

# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 01/02/2005

Reviewed on 01/02/2005

## 1 Identification of substance

- **Product details**

- **Trade name:** Resi-Chem Adhesive P1241 - Part B

- **Article number:** 83-230797B

- **Application of the substance / the preparation**

- **Manufacturer/Supplier:**

Symons

4226 Kansas Avenue

Kansas City, KS 66106

Tel.: (877) 854-0643

*Emergency Telephone Number: Use only in the event of an emergency involving a spill, leak, fire, exposure, or accident involving chemicals. Within the U.S., Canada, or the U.S. Virgin Islands, call ChemTrec at (800) 424-9300, 24 hours a day. Or, outside these areas, call (703) 527-3887. Collect calls are accepted.*

- **Information department:** Environmental, Health, and Safety department.

## 2 Composition/Data on components

- **Chemical characterization**

- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

101-68-8	4,4'-methylenediphenyl diisocyanate	50-75%
26447-40-5	methylenediphenyl diisocyanate	£ 5%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

## 3 Hazards identification

- **Hazard description:** Not applicable.

- **Information pertaining to particular dangers for man and environment:**

*The product has to be labelled due to internationally acknowledged calculation procedures using the latest valid versions.*

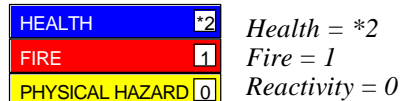
- **Classification system:**

*The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.*

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



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



USA

(Contd. on page 2)

# Material Safety Data Sheet

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**Trade name: Resi-Chem Adhesive P1241 - Part B**

(Contd. of page 1)

## 4 First aid measures

**· General information:**

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

**· After inhalation:**

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

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

**· After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

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

## 5 Fire fighting measures

**· Suitable extinguishing agents:** Use fire fighting measures that suit the environment.**· Protective equipment:** Mouth respiratory protective device.

## 6 Accidental release measures

**· Person-related safety precautions:** Not required.**· Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.**· Measures for cleaning/collecting:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

## 7 Handling and storage

**· Handling:****· Information for safe handling:**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

**· Information about protection against explosions and fires:** No special measures required.**· 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 receptacle tightly sealed.

## 8 Exposure controls and personal protection

**· Additional information about design of technical systems:** No further data; see item 7.

(Contd. on page 3)

USA

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Trade name: **Resi-Chem Adhesive P1241 - Part B**

(Contd. of page 2)

**· Components with limit values that require monitoring at the workplace:**

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

PEL ()	Short-term value: C 0.2 mg/m <sup>3</sup> , C 0.02 ppm
REL ()	Short-term value: C 0.2* mg/m <sup>3</sup> , C 0.02* ppm Long-term value: 0.05 mg/m <sup>3</sup> , 0.005 ppm *10-min
TLV ()	0.051 mg/m <sup>3</sup> , 0.005 ppm

**· Additional information:** The lists that were valid during the creation were used as basis.

**· Personal protective equipment:**

**· General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Do not inhale gases / fumes / aerosols.  
Avoid contact with the eyes and skin.

**· Breathing equipment:**

In case of brief exposure or low pollution 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.  
Select the glove material upon 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

**· General Information**

<b>Form:</b>	Fluid
<b>Color:</b>	According to product specification
<b>Odor:</b>	Characteristic

**· Change in condition**

**Melting point/Melting range:** Undetermined.

(Contd. on page 4)

USA

# Material Safety Data Sheet

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Printing date 01/02/2005

Reviewed on 01/02/2005

Trade name: **Resi-Chem Adhesive P1241 - Part B**

(Contd. of page 3)

<b>Boiling point/Boiling range:</b>	208°C (406°F)
· <b>Flash point:</b>	> 149°C (> 300°F)
· <b>Ignition temperature:</b>	520.0°C (968°F)
· <b>Auto igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
<b>Lower:</b>	0.4 Vol %
· <b>Vapor pressure at 20°C (68°F):</b>	0.0 hPa (0 mm Hg)
· <b>Density at 20°C (68°F):</b>	1.21 g/cm <sup>3</sup>
· <b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	0.0 %
· <b>Solids content:</b>	70.0 %
· <b>Volatile Organic Compounds:</b>	Not determined

## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous products of decomposition:** No dangerous decomposition products known.

## 11 Toxicological information

### · Acute toxicity:

#### · LD/LC50 values that are relevant for classification:

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

Oral	LD50	2200 mg/kg (mouse)
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### · Primary irritant effect:

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

### · 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

USA

(Contd. on page 5)

# Material Safety Data Sheet

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Reviewed on 01/02/2005

Trade name: Resi-Chem Adhesive P1241 - Part B

(Contd. of page 4)

## 12 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.

## 13 Disposal considerations

- **Product:**

- **Recommendation:** Must not be disposed of as normal garbage. Do not allow product to reach sewage system.

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to Federal, State, and Local regulations.

## 14 Transport information

- **DOT regulations:**



- **Hazard class:**

9

- **Identification number:**

UN3082

- **Packing group:**

III

- **Proper shipping name (technical name):**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4,4'-methylenediphenyl diisocyanate)

- **Label**

9

- **Limited Quantity Exemption:**

No Limited Quantity exemption applies for this shipping class.

- **U.S. Domestic Ground Shipments:**

Not Regulated by D.O.T.

- **U.S. Domestic Ground Non-Bulk (119 gal or less per container) Shipments:**

Not Regulated by D.O.T.

- **Emergency Response Guide (ERG) Number:**

Not determined

- **Maritime transport IMDG:**

- **Marine pollutant:**

No

## 15 Regulations

- **Sara**

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

None of the ingredient is listed.

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

This product may contain 1 or more toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR part 372. If so, the chemicals are listed below.

101-68-8	4,4'-methylenediphenyl diisocyanate
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50-75%

(Contd. on page 6)

**Material Safety Data Sheet**  
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Trade name: Resi-Chem Adhesive P1241 - Part B

(Contd. of page 5)

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65**· **Chemicals known to the State of California (Prop. 65) to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to the State of California (Prop. 65) to cause reproductive toxicity:**

None of the ingredients is listed.

· **Carcinogenicity categories**· **EPA (Environmental Protection Agency)**

101-68-8 | 4,4'-methylenediphenyl diisocyanate | CBD;D

· **IARC (International Agency for Research on Cancer)**

101-68-8 | 4,4'-methylenediphenyl diisocyanate | 3

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

· **MAK (German Maximum Workplace Concentration)**

101-68-8 | 4,4'-methylenediphenyl diisocyanate | 3

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

None of the ingredients is listed.

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

None of the ingredients is listed.

· **Product related hazard informations:**

The product has been classified and marked in accordance with directives on hazardous materials.

· **Hazard symbols: Xn Harmful**· **Hazard-determining components of labelling:**4,4'-methylenediphenyl diisocyanate  
methylenediphenyl diisocyanate· **Risk phrases:**20 Harmful by inhalation.  
36/37/38 Irritating to eyes, respiratory system and skin.  
42/43 May cause sensitisation by inhalation and skin contact.

(Contd. on page 7)

USA

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(Contd. of page 6)

· **Safety phrases:**

- 1/2 *Keep locked up and out of the reach of children.*
- 9 *Keep container in a well-ventilated place.*
- 13 *Keep away from food, drink and animal feedingstuffs.*
- 23 *Do not breathe fumes/aerosol.*
- 24/25 *Avoid contact with skin and eyes.*
- 26 *In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.*
- 28 *After contact with skin, wash immediately with plenty of soap and water.*
- 37 *Wear suitable gloves.*
- 45 *In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).*
- 52 *Not recommended for interior use on large surface areas.*
- 56 *Dispose of this material and its container to hazardous or special waste collection point.*
- 60 *This material and its container must be disposed of as hazardous waste.*
- 63 *In case of accident by inhalation: remove casualty to fresh air and keep at rest.*
- 64 *If swallowed, rinse mouth with water (only if the person is conscious).*

· **Special labeling of certain preparations:** *Contains isocyanates. See information supplied by the manufacturer.*

· **National regulations:**

· **Water hazard class:** *Water hazard class 1 (Self-assessment): slightly hazardous for water.*

## 16 Other information

*The provided 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.*

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· **Department issuing MSDS:** *Environmental, Health & Safety Department*

· **Contact:** *Environmental, Health & Safety Manager*