 9016-87-9	= 49 g/kg ( Rat )	> 9.4 g/kg ( Rabbit )	= 490 mg/m <sup>3</sup> ( Rat ) 4 h

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

- Skin corrosion/irritation** Irritating to skin.
- Serious eye damage/eye irritation** H319 - Causes serious eye irritation.
- Sensitization** May cause sensitization by inhalation and skin contact.
- Germ cell mutagenicity** No information available.
- Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Methylenediphenyl diisocyanate 26447-40-5	-	Group 3	-	-
Diphenylmethane	-	Group 3	-	-

diisocyanate (isomers and homologues) 9016-87-9				
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IARC (International Agency for Research on Cancer)  
Group 3 - Not classifiable as a human carcinogen

<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	May cause respiratory irritation.
<b>STOT - repeated exposure</b>	May cause damage to organs through prolonged or repeated exposure.
<b>Chronic toxicity</b>	Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure.
<b>Aspiration hazard</b>	No information available.

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	• The environmental impact of this product has not been fully investigated
<b>Persistence and degradability</b>	• No information available
<b>Bioaccumulation</b>	• No information available

Chemical name	Partition coefficient
Methylenediphenyl diisocyanate 26447-40-5	4.5

<b>Other adverse effects</b>	• No information available
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## 13. DISPOSAL CONSIDERATIONS

<b>Disposal of wastes</b>	• Disposal should be in accordance with applicable regional, national and local laws and regulations
<b>Contaminated packaging</b>	• Do not reuse container

## 14. TRANSPORT INFORMATION

<b>DOT</b>	Not regulated
<b>TDG</b>	Not regulated
<b>MEX</b>	Not regulated
<b>ICAO (air)</b>	Not regulated
<b>IATA</b>	Not regulated
<b>IMDG</b>	Not regulated
<b>RID</b>	Not regulated
<b>ADR</b>	Not regulated
<b>ADN</b>	Not regulated

## 15. REGULATORY INFORMATION

International Inventories

Chemical name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Methylenediphenyl diisocyanate 26447-40-5	X	X		X		X	X	X	X	X

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
Methylenediphenyl diisocyanate - 26447-40-5	1.0
Diphenylmethane diisocyanate (isomers and homologues) - 9016-87-9	1.0

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
Methylenediphenyl diisocyanate 26447-40-5	X	X	-
Diphenylmethane diisocyanate (isomers and homologues) 9016-87-9	X	-	-

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

**Creation Date** 12-Jul-2001  
**Revision Date** 22-Oct-2018  
**Revision Note** Update of document format

**Disclaimer**

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use

**End of Safety Data Sheet**