

* Section 1. Identification

Product identifier

- **Trade name:** RPI Royal Edge Pourable Sealer B
- **Product Code:** PSB
- **Relevant identified uses of the substance or mixture:** Construction

Details of the supplier of the safety data sheet

- **Manufacturer/Supplier:**
Roofing Products International, Inc.
57460 Dewitt St.
Elkhart, IN 46517-1078
- **Information department:** Technical Services Department

Emergency telephone number

ChemTrec: UNITED STATES 1(800)424-9300 INTERNATIONAL 703-527-3887

* Section 2. Hazard(s) identification

Classification of the substance or mixture



GHS08 Health hazard



GHS02 Flame

- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H361 Suspected of damaging the fertility or unborn child. ighly flammable liquid and vapor.



GHS07

H332 Harmful if inhaled. Suspected of damaging fertility or the unborn

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H355 May cause respiratory irritation..

Label elements

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS07



GHS08

Signal word: Danger

Hazard statements

Harmful if inhaled

Causes skin irritation

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Causes serious eye irritation.

Suspected of damaging fertility or the unborn child.

May cause drowsiness or dizziness.

May cause damage to organs through a single exposure. May be fatal if swallowed and enters airways.

Precautionary statements

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use. Wear protective gloves and eye safety glasses.

Keep away from heat/sparks/open flames. Do not smoke when handling or using material. Do not use in areas without proper ventilation. While using product, keep container tightly closed.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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

Store in secure area.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system

- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**



- **Other hazards**
- **Results of PBT and vPvB assessment:**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

*** Section 3 Composition/information on ingredients**

- **Chemical characterization:** Mixtures
- **Description:** Mixture
- Dangerous and Non-dangerous components*

Components	CAS Number	% by Weight
diphenylmethanediisocyanate, isomeres and hohlogues	9016-87-9	25 -50 %
4,4'-methylenediphenyl diisocyanate	101-68-8	25-50%
di-"isodecyl" phthalate	26761-40-0	5-20%
o-(p-isocyanatobenzyl)phenyl isocyanate	5873-54-1	2.5-10 %
carbon black	1333-86-4	≤2.5%

*** Section 4. First-aid measures**

Description of first aid measures

- **General information:**
- Symptoms of poisoning may occur after several hours; therefore medical observation for at least 48 hours after the accident is recommended.*

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- **After inhalation:**
Remove victim to area off fresh air and seek medical attention. Supply fresh air. If required, provide artificial respiration. If breathing is difficult, give oxygen. Call a doctor immediately.
- **After skin contact:**
Remove contaminated clothing and immediately wash affected area with soap and water. Rinse affected area with clean water for 15 minutes. Wash clothing before reuse.
- **After eye contact:**
Rinse opened eye for several minutes under clean running water. Contact a physician immediately.
- **After swallowing:**
Seek medical treatment immediately. Call a poison center or physician. Remove any dentures. Wash out mouth with clean water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Aspiration hazard if swallowed, product can enter lungs and cause damage. Do Not Induce Vomiting. If vomiting occurs the head should be kept low to prevent vomit from entering lungs. If unconscious, place in recovery position and get immediate medical attention. Do not give anything by mouth to an unconscious person. Maintain an open airway. Loosen tight clothing to provide unrestricted breathing.

Most important symptoms and effects, both acute and delayed

- **Eye Contact:**
Causes serious eye injury.
- **Inhalation:**
Harmful if inhaled. Can cause central nervous system depression. May cause drowsiness and dizziness.
- **Skin Contact:**
Causes skin irritation.
- **Ingestion:**
Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways. Irritating to mouth, throat, and stomach.

Over-exposure signs and symptoms

- **Eye Contact:**
- **Adverse symptoms may include the following:** Pain or irritation. Redness and watering of the eyes.
- **Inhalation:**
- **Adverse symptoms may include the following.** Nausea or vomiting, headache with drowsiness or fatigue. Dizziness with disorientation and vertigo. Unconsciousness.
- **Skin Contact:**
- **Adverse symptoms include the following.** Irritation and redness.
- **Ingestion:**
- **Adverse symptoms may include the following.** Nausea and/or vomiting.

Indication of any immediate medical attention and special treatment needed

- **Information for Physician:**
No further relevant information available.
- **Specific treatments:**
Treat symptomatically and supportively.
- **Protection of first aiders:**
No action shall be taken involving any personal risk or without suitable training. If it is suspected that gas or vapor is still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth to mouth resuscitation.

* **Section 5. Fire-fighting measures**

Extinguishing media

- **Suitable extinguishing agents:** CO₂, extinguishing powder or water spray. Use water spray to fight large fires.
- **Special hazards arising from the substance or mixture:** No further relevant information available.

Advice for firefighters

- Wear protective clothing and a respiratory device.

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*** Section 5. Fire-fighting measures**

Extinguishing media

- **Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water and water with full jet

Advice for firefighters

- **Protective equipment:**
Mouth respiratory protective device.
Protective clothing and respiratory protective device.

*** Section 6. Accidental release measures**

Personal precautions, equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.

- **Environmental precautions:**
*Inform respective authorities in case of seepage into water course or sewage system.
Prevent seepage into sewage system, workpits and cellars.
Do not allow to enter sewers/surface or ground water.*
- **Methods and material for containment and cleaning up:**
Cover spilled material with neutralization solution (see below) and mix. Wait 15 minutes. Collect material in openhead metal containers and repeat neutralization and cleaning process until surface is decontaminated. Apply drum lid but DO NOT secure. Allow container to vent for 72 hours to let carbon dioxide escape. Ensure adequate ventilation.

Reference to other sections

Neutralization solutions:

1. A mixture of 90% water, 3-8% ammonium hydroxide or concentrated ammonia, and 2% liquid detergent.
2. A mixture of 80% water, 20% non-ionic surfactant.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

*** Section 7. Handling and storage**

Handling

- **Precautions for safe handling:**
*Ensure good ventilation/exhaustion at the workplace.
Wear personal protective equipment.
Open and handle receptacle with care.
Avoid contact with eyes.
Avoid repeated or prolonged contact with skin.
Do not breath vapors or spray mist.*
- **Information about protection against explosions and fires:**
*Product reacts with water. Reaction may produce heat and/or gases. Container may rupture from gas generation of a fire situation. The reaction may be violent.
Protect against electrostatic charges.
Keep respiratory protective device available*

Advice on general occupational hygiene

*Do not eat, drink, or smoke in areas where this product is being handled, stored, or processed.
Workers should wash face and hands before eating, drinking or smoking.
Remove protective clothing and equipment before entering eating areas.*

Conditions for safe storage, including any incompatibilities

Storage

Requirments to be met by storerooms and receptacles.

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Store in a cool location away from direct heat.

Keep containers tightly closed when not in use. Protect from atmospheric

• **Information about storage in one common storage facility:**

Store away from oxidizing agents.

• **Further information about storage conditions:**

Uncontaminated containers, free of moisture, may be resealed only after placing under a nitrogen blanket.

DO NOT store in containers made of copper, copper alloys or galvanized surfaces.

Store between 10°C (50°F) and 32°C (90°F).

• **Specific end use(s):**

As a filler for pitch-pan(pockets) on single-ply membrane roof systems.

* **Section 8. Exposure controls/personal protection**

Control parameters

Components with limit values that require monitoring at the workplace:

Name of Ingredients	CAS Number		Exposure Limits
4,4'-methylenediphenyl diisocyanate (25-50%)	101-68-8	PEL	Short-term value: C 0.2 mg/m ³ , C 0.02 ppm
		REL	Short-term value: C 0.2* mg/m ³ , C 0.02* ppm
		TLV	Long-term value: 0.05 mg/m ³ , 0.005 ppm *10-min
			0.051 mg/m ³ , 0.005 ppm

Additional information: The lists that were valid during the creation of product were used as basis.

Exposure controls

Personal protective equipment (see listings below)

• **General protection and hygiene**

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Store protective clothing separately.

• **Breathing equipment:**

Use approved NIOSH-certified respiratory protection equipment when airborne exposure is excessive and above the established exposure limit. Comply with OSHA 29 CFR 1910.134.

• **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance and the preparation. Check with glove manufacturer for data regarding chemical resistance.

Material of gloves:

Nitrile rubber, NBR

Butyl rubber, BR

Chloroprene rubber, CR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and therefore has to be checked prior to the application.

• **Penetration time of glove material:**

The exact break through time is established by the manufacturer and must be observed.

• **Eye protection:**



Safety glasses

Safety glasses with side shields should be worn. If splashes are likely to occur, wear goggles or a full face mask. Do not wear contact lenses. Eye wash stations and safety showers should be close to workstation.

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• **Skin and body protection:**

Wear solvent resistant apron and boots. Material should be antistatic and flame resistant.

* **Section 9. Physical and chemical properties**

Information on basic physical and chemical properties

General Information

• **Appearance:**

Form:	Liquid
Color:	Black
Odor:	Characteristic
Odor Threshold:	Not determined
pH-value:	Not applicable

Change in condition

• Melting point/Melting Range	Undetermined.
• Boiling point/Boiling Range	190°C (374°F)
• Flash point:	111° C (232° F)
• Ignition temperature:	400° C (752° F)
• Auto igniting:	Product is not self igniting.
• Danger of explosion:	Product does not present an explosion hazard.

• **Flammable limits:**

Lower:	0.4 Vol %
Upper:	Not determined.

• **Vapor pressure:** Not applicable.

• **Relative density:** Not determined.

• **Vapor density:** Not determined.

• **Evaporation rate:** Not determined.

• **Partition coefficient**

(n-octanol/water: gravity: Not determined.

(n-octanol/water: gravity: Not determined.

• **Solubility in / Miscibility with**

Water: Insoluble.

Viscosity

• Dynamic:	Not determined
• Kinematic:	Not determined
• Organic solvents:	0.0%
• VOC (Per EPA 24) content:	Not available GMSL

• **Solids content:** 100.0%

Other information

No further relevant information available.

* **Section 10. Stability and reactivity**

• **Reactivity:**

Not expected to be explosive, self-reactive or self-heating under normal conditions.

Chemical stability

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*** Section 10. Stability and reactivity**

- **Thermal decomposition/conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions:**
MDI reacts slowly with water to form Carbon Dioxide gas. Reaction with water at high temperatures may be more severe. Avoid contact with bases, alcohols and amines.
- **Conditions to avoid:**
Exposure to high temperatures, open flames, and sparks.
Do not pressurize, cut, weld, braze, drill, or grind on containers.
Moisture
- **Incompatible materials:**
Reacts with acids, alkalis, amines, ammonia, oxidizing agents, polyols.
Reacts with water forming carbon dioxide. May rupture sealed containers if contaminated with water.
- **Hazardous decomposition products:**
Carbon monoxide and carbon dioxide.
Nitrogen oxides
Isocyanate
Hydrocarbons

*** Section 11. Toxicological information**

Information on toxicological effects

Acute toxicity

• LD/LC50 values that are relevant for classification			
101-68-8 4,4'-methylenediphenyl diisocyanate			
Oral	LD50	2200 mg/kg (rat)	
26761-40-0 di-isodecyl" phthalate		LD50	>7426 mg/kg (guinea pig)
Oral	LD50	64000 mg/kg (rat) 32000 ppm (rat)	

Primary irritant effect

- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect

Sensitization

Inhalation-Sensitization possible through inhalation.
Skin Contact- Sensitization possible through skin contact.

Additional toxicological information

This product shows the following dangers according to internally approved calculation methods for preparation:

Harmful
Irritant

Carcinogenic categories

IARC (International Agency for Research on Cancer)		
9016-87-9	diphenylmethanediisocyanate, isomeres and homologues	3
101-68-8	4,4'-methylenediphenyl diisocyanate	3
1333-86-4	Carbon black	2B
NTP (National Toxicology Program)		
None of the ingredients is listed		

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Section 12. Ecological information

Toxicity

- **Aquatic toxicity:** No further relevant information is available
- **Persistence and degradability:** No further information is available.

Behavior in environmental systems

- **Bioaccumulative potential:** No further relevant information is available.
- **Mobility in soil:** No further relevant information is available.

Additional ecological information

- **General notes:** At present there are no ecotoxicological assessments.

Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

Other adverse effects

None

*** Section 13. Disposal considerations**

Wastetreatment methods

- **Recommendation:**
The generation of waste should be avoided or minimized whenever and wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental and waste disposal legislation and all local, regional, and federal authority requirements. Dispose of surplus and non-recyclable products thru a licensed waste disposal contractor. Waste should not be allowed to enter streams, lakes, sewer systems, or other open waterways. Waste packaging should be recycled. This material and its containers that have not been cleaned or rinsed out may contain product residues or vapors that are highly flammable and may explode. Do not cut, weld, or grind used containers. Do not dispose with household garbage. Any contaminated cleaning materials used with this product must be properly disposed and treated as flammable materials unless they have been thoroughly washed and clean of any product or residue. Do not allow product to reach sewage system.

Uncleaned packagings

- **Recommendation:** Disposal must be made in compliance with local, state, regional, and federal regulations.

*** Section 14. Transportation information**

UN-Number

- **DOT, ADR, ADN, IMDG, IATA** Void

UN proper shipping name

- **DOT, ADR, ADN, IMDG, IATA** Void

Transport hazard class(es)

- **DOT, ADR, ADN, IMDG, IATA**
- **Class** Void

Packing group

DOT, ADR, ADN, IMDG, IATA Void

- **Environmental hazards:** Not applicable
- **Special precautions for user:** Not applicable

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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable
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UN proper shipping name	
• DOT, ADR, ADN, IMDG, IATA	Void

UN "Model Regulation":	Not Applicable
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*** Section 15. Regulatory information**

Safety, health and environmental regulations/legislation specific for the substance or mixture.

• **Sara**

• **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

• **Section 313 (Specific toxic chemical listings):**

9016-87-9	diphenylmethanediisocyanate, isomeres and homologues
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101-68-8	4,4'-methylenediphenyl diisocyanate
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• **TSCA (Toxic Substances Control Act):**

All components of the product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

Proposition 65

• **Chemicals known to cause cancer:**

None of the ingredients listed.

• **Chemicals known to cause reproductive toxicity:**

None of the ingredients is listed.

(DSL) Canada Domestic Substance List

All components of this product are on the DSL (Canada Domestic Substance list) or are exempt from DSL requirements.

Carcinogenicity categories

• **EPA (Environmental Protection Agency)**

9016-87-9	diphenylmethanediisocyanate, isomeres and homologues	CBD
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101-68-8	4,4'-methylenediphenyl diisocyanate	CBD
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• **TLV (Threshold Limit Value established by ACGIH)**

1333-86-4	carbon black	A4
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• **MAK (German Maximum Workplace Concentration)**

9016-87-9	diphenylmethanediisocyanate, isomeres and homologues	4
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101-68-8	4,4'-methylenediphenyl diisocyanate	4
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1333-86-4	carbon black	3B
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• **NIOSH-Ca (National Institute for Occupational Safety and Health)**

1333-86-4	carbon black
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• **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

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National regulations

- **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

* **Section 16. Other information**

Although the information and recommendations set forth in this SDS are presented in good faith and are believed to be correct as of the date of this SDS, Roofing Products International, Inc. makes no representations as to the completeness or accuracy thereof. Information is supplied on the condition that the persons receiving and using it will make their own determination as to the suitability for their purpose prior to use. In no event will Roofing Products International, Inc. or any affiliate thereof be responsible for damages of any nature whatsoever resulting from the use or reliance on the information set forth in the SDS.

- **Department issuing SDS:** Technical Services Department
- **Creation Date:** 03/28/2003
- **Date of preparation:** 02/27/2015
- **Last revision:** Format update
- **Abbreviations and acronyms:**

RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer
(Regulation Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organization

IMDG: International Maritime Code for Dangerous Goods

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

DOT: US Department of Transportation

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

End of SDS