

Safety data sheet

Page: 1/9

BASF Safety data sheet according to Regulation (EC) No. 1907/2006

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Product: **CONIPUR TC 481,P.B**

(30351141/SDS_GEN_EU/EN)

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1. Substance/preparation and company identification

CONIPUR TC 481,P.B

Use: Product for construction chemicals

Company:

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2. Hazard identification

Possible Hazards

Flammable.

May cause sensitization by skin contact.

Harmful by inhalation and in contact with skin.

3. Composition/information on ingredients

Chemical nature

Prepolymer based on: isocyanate, aliphatic, modified, in water

Hazardous ingredients

according to Directive 1999/45/EC

Hexane, 1,6-diisocyanato-, homopolymer

Content (W/W): $\geq 50\%$ - $< 75\%$

CAS Number: 28182-81-2

Hazard symbol(s): Xi

R-phrases: 43

xylene

Content (W/W): $\geq 10\%$ - $< 20\%$

CAS Number: 1330-20-7

EC-Number: 215-535-7

INDEX-Number: 601-022-00-9

Hazard symbol(s): Xn

R-phrases: 10, 20/21, 38

ethylbenzene

Content (W/W): $\geq 0\%$ - $< 5\%$

CAS Number: 100-41-4

EC-Number: 202-849-4

INDEX-Number: 601-023-00-4

Hazard symbol(s): F, Xn

R-phrases: 11, 20

1,6-hexamethylene diisocyanate

Content (W/W): $\geq 0\%$ - $< 1\%$

CAS Number: 822-06-0

EC-Number: 212-485-8

INDEX-Number: 615-011-00-1

Hazard symbol(s): T

R-phrases: 23, 36/37/38, 42/43

The wording of the hazard symbols and R-phrases is specified in chapter 16 if dangerous ingredients are mentioned.

4. First-Aid Measures

General advice:

First aid personnel should pay attention to their own safety. Remove contaminated clothing.

If inhaled:

Remove the affected individual into fresh air and keep the person calm. If breathing difficulties develop, aid in breathing and seek immediate medical attention.

On skin contact:

Wash thoroughly with soap and water. Under no circumstances should organic solvent be used. If irritation develops, seek medical attention.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Rinse mouth and then drink plenty of water. Do not induce vomiting due to aspiration hazard. Do not induce vomiting unless told to by a poison control center or doctor.

5. Fire-Fighting Measures

Suitable extinguishing media:

dry extinguishing media, alcohol-resistant foam

Unsuitable extinguishing media for safety reasons:

water jet

Specific hazards:

carbon dioxide, carbon monoxide, harmful vapours, nitrogen oxides, fumes/smoke, carbon black

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. Containers may rocket or explode in heat of fire. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental Release Measures

Personal precautions:

Use personal protective clothing. Avoid prolonged inhalation. Avoid contact with the skin, eyes and clothing. Avoid all sources of ignition: heat, sparks, open flame.

Environmental precautions:

Prevent spread over a wide area (e.g. by containment or oil barriers). Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up:

For large amounts: Pump off product.

For residues: Pick up with inert absorbent material (e.g. sand, earth etc.). Correctly dispose of recovered product immediately.

7. Handling and Storage

Handling

Take precautionary measures against static discharges. Keep away from sources of ignition - No smoking. Provide good room ventilation even at ground level (vapours are heavier than air).

Protection against fire and explosion:

Sources of ignition should be kept well clear. Take precautionary measures against static discharges. Substance/product can form explosive mixture with air. Vapours are heavier than air and may accumulate in low areas and travel a considerable distance up to the source of ignition.

Storage

Suitable materials for containers: tin (tinplate)

Further information on storage conditions: Keep container tightly closed and in a well-ventilated place. Keep away from heat. Avoid all sources of ignition: heat, sparks, open flame.

8. Exposure controls and personal protection

Components with workplace control parameters

28182-81-2: Hexane, 1,6-diisocyanato-, homopolymer

1330-20-7: xylene

100-41-4: ethylbenzene

822-06-0: 1,6-hexamethylene diisocyanate

Personal protective equipment

Respiratory protection:

Respiratory protection in case of vapour/aerosol release. Suitable respiratory protection for higher concentrations or long-term effect: Gas filter for gases/vapours of organic compounds (boiling point <65 °C, f.e. EN 14387 Type AX)

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other. Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen based on level of activity and exposure., Antistatic apron

General safety and hygiene measures:

Avoid inhalation of dusts/mists/vapours. Avoid contact with the skin, eyes and clothing. Avoid prolonged and/or repeated contact with the skin. Handle in accordance with good building materials hygiene and safety practice. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks).

9. Physical and Chemical Properties

Form:	liquid	
Colour:	colourless	
Odour:	solvent-like	
pH value:	not soluble	
Flash point:	approx. 43 °C	(DIN 53213-1)
Explosion hazard:	not explosive	
Fire promoting properties:	not fire-propagating	
Density:	approx. 1.07 g/cm ³ (20 °C)	
Solubility in water:	insoluble (20 °C)	
Miscibility with water:	(20 °C) immiscible	
Viscosity, dynamic:	approx. 200 mPa.s (23 °C)	

10. Stability and Reactivity

Conditions to avoid:
See MSDS section 7 - Handling and storage.

Thermal decomposition: Vapours may form explosive mixture with air. No decomposition if stored and handled as prescribed/indicated.

Hazardous reactions:
No hazardous reactions if stored and handled as prescribed/indicated.

11. Toxicological Information

Acute toxicity

Information on: Hexane, 1,6-diisocyanato-, homopolymer
Experimental/calculated data:
LD50 rat (oral): > 5,000 mg/kg

Irritation

Information on: Hexane, 1,6-diisocyanato-, homopolymer
Experimental/calculated data:
Skin corrosion/irritation rabbit: Slightly irritating.

Information on: Hexane, 1,6-diisocyanato-, homopolymer
Experimental/calculated data:
Serious eyes damages/irritation rabbit: non-irritant
Literature data.

Respiratory/Skin sensitization

Assessment of sensitization:

▮ May produce an allergic reaction. Sensitization after skin contact possible.

Experimental/calculated data:

▮ May produce an allergic reaction.

Information on: Hexane, 1,6-diisocyanato-, homopolymer
Experimental/calculated data:
Guinea pig maximization test guinea pig: skin sensitizing (OECD Guideline 406)
The product has not been tested. The statement has been derived from products of a similar structure and composition.

Other relevant toxicity information

May cause paraesthesia. Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. The product has not been tested. The statement has been derived from products of a similar structure and composition.

12. Ecological Information

Ecotoxicity

Information on: Hexane, 1,6-diisocyanato-, homopolymer
Assessment of aquatic toxicity:
Acutely harmful for aquatic organisms. The product may hydrolyse. The test result maybe partially due to degradation products.

Information on: Hexane, 1,6-diisocyanato-, homopolymer
Toxicity to fish:
LC0 (96 h) >= 100 mg/l, Brachydanio rerio (OECD 203; ISO 7346; 92/69/EEC, C.1, static)

The product may hydrolyse. The test result maybe partially due to degradation products. The product has low solubility in the test medium. An eluate has been tested.

Information on: Hexane, 1,6-diisocyanato-, homopolymer

Aquatic invertebrates:

EC50 (48 h) > 100 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)

Nominal concentration. The product may hydrolyse. The test result maybe partially due to degradation products. The product has not been tested. The statement has been derived from products of a similar structure and composition.

Additional information

Other ecotoxicological advice:

There is a high probability that the product is not acutely harmful to aquatic organisms. Do not discharge product into the environment without control. The product has not been tested. The statement has been derived from products of a similar structure and composition.

13. Disposal Considerations

Observe national and local legal requirements.

The waste code in accordance with the European waste catalog (EWC) must be specified in cooperation with disposal agency/manufacturer/authorities.

Residues should be disposed of in the same manner as the substance/product.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

14. Transport Information

Land transport

ADR

Hazard class:	3
Packing group:	III
ID number:	UN 1993
Hazard label:	3
Proper shipping name:	FLAMMABLE LIQUID, N.O.S. (contains XYLENE)

RID

Hazard class:	3
Packing group:	III
ID number:	UN 1993
Hazard label:	3
Proper shipping name:	FLAMMABLE LIQUID, N.O.S. (contains XYLENE)

Inland waterway transport

ADNR

Hazard class: 3
 Packing group: III
 ID number: UN 1993
 Hazard label: 3
 Proper shipping name: FLAMMABLE LIQUID, N.O.S. (contains XYLENE)

Sea transport

IMDG

Hazard class: 3
 Packing group: III
 ID number: UN 1993
 Hazard label: 3
 Marine pollutant: NO
 Proper shipping name: FLAMMABLE LIQUID, N.O.S. (contains XYLENE)

Air transport

IATA/ICAO

Hazard class: 3
 Packing group: III
 ID number: UN 1993
 Hazard label: 3
 Proper shipping name: FLAMMABLE LIQUID, N.O.S. (contains XYLENE)

15. Regulatory Information**Regulations of the European union (Labelling) / National legislation/Regulations**

Hazard symbol(s)

Xn Harmful.

R-phrase(s)

R10 Flammable.
 R43 May cause sensitization by skin contact.
 R20/21 Harmful by inhalation and in contact with skin.

S-phrase(s)

S2 Keep out of the reach of children.
 S51 Use only in well-ventilated areas.
 S36/37 Wear suitable protective clothing and gloves.
 S46 If swallowed, seek medical advice immediately and show this container or label.

Contains isocyanates. Observe manufacturer's instructions.

Hazard determining component(s) for labelling: XYLENE, POLYFUNCTIONAL ISOCYANATE

Other regulations

16. Other Information

Full text of hazard symbols and R-phrases if mentioned as hazardous components in chapter 3:

Xi	Irritant.
Xn	Harmful.
F	Highly flammable.
T	Toxic.
43	May cause sensitization by skin contact.
10	Flammable.
20/21	Harmful by inhalation and in contact with skin.
38	Irritating to skin.
11	Highly flammable.
20	Harmful by inhalation.
23	Toxic by inhalation.
36/37/38	Irritating to eyes, respiratory system and skin.
42/43	May cause sensitization by inhalation and skin contact.

Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.