

# MATERIAL SAFETY DATASHEET

**COMMERCIAL NAME**

**CONIPUR 78, PART B**

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## 01. Product & Company Identification

Produced by

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## 02. Composition/information on ingredients

### Chemical characterization

Mixture of diphenylmethane diisocyanates and polymer constituents

MIXTURES OF: DIPHENYLMETHANE-4,4'-DI-ISOCYANATE, DIPHENYLMETHANE-2,4'-DIISOCYANATE AND DIPHENYLMETHANE-2,2'-DIISOCYANATE ; CAS-No. : 9016-87-9 ; Index-No. : 615-005-00-9

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## 03. Hazards identification

### Hazard designation

May cause sensitization by inhalation and skin contact · Harmful by inhalation · Irritating to eyes, respiratory system and skin

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## 04. First-aid measures

### General

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

### After inhalation

Take the casualty into the fresh air and keep warm. Keep at rest. Irregular breathing/no breathing: artificial respiration. Unconsciousness: lateral position - call a physician.

### After skin contact

Immediately remove all contaminated clothing. Wash away with soap and water and rinse. Do NOT use solvents or thinners.

### After eye contact

Remove contact lenses, keep eyelids open. Flush with plenty of water (10 - 15 min.). Call a physician.

### After ingestion

Contact a doctor immediately. Keep at rest. Do not induce vomiting.

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## 05. Fire-fighting measures

### Suitable extinguishing media

Alcohol resistant foam, CO<sub>2</sub>, powders, water spray.

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## Unsuitable extinguishing media

Waterjet.

## Special risk posed by the substance or by the actual preparation, its combustion products or gases discharged

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. During fires carbon monoxide, nitrogen oxide, isocyanate vapour and traces of hydrogen cyanide may be given off.

## Special protective equipment

Appropriate breathing apparatus may be required.

## Additional information

Cool endangered containers with water in case of fire. Do not allow the quenching water into the sewage system.

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## 06. Accidental release measures

### Personal precautions

Remove ignition sources. Provide for sufficient ventilation. Do not inhale the vapour. Refer to protective measures listed in sections 7 and 8.

### Environmental precautions

Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

### Methods for cleaning up/collecting

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Subsequently put in the waste container. Do not seal (CO<sub>2</sub> may be given off).

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## 07. Handling and storage

### Information for safe handling

Provide for fresh air ventilation. Do not inhale the vapour. Avoid contact with skin and eyes. Do not eat or drink during work - no smoking. Comply with the health and safety at work laws.

### Information about protection against explosions and fires

No particular measures required.

### Requirements to be met by storerooms and containers

Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

### Information about separation of incompatible products

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

### Further information about storage conditions

Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Containers should be kept dry and sealed. Avoid heating over 50°C. Avoid cooling to under 0°C.

Storage class (VCI) : 10

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## 08. Exposure controls and personal protection

### Additional information about engineering measures

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of vapours or particles below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn. Allergics and persons who have problems with the respiration tract are not recommended to work with this product.

### Components with critical values that require monitoring at the workplace (exposure limits)

DIPHENYLMETHANE-4,4'-DIISOCYANATE ; CAS-No. : 101-68-8

Specification : TRGS 900 - maximum limit in the atmosphere at the workplace ( D )  
Value : 0.005 ppm / 0.05 mg/m<sup>3</sup>  
Category : = 1 =  
Remarks : S  
Version date : 01.02.2000

Specification : TRGS 903 - biological workplace tolerance values ( D )  
Parameter : 4,4'-DIAMINODIPHENYLMETHANE / urine / end of exposure or shift  
Value : 10 µg/g Kreatinin  
Version date : 01.08.1999

### Personal protective equipment

#### Respiratory protection

By spraying: air fed respirator. By other operations than spraying: in well ventilated areas, airfed respirators could be replaced by a combination of charcoal filter and particulate filter mask.

#### Hand protection

Protective gloves, PVC or rubber. , e.g. Butyl rubber After washing hands replace lost skin fat by fat containing skin creams.

#### Eye protection

Use safety glasses.

#### Body protection

Light protective clothing.

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## 09. Physical and chemical properties

### Image

Form : Liquid.  
Colour : Dark-brown.  
Odour : Earthy, musty.

### Relevant safety data

Melting point / range :	( 1013 hPa )	<	0 °C	
Decomposition point / range :	( 101300 Pa )	ca.	260 °C	
Flash point :		ca.	220 °C	DIN 53213
Ignition temperature :		>	400 °C	

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Vapour pressure :	( 50 °C )	<	0.0001 hPa
Density :	( 20 °C )	ca.	1.25 g/cm <sup>3</sup>
Solvent-separation test :	( 20 °C )		not applicable
Viscosity :	( 23 °C )	ca.	100 mPa.s

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## 10. Stability and reactivity

### Conditions to avoid

Stable under recommended storage and handling conditions(See section 7).

### Materials to avoid

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. Exothermic reaction with amines and alcohols. In contact with water (moisture) CO<sub>2</sub> is formed which leads to an excess pressure in closed containers.

### Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

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## 11. Toxicological information

### Experience on practice

Based on the properties of the isocyanate components and considering toxicological data on similar preparations, this preparation may cause acute irritation and/or sensitization of the respiratory system leading to an asthmatic condition, wheeziness and a tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL (=Occupational Exposure Limit). Repeated exposure may lead to permanent respiratory disability. Delayed reactions possible (breathing problems, coughs, asthma)

### Additional toxicological information

The product was classified in toxicological terms on the basis of the results of the calculation procedure outlined within General Directive on Preparations (88/379/EEC).

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## 12. Ecological information

Is converted in connection with water in a solid, insoluble and inert polyurea, liberating CO<sub>2</sub>.

### Additional ecological information

#### General ecological information

Do not empty into waters or drains.

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## 13. Disposal considerations

Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant. Uncleaned packaging must be disposed of in the same manner as the medium.

### Product

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## Recommendation

In accordance with local official regulations. Pass on to an appropriate incinerating plant or depository or recycling. Residue can be made harmless by reacting with a mixture of isopropanol, ammonia and water. Reaction promoted by detergents and water-soluble solvent.

## Waste key

Disposal Code according to European Waste Catalog (EWC) please specify according to the use of product, e.g.: 080102 Waste from production, formulation, sales and application of paints and varnishes. Old paints and varnishes, not containing halogenated hydrocarbons.

Switzerland: Disposal code (VVS): 1620 Waste from paints, varnishes and adhesives with organic phase or solvent

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## 14. Transport information

### Land transport ADR/RID and GGVS/GGVE

Classification

### Maritime transport IMDG/GGVSea

Classification

### Air transport ICAO-TI and IATA-DGR

Classification

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## 15. Regulatory information

### Classification according to EEC directives

Danger symbol and danger designation



Xn ; Harmful

### R-phrases

42/43 May cause sensitization by inhalation and skin contact

20 Harmful by inhalation

36/37/38 Irritating to eyes, respiratory system and skin

### S-phrases

36/37 Wear suitable protective clothing and gloves

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45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer)

## Special designation for certain preparations

91 Contains isocyanates. See information provided by the manufacturer

## National regulatory information

Germany: Safety Instruction Code of German occupational safety and health organisation. Berufsgenossenschaften der Bauwirtschaft: GISCODE PU 40

### Regulation on inflammable liquids (VbF)

VbF-Class : Not dangerous according to VbF

### Water pollution classification

Class : 1 according KBwS

### Poisonous law (CH)

Giftklasse: 3 BAGT-Nr: 614463

### Other regulations

Observe UVV for handling of painting material (VBG 23). See also "recommendations for the handling of aromatic isocyanates". (BG-chemistry MO44).

Switzerland: Please refer to the guidelines of SUVA and EKAS. e.g.: "Guideline for preventing accidents when using two component resins" (SUVA 1854)

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## 16. Other information

### Processing instructions / technical data sheets

Coating material - use only according to the Technical Information of the product.

### Further information

The details in this material safety data sheet satisfy national and EU legislation. We have no knowledge or control over the user's working conditions however. The product may not be used for any purpose other than that specified in chapter 16 unless written consent has been obtained. The user is responsible for the observance of all required statutory provisions.

### Relevant changes

08. Components with critical values that require monitoring at the workplace (exposure limits) · 15. Special designation for certain preparations

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**APPROVED** :M BAXTER

**RELEASED** :M BAXTER

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These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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