

Safety Data Sheet

acc. to OSHA HCS

Printing date: 11/13/2025

Revised on: 11/12/2025

1 Identification

- **Product Name:** RR-7000 CEMENTITIOUS URETHANE PT B
- **Product Number:** 194-R0-104
- **Manufacturer/Supplier:**
Harrison Paint Company
1329 Harrison Ave SW
Canton, OH 44706
USA
- **Information telephone number:** 330-455-5125
- **Emergency telephone number:** 330-455-5125

2 Hazard(s) identification

Classification of the substance or mixture:

| | |
|--|---|
| Acute Toxicity - Inhalation 4 | H332 Harmful if inhaled. |
| Skin Irritation 2 | H315 Causes skin irritation. |
| Eye Irritation 2A | H319 Causes serious eye irritation. |
| Sensitization - Respiratory 1 | H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| Sensitization - Skin 1 | H317 May cause an allergic skin reaction. |
| Carcinogenicity 2 | H351 Suspected of causing cancer. |
| Specific Target Organ Toxicity - Single Exposure 3 | H335 May cause respiratory irritation. |
| Specific Target Organ Toxicity - Repeated Exposure 2 | H373 May cause damage to organs through prolonged or repeated exposure. |

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

Hazard pictograms:

GHS07 GHS08

- **Signal word:** Danger

Hazard-determining components of labeling:

4,4'-methylenediphenyl diisocyanate
diphenylmethanediisocyanate, isomers and homologues
methylenediphenyl diisocyanate
Polyethylene glycol-polymeric MDI copolymer
o-(p-isocyanatobenzyl)phenyl isocyanate

Hazard statements:

Harmful 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.
Suspected of causing cancer.
May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.

(Contd. on page 2)

Safety Data Sheet

acc. to OSHA HCS

Printing date: 11/13/2025

Revised on: 11/12/2025

Product Name: RR-7000 CEMENTITIOUS URETHANE PT B*(Contd. from page 1)*

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

[In case of inadequate ventilation] wear respiratory protection.

If on skin: Wash with plenty of water.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

IF exposed or concerned: Get medical advice/attention.

Call a doctor if you feel unwell.

Specific treatment (see on this label).

Get medical advice/attention if you feel unwell.

Take off contaminated clothing and wash it before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

If experiencing respiratory symptoms: Call a doctor.

Wash contaminated clothing before reuse.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

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

Classification system:**NFPA ratings (scale 0 - 4)**

Health = 2

Fire = 1

Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = *2

Fire = 1

Reactivity = 0

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

3 Composition/information on ingredients

Chemical characterization: Mixture· **Description:** Mixture of the substances listed below with nonhazardous additions.**Hazardous components:**

| | | |
|------------|--|---------|
| 101-68-8 | 4,4'-methylenediphenyl diisocyanate | 40-60% |
| 9016-87-9 | diphenylmethanediisocyanate, isomeres and homologues | 20-30% |
| 26447-40-5 | methylenediphenyl diisocyanate | ≥5-<10% |
| 57636-09-6 | Polyethylene glycol-polymeric MDI copolymer | 1-2.5% |

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Printing date: 11/13/2025

Revised on: 11/12/2025

Product Name: RR-7000 CEMENTITIOUS URETHANE PT B

(Contd. from page 2)

5873-54-1 o-(p-isocyanatobenzyl)phenyl isocyanate

≥0.1-≤0.5%

4 First-aid measures

- **Description of first aid measures:**

- **General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- **For inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- **For skin contact:** Immediately wash with water and soap and rinse thoroughly.

- **For eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- **For swallowing:**

Do not induce vomiting; immediately call for medical help.

A person vomiting while lying on their back should be turned onto their side.

- **Information for doctor:**

- **Most important symptoms and effects, both acute and delayed:** No further relevant information available.

- **Indication of any immediate medical attention and special treatment needed:**

No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media:**

- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

- **Special hazards arising from the substance or mixture:**

During heating or in case of fire poisonous gases are produced.

- **Advice for firefighters:**

- **Protective equipment:**

Mouth respiratory protective device.

Wear self-contained respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:** Mount respiratory protective device.

- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

- **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, universal binder or other inert absorbent).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

- **Reference to other sections:**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

- **Protective Action Criteria for Chemicals**

- **PAC-1:**

| | | |
|-----------|--|------------------------|
| 101-68-8 | 4,4'-methylenediphenyl diisocyanate | 0.45 mg/m ³ |
| 9016-87-9 | diphenylmethanediisocyanate, isomeres and homologues | 0.15 mg/m ³ |

(Contd. on page 4)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date: 11/13/2025

Revised on: 11/12/2025

Product Name: RR-7000 CEMENTITIOUS URETHANE PT B

(Contd. from page 3)

| | | |
|-----------------|--|-----------------------|
| 26447-40-5 | methylenediphenyl diisocyanate | 29 mg/m ³ |
| · PAC-2: | | |
| 101-68-8 | 4,4'-methylenediphenyl diisocyanate | 5 mg/m ³ |
| 9016-87-9 | diphenylmethanediisocyanate, isomeres and homologues | 3.6 mg/m ³ |
| 26447-40-5 | methylenediphenyl diisocyanate | 40 mg/m ³ |
| · PAC-3: | | |
| 101-68-8 | 4,4'-methylenediphenyl diisocyanate | 55 mg/m ³ |
| 9016-87-9 | diphenylmethanediisocyanate, isomeres and homologues | 22 mg/m ³ |
| 26447-40-5 | methylenediphenyl diisocyanate | 240 mg/m ³ |

7 Handling and storage

- **Handling:**
- **Precautions for safe handling:**
 - Ensure good ventilation/exhaustion at the workplace.
 - Open and handle receptacle with care.
 - Prevent formation of aerosols.
- **Information about protection against explosions and fires:** Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities:**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
 - Keep container tightly sealed.
 - Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s):** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters:**
- **Components with limit values that require monitoring at the workplace:**
 - The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
 - At this time, the other constituents have no known exposure limits.

101-68-8 4,4'-methylenediphenyl diisocyanate

| | |
|-----|---|
| PEL | Ceiling limit value: 0.2 mg/m ³ , 0.02 ppm |
| REL | Long-term value: 0.05 mg/m ³ , 0.005 ppm Ceiling limit value: 0.2* mg/m ³ , 0.02* ppm *10-min |
| TLV | Long-term value: 0.005 ppm |

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls:**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 - Keep away from foodstuffs, beverages and feed.

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS

Printing date: 11/13/2025

Revised on: 11/12/2025

Product Name: RR-7000 CEMENTITIOUS URETHANE PT B

(Contd. from page 4)

Immediately remove all soiled and contaminated clothing.
 Wash hands before eating, smoking, using the restroom and at the end of the workday.
 Store protective clothing separately.
 Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low concentrations, use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:


Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves:

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 has therefore to be checked prior to the application.

· Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:


Tightly sealed goggles

9 Physical and chemical properties

· Information on basic physical and chemical properties:
· General Information:
· Appearance:

Form: Fluid
Color: According to product specification

· 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: >110 °C (>230 °F)

· Flammability (solid, gaseous): Not applicable.

· Auto igniting: 400 °C (752 °F)

· Decomposition temperature: Not determined.

(Contd. on page 6)

Safety Data Sheet

acc. to OSHA HCS

Printing date: 11/13/2025

Revised on: 11/12/2025

Product Name: RR-7000 CEMENTITIOUS URETHANE PT B

(Contd. from page 5)

| | |
|---|---|
| · Ignition temperature: | Product is not selfigniting. |
| · Danger of explosion: | Product does not present an explosion hazard. |
| · Explosion limits: | |
| Lower: | Not determined. |
| Upper: | Not determined. |
| · Vapor pressure at 20 °C (68 °F): | 0 hPa |
| · Density at 20 °C (68 °F): | 1.23 g/cm ³ (10.264 lbs/gal) |
| · Relative density: | Not determined. |
| · Vapour density: | Heavier than air. |
| · Evaporation rate: | Slower than ether. |
| · Solubility in / Miscibility with: | |
| Water: | Not miscible or difficult to mix. |
| · Partition coefficient (n-octanol/water): | Not determined. |
| · Viscosity: | |
| Dynamic: | Not determined. |
| Kinematic: | Not determined. |
| · Solvent content: | |
| VOC content: | 0.00 % 0.0 g/l / 0.00 lb/gal |
| Solids content: | 100.0 % |
| · Other information: | No further relevant information available. |

10 Stability and reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** Do not store or use near sparks, flame, or other ignition sources.
- **Incompatible materials:** Strong acids and alkalis, bleach, strong oxidizers.
- **Hazardous decomposition products:**
Burning may yield carbon monoxide, carbon dioxide, oxides of nitrogen, and various hydrocarbons.

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 | 2,200 mg/kg (mouse) |
|------|------|---------------------|

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

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Printing date: 11/13/2025

Revised on: 11/12/2025

Product Name: RR-7000 CEMENTITIOUS URETHANE PT B*(Contd. from page 6)***· Sensitization:**

Sensitization possible through inhalation.
Sensitization possible through skin contact.

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful
Irritant

· Carcinogenic categories:**· IARC (International Agency for Research on Cancer):**

| | | |
|-----------|--|---|
| 101-68-8 | 4,4'-methylenediphenyl diisocyanate | 3 |
| 9016-87-9 | diphenylmethanediisocyanate, isomeres and homologues | 3 |

· NTP (National Toxicology Program):

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients is listed.

12 Ecological information

· Toxicity:

· Aquatic toxicity: No further relevant information available.
· Persistence and degradability: No further relevant information available.

· Behavior in environmental systems:**· Bioaccumulative potential:** No further relevant information available.**· Mobility in soil:** No further relevant information available.**· Additional ecological information:****· General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· Results of PBT and vPvB assessment:**· PBT:** Not applicable.**· vPvB:** Not applicable.**· Other adverse effects:** No further relevant information available.

13 Disposal considerations

· Waste treatment methods:**· Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:**· Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· UN-Number:**· DOT, IMDG, IATA**

UN2810

(Contd. on page 8)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date: 11/13/2025

Revised on: 11/12/2025

Product Name: RR-7000 CEMENTITIOUS URETHANE PT B

(Contd. from page 7)

| | |
|--|---|
| <ul style="list-style-type: none"> · UN proper shipping name: · DOT · IMDG, IATA | <p>Toxic, liquids, organic, n.o.s. (4,4'-methylenediphenyl diisocyanate, diphenylmethanediisocyanate, isomeres and homologues)</p> <p>TOXIC LIQUID, ORGANIC, N.O.S. (4,4'-methylenediphenyl diisocyanate, diphenylmethanediisocyanate, isomeres and homologues)</p> |
|--|---|

· **Transport hazard class(es):**

· **DOT**



· **Class**

6.1 Toxic substances

· **Label**

6.1

· **IMDG, IATA**



· **Class**

6.1 Toxic substances

· **Label**

6.1

· **Packing group:**

· **DOT, IMDG, IATA**

II

· **Environmental hazards:**

Not applicable.

· **Special precautions for user:**

Warning: Toxic substances

· **Hazard identification number (Kemler code):** 60

· **EMS Number:**

F-A,S-A

· **Stowage Category**

B

· **Stowage Code**

SW2 Clear of living quarters.

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:**

Not applicable.

· **Transport/Additional information:**

· **DOT**

· **Quantity limitations:**

On passenger aircraft/rail: 5 L

On cargo aircraft only: 60 L

· **IMDG**

· **Limited quantities (LQ):**

100 ml

· **Excepted quantities (EQ):**

Code: E4

Maximum net quantity per inner packaging: 1 ml

Maximum net quantity per outer packaging: 500 ml

(Contd. on page 9)

Safety Data Sheet

acc. to OSHA HCS

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Revised on: 11/12/2025

Product Name: RR-7000 CEMENTITIOUS URETHANE PT B

(Contd. from page 8)

UN "Model Regulation":

UN 2810 TOXIC LIQUID, ORGANIC, N.O.S. (4,4'-METHYLENEDIPHENYL DIISOCYANATE, DIPHENYLMETHANEDIISOCYANATE, ISOMERES AND HOMOLOGUES), 6.1, II

15 Regulatory information

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

No further relevant information available.

SARA:
Section 355 (extremely hazardous substances):

None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):

101-68-8 | 4,4'-methylenediphenyl diisocyanate

9016-87-9 | diphenylmethanediisocyanate, isomeres and homologues

TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

Hazardous Air Pollutants

101-68-8 | 4,4'-methylenediphenyl diisocyanate

Proposition 65:
Chemicals known to cause cancer:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

Carcinogenic categories:
EPA (Environmental Protection Agency)

101-68-8 | 4,4'-methylenediphenyl diisocyanate

D, CBD

9016-87-9 | diphenylmethanediisocyanate, isomeres and homologues

CBD

TLV (Threshold Limit Value)

None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

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

Hazard pictograms:


GHS07 GHS08

(Contd. on page 10)

Safety Data Sheet

acc. to OSHA HCS

Printing date: 11/13/2025

Revised on: 11/12/2025

Product Name: RR-7000 CEMENTITIOUS URETHANE PT B*(Contd. from page 9)*· **Signal word:** Danger· **Hazard-determining components of labeling:**

4,4'-methylenediphenyl diisocyanate
 diphenylmethanediisocyanate, isomers and homologues
 methylenediphenyl diisocyanate
 Polyethylene glycol-polymeric MDI copolymer
 o-(p-isocyanatobenzyl)phenyl isocyanate

· **Hazard statements:**

Harmful 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.
 Suspected of causing cancer.
 May cause respiratory irritation.
 May cause damage to organs through prolonged or repeated exposure.

· **Precautionary statements:**

Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Do not breathe dust/fume/gas/mist/vapors/spray.
 Wash thoroughly after handling.
 Use only outdoors or in a well-ventilated area.
 Contaminated work clothing must not be allowed out of the workplace.
 Wear protective gloves/protective clothing/eye protection/face protection.
 [In case of inadequate ventilation] wear respiratory protection.
 If on skin: Wash with plenty of water.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
 Continue rinsing.
 IF exposed or concerned: Get medical advice/attention.
 Call a doctor if you feel unwell.
 Specific treatment (see on this label).
 Get medical advice/attention if you feel unwell.
 Take off contaminated clothing and wash it before reuse.
 If skin irritation or rash occurs: Get medical advice/attention.
 If eye irritation persists: Get medical advice/attention.
 If experiencing respiratory symptoms: Call a doctor.
 Wash contaminated clothing before reuse.
 Store in a well-ventilated place. Keep container tightly closed.
 Store locked up.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:** Laboratory· **Contact:** Laboratory Manager· **Date of preparation / last revision:** 11/13/2025· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

(Contd. on page 11)

Safety Data Sheet

acc. to OSHA HCS

Printing date: 11/13/2025

Revised on: 11/12/2025

Product Name: RR-7000 CEMENTITIOUS URETHANE PT B*(Contd. from page 10)*

DOT: US Department of Transportation
IATA: International Air Transport Association
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)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Acute Toxicity - Inhalation 4: Acute toxicity – Category 4
Skin Irritation 2: Skin corrosion/irritation – Category 2
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A
Sensitization - Respiratory 1: Respiratory sensitisation – Category 1
Sensitization - Skin 1: Skin sensitisation – Category 1
Carcinogenicity 2: Carcinogenicity – Category 2
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3
Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2

US