

# Safety data sheet

## CX941 ADHESIVE

Revision date : 2008/11/24  
Version: 1.0

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(30367681/MDS\_GEN\_US/EN)

### 1. Substance/preparation and company identification

Company  
BASF Construction Chemicals  
100 Campus Drive  
Florham Park, NJ 07932

24 Hour Emergency Response Information  
CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP

Chemical family: aromatic isocyanates

### 2. Composition/information on ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
14807-96-6	15.0 - 40.0 %	talc
101-68-8	7.0 - 13.0 %	Diphenylmethane-4,4'-diisocyanate (MDI)
64742-46-7	7.0 - 13.0 %	Distillates (petroleum), hydrotreated middle
26447-40-5	3.0 - 7.0 %	Methylenediphenyl diisocyanate
9016-87-9	1.0 - 5.0 %	P-MDI

### 3. Hazard identification

#### Emergency overview

WARNING: CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION.  
MAY BE HARMFUL IF INHALED.  
REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE.

This product contains isocyanates.  
Prolonged or repeated skin contact may cause sensitization or allergic reactions.  
Avoid contact with the skin, eyes and clothing.  
Wash thoroughly after handling.  
Keep container tightly closed.

#### Potential health effects

##### **Primary routes of exposure**

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

##### **Acute toxicity:**

Overexposure may cause CNS depression including headache, dizziness, nausea and loss of consciousness. Based on the properties of the isocyanate components and considering toxicological data on similar product, this product may cause acute irritation and/or sensitization of the respiratory system leading to an asthmatic condition, wheeziness and tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the occupational exposure limit. Repeated inhalation may lead to a permanent respiratory disability.

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*Information on: Diphenylmethane-4,4'-diisocyanate (MDI)*

*Of moderate toxicity after short-term inhalation.*

*Virtually nontoxic after a single ingestion.*

*Virtually nontoxic after a single skin contact.*

*Information on: Distillates (petroleum), hydrotreated middle*

*Virtually nontoxic after a single ingestion.*

*Virtually nontoxic after a single skin contact.*

*Of moderate toxicity after short-term inhalation.*

*Irrespective of this assessment the substance has to be classified as toxic due to its carcinogenic potential.*

### **Irritation:**

Irritating to eyes, respiratory system and skin. Prolonged or repeated contact may result in dermatitis.

*Information on: Diphenylmethane-4,4'-diisocyanate (MDI)*

*Irritating to eyes, respiratory system and skin. Information on: Distillates (petroleum), hydrotreated middle*

*May cause slight irritation to the skin. Not irritating to the eyes.*

### **Sensitization:**

May cause sensitization by inhalation and skin contact.

*Information on: Diphenylmethane-4,4'-diisocyanate (MDI)*

*The substance may cause sensitization of the respiratory tract.*

*Sensitization after repeated skin contact possible.*

### **Repeated dose toxicity:**

Overexposure may cause CNS depression including headache, dizziness, nausea and loss of consciousness.

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## 4. First-aid measures

### **If inhaled:**

Remove victim to fresh air and away from exposure immediately. If not breathing, give artificial respiration. Seek medical attention.

### **If in eyes:**

Flush with copious amounts of water for at least 15 minutes. If symptoms persist, seek medical advice.

### **If swallowed:**

Do not induce vomiting unless told to by a poison control center or doctor. If person is conscious and can swallow, give two glasses of water.

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## 5. Fire-fighting measures

Flash point: > 200 °F  
> 93.3 °C

Autoignition:

No data available.

Lower explosion limit: 1.6 %(V)  
Upper explosion limit: 10.2 %(V)

### **Suitable extinguishing media:**

carbon dioxide, dry extinguishing media, foam, water fog

### **Hazards during fire-fighting:**

Burning produces harmful and toxic fumes.

### **Protective equipment for fire-fighting:**

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

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### Further information:

Sealed containers should be protected against heat as this results in pressure build-up. Keep containers cool by spraying with water if exposed to fire.

## 6. Accidental release measures

### Personal precautions:

Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

### Environmental precautions:

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

### Cleanup:

Dike spillage. Vacuum up spilled product. Pick up with inert absorbent material (if possible). Dispose of absorbed material in accordance with regulations.

## 7. Handling and storage

### Handling

#### General advice:

Keep away from sources of ignition - No smoking. Ensure thorough ventilation of stores and work areas.

## 8. Exposure controls and personal protection

### Components with workplace control parameters

talc	OSHA	TWA value 20 millions of particles per cubic foot of air ; TWA value 2.4 millions of particles per cubic foot of air Respirable ; TWA value 0.1 mg/m3 Respirable ; TWA value 0.3 mg/m3 Total dust ;
Diphenylmethane-4,4'-diisocyanate (MDI)	ACGIH OSHA ACGIH	TWA value 2 mg/m3 Respirable fraction ; CLV 0.02 ppm 0.2 mg/m3 ; TWA value 0.005 ppm ;

### Advice on system design:

Provide local exhaust ventilation to maintain recommended P.E.L.

### Personal protective equipment

#### Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) respirator as necessary.

#### Hand protection:

Wear chemical resistant protective gloves.

#### Eye protection:

Safety glasses with side-shields. Wear face shield if splashing hazard exists.

#### Body protection:

Impermeable protective clothing

#### General safety and hygiene measures:

Precautions must be taken so that persons handling isocyanates do not breathe the vapors or have it contact the eyes or skin. Food, beverages, and tobacco products shall not be carried, stored, or consumed where this

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material is in use. Hands and/or face should be washed before breaks and at the end of the shift. Handle in accordance with good industrial hygiene and safety practice.

### 9. Physical and chemical properties

Form:	liquid	
Odour:	oily, mild	
Colour:	clear	
pH value:		not applicable
Melting point:		No data available.
Boiling point:	172.22 - 267.78 °C	
Vapour pressure:		No data available.
Relative density:	1.25	
Vapour density:		Heavier than air.
Partitioning coefficient n-octanol/water (log Pow):		No data available.
Viscosity, dynamic:		No data available.
Solubility in other solvents:		slightly soluble

### 10. Stability and reactivity

**Conditions to avoid:**

Avoid prolonged exposure to extreme heat. Avoid moisture.

**Substances to avoid:**

strong oxidizing agents

**Hazardous reactions:**

The product is chemically stable.

No hazardous reactions when stored and handled according to instructions.

**Decomposition products:**

gases/vapours, carbon oxides

### 11. Toxicological information

**Acute toxicity**

**Oral:**

No data available.

**Inhalation:**

No data available.

**Dermal:**

No data available.

**Sensitization:**

Can sensitize the skin and/or respiratory tract of allergic persons.

**Carcinogenicity:**

*Information on: Diphenylmethane-4,4'-diisocyanate (MDI)*

*Indication of possible carcinogenic effect in animal tests.*

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### 12. Ecological information

#### Environmental toxicity

**Other ecotoxicological advice:**  
Ecological data are not available.

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### 13. Disposal considerations

**Waste disposal of substance:**  
Do not discharge into drains/surface waters/groundwater.  
Dispose of in accordance with local authority regulations.

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### 14. Transport information

**Land transport**  
USDOT

Not classified as a dangerous good under transport regulations

**Sea transport**  
IMDG

Not classified as a dangerous good under transport regulations

**Air transport**  
IATA/ICAO

Not classified as a dangerous good under transport regulations

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### 15. Regulatory information

#### Federal Regulations

**Registration status:**  
TSCA, US released / listed

**OSHA hazard category:** IARC 1, 2A or 2B carcinogen, Chronic target organ effects reported, OSHA PEL established, ACGIH TLV established

**SARA hazard categories (EPCRA 311/312):** Acute, Chronic

**SARA 313:**

<u>CAS Number</u>	<u>Chemical name</u>
101-68-8	Diphenylmethane-4,4'-diisocyanate (MDI)
9016-87-9	P-MDI

**State regulations**

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### State RTK

<u>CAS Number</u>	<u>Chemical name</u>	<u>State RTK</u>
14807-96-6	talc	MA, NJ, PA
101-68-8	Diphenylmethane-4,4'-diisocyanate (MDI)	MA, NJ, PA
26447-40-5	Methylenediphenyl diisocyanate	NJ
9016-87-9	P-MDI	NJ

### CA Prop. 65:

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

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## 16. Other information

### HMIS III rating

Health: 2 $\square$

Flammability: 0

Physical hazard: 0

HMIS uses a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates high hazard.

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### Local contact information

NTU/R NAFTA

END OF DATA SHEET