



# NECURON<sup>®</sup> K2

## Safety Data Sheet

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### 1. Identification of the substance/preparation and of the company/undertaking

#### Product details

**Trade name:** NECURON<sup>®</sup> K2

**Manufacturer/Supplier:** NECUMER-PRODUCT GmbH  
Bruchheide 16  
49163 Bohmte  
Tel.: +49 (0) 5471-95020  
Fax: +49 (0) 5471-950299

### 2. Composition/information on ingredients

#### Chemical characterization

#### Dangerous components:

Cas-No.	Description	Index. R-phrases	%
CAS: 101-68-8	diphenylmethan-4-4-diisocyanate	Xn; R 20-36/37/38-42/43	25-50 %

### 3. Hazards identification

#### Hazard description

Xn Harmful

#### Information concerning particular hazards for human and environment:

R20 Harmful by inhalation.

R36/37/38 Irritating to eyes, respiratory system and skin.

R42/43 May cause sensitisation by inhalation and skin contact.

Contains isocyanates. See information supplied by the manufacturer.

### 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.



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**After skin contact:**

Treat effected skin with cotton wool or cellulose. Then wash and rinse thoroughly with water and a mild cleaning agent.

If skin irritation continues, consult a doctor.

**After eye contact:**

Rinse opened eye for several minutes under running water. Then consult a doctor.

**After swallowing:**

Do not induce vomiting; call for medical help immediately.

### 5. Fire-fighting measures

**Suitable extinguishing agents:**

Use fir extinguishing methods suitable to surrounding conditions.

**Special hazards caused by the substance, its products of combustion or resulting gases:**

In case of fire, the following can be released:

Isocyanates

Nitrogen oxides (NO<sub>x</sub>)

Traces:

Hydrogen cyanide (HCN)

**Protective equipment:**

Wear self-contained respiratory protective device.

### 6. Accidental release measures

**Person-related safety precautions:**

Use respiratory protective device against the effects of fumes /dust/aerosol.

**Measures for environmental protection:**

Prevent seepage into sewage system, work pits and cellars.

Do not allow to enter sewers/ surface or ground water.

**Measures for cleaning/collecting:**

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

Dispose contaminated material as waste according to item 13

Ensure adequate ventilation.



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### 7. Handling and storage

**Handling:**

**Information for safe handling:**

Ensure good ventilation/exhaustion at the workplace.

**Information about fire - and explosion protection:**

No special measures required.

**Storage:**

**Requirements to be met by storerooms and receptacles:**

Keep container tightly closed.

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:**

Keep container tightly sealed.

### 8. Exposure controls/personal protection

**Additional information about design of technical facilities:**

No further data; see item 7.

**Ingredients with limit values that require monitoring at the workplace:**

**CAS-No. Designation of material % Type Value Unit**

101-68-8 diphenylmethan-4-4-diisocyanate

TLV (MAK/ GERMANY) (INT) 0,05 mg/m<sup>3</sup>, 0,005 ppm

OEL (Japan) 0,05 mg/m<sup>3</sup>

MAK (Germany) 0,05 mg/m<sup>3</sup>, 0,005 ppm

DFG 29: Summe aus Dampf + Aerosolen

PEL (USA) Short-term value: C 0,2 mg/m<sup>3</sup>, C0,02 ppm

REL (USA) Short-term value: C 0,2\* mg/m<sup>3</sup>, C0,02\* ppm

Long-term value: 0,05 mg/m<sup>3</sup>, 0,005 ppm

\*10-min

TLV (USA) 0,051 mg/m<sup>3</sup>, 0,005 ppm

**Additional information:**

The lists valid during the making 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.

Avoid contact with the eyes and skin.



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### Respiratory protection:

Use suitable respiratory protective device only when aerosol or mist is formed.  
Filter A/P2

### Protection of hands:

Protective gloves

Material of gloves

Butyl rubber (0.5mm)

Fluorcarbon rubber (Viton) - FCM (0.4 mm)

Nitrile rubber - NBR (0.35 mm)

Natural rubber - NR (0.5 mm)

Chloroprene rubber - CR (0.5mm)

PVC gloves (0.5mm)

**Penetration time of glove material Value for permeation:** Level  $\geq$  8h

**Eye protection:** Tightly sealed goggles

## 9. Physical and chemical properties

### General Information

**Form:** Fluid  
**Colour:** Light yellow  
**Odour:** Weak, characteristic

### Change in condition

**Boiling point/Boiling range:** 208°C

**Flash point:** 212°C

**Ignition Temperature:** 520°C

**Danger of explosion:** Product does not present an explosion hazard.

**Vapour pressure at 20°C:** <0,00001 hPa

**Density at 20°C:** 1.13 g/cm<sup>3</sup>

**Solubility in / Miscibility with water:** Insoluble.

**Viscosity: Dynamic at 20°C:** 3000 mPas

## 10. Stability and reactivity

### Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

### Dangerous reactions

No dangerous reactions known.

### Dangerous decomposition products:

No dangerous decomposition products known.



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### 11. Toxicological information

**Acute toxicity:**

**LD/LC50 values relevant for classification:**

101-68-8 Diphenylmethan-4-4-diisocyanat

Oral LD50 15000 mg/kg (rat)

**Primary irritant effect:**

**on the skin:** Irritant to skin and mucous membranes.

**on the eye:** Irritating effect.

**Sensitization:** Sensitization possible through skin contact.

Sensitization possible through inhalation.

### 12. Ecological information

**General notes:**

Must not reach sewage water or drainage ditch undiluted or unneutralized

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

### 13. Disposal considerations

**Recommendation**

Must be specially treated adhering to official regulations.

Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

**European waste catalogue**

08 04 09 waste adhesives and sealants containing organic solvents or other dangerous substances

08 05 01 waste isocyanates

**Uncleaned packaging:**

**Recommendation:**

Empty contaminated packaging thoroughly.

They may be recycled after thorough and proper cleaning.

### 14. Transport information

not applicable



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**Land transport ADR/RID (cross-border)**

**ADR/RID class:** -

**Maritime transport IMDG:**

**Maritime pollutant:** No

### XV. Regulatory information

**Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives/ Ordinance on Hazardous Materials.

**Code letter and hazard designation of product:**

Xn Harmful

**Hazard-determining components of labelling:**

diphenylmethan-4-4-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.

**Safety phrases:**

2 Keep out of the reach of children.

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

36/37 Wear suitable protective clothing and gloves

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

**Special labelling of certain preparations:**

Contains isocyanates. See information supplied by the manufacturer.

**National regulations:**

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

### 16. Other information

This 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.

**Relevant R-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.

**Contact:**

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