

Safety data sheet

TF100 PTA

Revision date : 2008/09/03
Version: 1.0

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(30421014/MDS_GEN_US/EN)

1. Substance/preparation and company identification

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

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

2. Composition/information on ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
101-68-8	10.0 - 30.0 %	Diphenylmethane-4,4'-diisocyanate (MDI)
26447-40-5	5.0 - 10.0 %	Methylenediphenyl diisocyanate
	5.0 - 10.0 %	Modified MDI

3. Hazard identification

Emergency overview

WARNING: CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
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:

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. Diisocyanates may cause an allergic respiratory reaction in some individuals, leading to asthma-like spasms of the bronchial tubes and difficulty breathing.

Irritation:

Irritating to eyes, respiratory system and skin.

Sensitization:

May cause sensitization by inhalation and skin contact.

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4. First-aid measures

If inhaled:

Remove victim to fresh air and away from exposure immediately. DO NOT USE. Only for the PT phrase position. If not breathing, give artificial respiration. Seek medical attention.

If on skin:

Remove contaminated clothing. Wash skin with soap and water, rinse abundantly. If symptoms persist, seek medical advice.

If in eyes:

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

If swallowed:

Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. 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.

5. Fire-fighting measures

Suitable extinguishing media:

carbon dioxide, dry extinguishing media, foam, water fog

Hazards during fire-fighting:

nitrous gases, fumes/smoke, isocyanate, vapour

Protective equipment for fire-fighting:

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

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:

Clear area. Ensure adequate ventilation. DO NOT USE. Only for the PT phrase position.

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:

Avoid contact with the skin, eyes and clothing. Ensure thorough ventilation of stores and work areas.

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8. Exposure controls and personal protection

Components with workplace control parameters

Diphenylmethane-4,4'-diisocyanate (MDI) OSHA CLV 0.02 ppm 0.2 mg/m³ ;
ACGIH 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 a NIOSH-certified (or equivalent) respirator as necessary. Wear respiratory protection if ventilation is inadequate. For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or Immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

Hand protection:

Wear chemical resistant protective gloves.

Eye protection:

Tightly fitting safety goggles (chemical goggles). 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. Wear protective clothing as necessary to prevent contact. Eye wash fountains and safety showers must be easily accessible. Observe the appropriate PEL value. Food, beverages, and tobacco products shall not be carried, stored, or consumed where this material is in use. Hands and/or face should be washed before breaks and at the end of the shift. Wash soiled clothing immediately. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Form:	liquid	
	liquid	
Odour:	slight odour	
Colour:	light brown	
pH value:		No data available.
Vapour pressure:		No data available.
Relative density:	1.12	
Vapour density:		Heavier than air.
Partitioning coefficient n-octanol/water (log Pow):		No data available.
Viscosity, dynamic:		No data available.

10. Stability and reactivity

Conditions to avoid:

Avoid moisture. Avoid excessive temperatures.

Substances to avoid:

oxidizing agents, acids, bases, water

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Hazardous reactions:

The product is stable if stored and handled as prescribed/indicated.

Reacts with alcohols, amines, aqueous acids and alkalies. Reacts with ammonia. Reacts with water.

Decomposition products:

Hazardous decomposition products: carbon oxides, nitrogen oxides, aromatic isocyanates, gases/vapours

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.

12. Ecological information

Environmental toxicity

Other ecotoxicological advice:

Ecological data are not available.

13. Disposal considerations

Waste disposal of substance:

Dispose of in accordance with national, state and local regulations.

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:

released / listed

OSHA hazard category:

Chronic target organ effects reported, ACGIH TLV established

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

SARA 313:

CAS Number

101-68-8

Chemical name

Diphenylmethane-4,4'-diisocyanate (MDI)

State regulations

State RTK

CAS Number

101-68-8

26447-40-5

Chemical name

Diphenylmethane-4,4'-diisocyanate (MDI)

Methylenediphenyl diisocyanate

State RTK

MA, NJ, PA

NJ

16. Other information

HMIS III rating

Health: 3

Flammability: 1

Physical hazard: 1

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.

Local contact information

END OF DATA SHEET