

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 14 Apr 2023

Print date: 14 Apr 2023

Version: 2.5



## PUR-O-CRACK PLUS B-Komponente

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Trade name/designation:

**PUR-O-CRACK PLUS B-Komponente**

UFI:

U1SU-9J07-TWK1-XNNV

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

No data available

#### 1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

**TPH Bausysteme GmbH**

Nordportbogen 8  
22848 Norderstedt  
Germany

**Telephone:** +49 40 52 90 66 78-0

**Telefax:** +49 40 52 90 66 78-78

**E-mail:** info@tph-bausysteme.com

**Website:** www.tph-bausysteme.com

**E-mail (competent person):** sdb-info@tph-bausysteme.com

#### 1.4. Emergency telephone number

24h: International access phone number: +1-813-248-0585 /// United States, Canada, Puerto Rico, U.S. Virgin Islands: 1-800-255-3924 (Contract No. MIS7249185) /// Australia: 1-300-954-583 /// Brazil: 0-800-591-6042 /// China: 400-120-0751 /// India: 000-800-100-4086 /// Mexico: 800-099-0731

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation ( <i>Skin Irrit. 2</i> )	H315: Causes skin irritation.	Calculation method.
Respiratory or skin sensitisation ( <i>Skin Sens. 1</i> )	H317: May cause an allergic skin reaction.	Calculation method.
Serious eye damage/eye irritation ( <i>Eye Irrit. 2</i> )	H319: Causes serious eye irritation.	Calculation method.
Acute toxicity (inhalative) ( <i>Acute Tox. 4</i> )	H332: Harmful if inhaled.	Calculation method.
Respiratory or skin sensitisation ( <i>Resp. Sens. 1</i> )	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.	Calculation method.
STOT-single exposure ( <i>STOT SE 3</i> )	H335: May cause respiratory irritation.	Calculation method.
Carcinogenicity ( <i>Carc. 2</i> )	H351: Suspected of causing cancer.	Calculation method.
STOT-repeated exposure ( <i>STOT RE 2</i> )	H373: May cause damage to organs through prolonged or repeated exposure.	Calculation method.

#### Additional information:

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

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**TPH.**  
waterproofing systems

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### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



**GHS07**

Exclamation mark



**GHS08**

Health hazard

**Signal word:** Danger

**Hazard components for labelling:**

Diphenylmethandiisocyanat, Isomere und Homologe; methylenediphenyl diisocyanate; Reaction mass of 4,4'-methylenediphenyldiisocyanate and o-(isocyanatobenzyl)phenylisocyanate; Benzene, 1,1'-methylenebis[isocyanato polymer and polypropylene glycol

#### Hazard statements for health hazards

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

#### Supplemental hazard information

EUH208	Contains 4,4'-methylenediphenyl diisocyanate, Diphenylmethandiisocyanat, Isomere und Homologe, methylenediphenyl diisocyanate, o-(p-isocyanatobenzyl)phenyl isocyanate, Reaction mass of 4,4'-methylenediphenyldiisocyanate and o-(isocyanatobenzyl)phenylisocyanate, Benzene, 1,1'-methylenebis[isocyanato polymer and polypropylene glycol, 4,4'-methylenediphenyl diisocyanate. May produce an allergic reaction.
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#### Precautionary statements Prevention

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

#### Precautionary statements Response

P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314	Get medical advice/attention if you feel unwell.

**Special rules for supplemental label elements for certain mixtures:**

11,9 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (oral).  
11,9 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (dermal).  
33,2 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (inhalative).  
15,3 % percent of the mixture consists of components of unknown hazards to the aquatic environment.

### 2.3. Other hazards

No data available

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### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 9016-87-9	<b>Diphenylmethandiisocyanat, Isomere und Homologe</b> Acute Tox. 4 (H332), Carc. 2 (H351), Eye Irrit. 2 (H319), Resp. Sens. 1 (H334), STOT RE 2 (H373), STOT SE 3 (H335), Skin Irrit. 2 (H315), Skin Sens. 1 (H317) 	≥ 25 - ≤ 50 weight-%
CAS No.: 108-32-7 EC No.: 203-572-1 Index No.: 607-194-00-1 REACH No.: 01-2119537232-48-XXXX	<b>propylene carbonate</b> Eye Irrit. 2 (H319) 	≥ 10 - ≤ 25 weight-%
CAS No.: 39420-98-9 EC No.: 643-036-8	<b>Benzene, 1,1'-methylenebis[isocyanato polymer and polypropylene glycol]</b> Resp. Sens. 1 (H334), Skin Sens. 1 (H317) 	≥ 10 - ≤ 20 weight-%
CAS No.: 26447-40-5 EC No.: 247-714-0 Index No.: 615-005-00-9 REACH No.: 01-2119457015-45-0001	<b>methylenediphenyl diisocyanate</b> Acute Tox. 4 (H332), Carc. 2 (H351), Eye Irrit. 2 (H319), Resp. Sens. 1 (H334), STOT RE 2 (H373**), STOT SE 3 (H335), Skin Irrit. 2 (H315), Skin Sens. 1 (H317)  <b>Specific concentration limit (SCL)</b> Eye Irrit. 2; H319: C ≥ 5% Skin Irrit. 2; H315: C ≥ 5% Resp. Sens. 1; H334: C ≥ 0.1% STOT SE 3; H335: C ≥ 5%	≥ 5 - ≤ 10 weight-%
REACH No.: 01-2119457015-45-XXXX	<b>Reaction mass of 4,4'-methylenediphenyldiisocyanate and o-(isocyanatobenzyl)phenylisocyanate</b> Acute Tox. 4 (H332), Carc. 2 (H351), Eye Irrit. 2 (H319), Resp. Sens. 1 (H334), STOT RE 2 (H373), STOT SE 3 (H335), Skin Irrit. 2 (H315), Skin Sens. 1 (H317) 	3 - ≤ 5.5 weight-%

Full text of H- and EUH-phrases: see section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended. Warning First aider: Pay attention to self-protection!

##### Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician. Get medical advice/attention. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Get immediate medical advice/attention. Get medical advice/attention if you feel unwell.

##### In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention. Take off immediately all contaminated clothing.

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### After eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

### Following ingestion:

Rinse mouth. Let water be drunk in little sips (dilution effect). Get medical advice/attention if you feel unwell.

### Self-protection of the first aider:

Use personal protection equipment. No direct artificial respiration to be given by first aider. First aider: Pay attention to self-protection!

### 4.2. Most important symptoms and effects, both acute and delayed

Skin corrosion/irritation Allergic reactions Serious eye damage/eye irritation Asthmatic complaints Respiratory complaints Irritation to respiratory tract

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media:

Foam Extinguishing powder Carbon dioxide (CO<sub>2</sub>)

#### Unsuitable extinguishing media:

Water

### 5.2. Special hazards arising from the substance or mixture

#### Hazardous combustion products:

In case of fire: Gases/vapours, toxic Nitrogen oxides (NO<sub>x</sub>) Carbon monoxide Carbon dioxide (CO<sub>2</sub>) Hydrogen cyanide (hydrocyanic acid)

### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

### 5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

##### Personal precautions:

Remove persons to safety.

##### Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection.

#### 6.1.2. For emergency responders

##### Personal protection equipment:

Personal protection equipment: see section 8

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

### 6.3. Methods and material for containment and cleaning up

#### For containment:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

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### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

### 6.5. Additional information

Use appropriate container to avoid environmental contamination.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Protective measures

#### Advices on safe handling:

Wear personal protection equipment (refer to section 8).

#### Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

#### Requirements for storage rooms and vessels:

Keep/Store only in original container.

#### Hints on storage assembly:

Protect from moisture.

#### Further information on storage conditions:

Conditions to avoid: UV-radiation/sunlight Heat Frost

### 7.3. Specific end use(s)

No data available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
Québec (CA)	<b>Diphenylmethandiisocyanat, Isomere und Homologe</b> CAS No.: 9016-87-9	① 0.005 ppm (0.051 mg/m <sup>3</sup> ) ⑤ (4,4'-Methylenediphenyl diisocyanate - CAS 101-68-8)
NIOSH (US)	<b>Diphenylmethandiisocyanat, Isomere und Homologe</b> CAS No.: 9016-87-9	① 0.005 ppm (0.05 mg/m <sup>3</sup> ) ③ 0.02 ppm (0.2 mg/m <sup>3</sup> ) ⑤ (4,4'-Methylenediphenyl diisocyanate - CAS 101-68-8)
Alberta (CA)	<b>Diphenylmethandiisocyanat, Isomere und Homologe</b> CAS No.: 9016-87-9	① 0.005 ppm (0.07 mg/m <sup>3</sup> )
SI from 4 Dec 2018	<b>Diphenylmethandiisocyanat, Isomere und Homologe</b> CAS No.: 9016-87-9	① 0.05 mg/m <sup>3</sup> ② 0.05 mg/m <sup>3</sup> ⑤ (als MDI berechnet), (frakcija ki jo je mogoče vdihniti, računati je treba z možnostjo prodiranja skozi kožo) K, Y

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TRGS 900 (DE)	<b>Diphenylmethandiisocyanat, Isomere und Homologe</b> CAS No.: 9016-87-9	① 0.05 mg/m <sup>3</sup> ② 0.05 mg/m <sup>3</sup> ③ 0.1 mg/m <sup>3</sup> ⑤ (als MDI berechnet), (einatembare Fraktion), kann über die Haut aufgenommen werden DFG, H, Sah, Y, 12
LT	<b>propylene carbonate</b> CAS No.: 108-32-7 EC No.: 203-572-1	① 7 mg/m <sup>3</sup> ⑤
LV	<b>propylene carbonate</b> CAS No.: 108-32-7 EC No.: 203-572-1	① 2 mg/m <sup>3</sup>
RU	<b>propylene carbonate</b> CAS No.: 108-32-7 EC No.: 203-572-1	③ 7 mg/m <sup>3</sup>
TRGS 900 (DE) from 29 Mar 2019	<b>propylene carbonate</b> CAS No.: 108-32-7 EC No.: 203-572-1	① 2 ppm (8.5 mg/m <sup>3</sup> ) ② 2 ppm (8.5 mg/m <sup>3</sup> ) ⑤ (Aerosol und Dampf) DFG, Y, 11
CH from 1 Jan 2022	<b>propylene carbonate</b> CAS No.: 108-32-7 EC No.: 203-572-1	① 6 ppm (25.5 mg/m <sup>3</sup> ) ② 6 ppm (25.5 mg/m <sup>3</sup> ) ⑤ SSC; Tox: Auge
PL	<b>methylenediphenyl diisocyanate</b> CAS No.: 26447-40-5 EC No.: 247-714-0	① 0.03 mg/m <sup>3</sup> ② 0.09 mg/m <sup>3</sup>
BE from 21 Feb 2020	<b>4,4'-methylenediphenyl diisocyanate</b> CAS No.: 101-68-8 EC No.: 202-966-0	① 0.005 ppm (0.052 mg/m <sup>3</sup> ) ⑤ (MDI)
CZ from 1 Mar 2020	<b>4,4'-methylenediphenyl diisocyanate</b> CAS No.: 101-68-8 EC No.: 202-966-0	① 0.05 mg/m <sup>3</sup> ② 0.1 mg/m <sup>3</sup> ⑤ I, S
PL from 1 Oct 2005	<b>4,4'-methylenediphenyl diisocyanate</b> CAS No.: 101-68-8 EC No.: 202-966-0	① 0.03 mg/m <sup>3</sup> ② 0.09 mg/m <sup>3</sup>
NO from 1 Jul 2021	<b>4,4'-methylenediphenyl diisocyanate</b> CAS No.: 101-68-8 EC No.: 202-966-0	① 0.005 ppm (0.05 mg/m <sup>3</sup> ) ② 0.01 ppm ⑤ A4
IE from 21 Aug 2018	<b>4,4'-methylenediphenyl diisocyanate</b> CAS No.: 101-68-8 EC No.: 202-966-0	① 0.005 ppm ⑤ Sens
TRGS 900 (DE)	<b>4,4'-methylenediphenyl diisocyanate</b> CAS No.: 101-68-8 EC No.: 202-966-0	① 0.05 mg/m <sup>3</sup> ② 0.05 mg/m <sup>3</sup> ③ 0.1 mg/m <sup>3</sup> ⑤ (Aerosol und Dampf, einatembare Fraktion, kann über die Haut aufgenommen werden) DFG, 11, 12, H, Sah, Y

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LT	<b>4,4'-methylenediphenyl diisocyanate</b> CAS No.: 101-68-8 EC No.: 202-966-0	① 0.005 ppm (0.05 mg/m <sup>3</sup> ) ③ 0.01 ppm (0.1 mg/m <sup>3</sup> ) ⑤ Nustatytas 5 min. poveikio trukmes NRD. Tas pats RD, išreikštas ppm, taikomas izocianatams, kuriu RD nenustatytas. Ši nuostata taikoma ir dulkiu ar lašeliu (aerozoliu) pavidalo izocianatams, iskaitant prepolymerizuotus izocianatus (aduktus). Skirtingu medžiagu RD, išreikšti mg/m <sup>3</sup> , yra skirtingi. J
SE from 21 Aug 2018	<b>4,4'-methylenediphenyl diisocyanate</b> CAS No.: 101-68-8 EC No.: 202-966-0	① 0.002 ppm (0.03 mg/m <sup>3</sup> ) ② 0.005 ppm (0.05 mg/m <sup>3</sup> )
NPEL (SK) from 23 Nov 2011	<b>4,4'-methylenediphenyl diisocyanate</b> CAS No.: 101-68-8 EC No.: 202-966-0	① 0.002 ppm (0.03 mg/m <sup>3</sup> ) ⑤ S
MAK (AT)	<b>4,4'-methylenediphenyl diisocyanate</b> CAS No.: 101-68-8 EC No.: 202-966-0	① 0.005 ppm (0.05 mg/m <sup>3</sup> ) ⑤ III B, Sah
MAK (AT)	<b>4,4'-methylenediphenyl diisocyanate</b> CAS No.: 101-68-8 EC No.: 202-966-0	② 0.01 ppm (0.1 mg/m <sup>3</sup> ) ⑤ (max. 8x5 min./Schicht, Momentanwert) III B, Sah
DK	<b>4,4'-methylenediphenyl diisocyanate</b> CAS No.: 101-68-8 EC No.: 202-966-0	① 0.005 ppm (0.05 mg/m <sup>3</sup> ) ② 0.01 ppm (0.1 mg/m <sup>3</sup> ) ⑤ K
MY from 1 Jan 2000	<b>4,4'-methylenediphenyl diisocyanate</b> CAS No.: 101-68-8 EC No.: 202-966-0	① 0.005 ppm (0.051 mg/m <sup>3</sup> )
EE from 17 Jan 2020	<b>4,4'-methylenediphenyl diisocyanate</b> CAS No.: 101-68-8 EC No.: 202-966-0	① 0.005 ppm (0.05 mg/m <sup>3</sup> ) ② 0.01 ppm (0.1 mg/m <sup>3</sup> ) ⑤ (Lühiajalise kokkupuute piinorm, arvatatud 5-min kokkupuuteajale.) S
Alberta (CA)	<b>4,4'-methylenediphenyl diisocyanate</b> CAS No.: 101-68-8 EC No.: 202-966-0	① 0.005 ppm (0.05 mg/m <sup>3</sup> )
BC (CA)	<b>4,4'-methylenediphenyl diisocyanate</b> CAS No.: 101-68-8 EC No.: 202-966-0	① 0.005 ppm ③ 0.01 ppm ⑤ S(R)
ES	<b>4,4'-methylenediphenyl diisocyanate</b> CAS No.: 101-68-8 EC No.: 202-966-0	① 0.005 ppm (0.052 mg/m <sup>3</sup> ) ⑤ Sen, r
Ontario (CA) from 30 Mar 2022	<b>4,4'-methylenediphenyl diisocyanate</b> CAS No.: 101-68-8 EC No.: 202-966-0	① 0.005 ppm ③ 0.02 ppm ⑤ designated Substance Reg.490/ 09
JP	<b>4,4'-methylenediphenyl diisocyanate</b> CAS No.: 101-68-8 EC No.: 202-966-0	① 0.05 mg/m <sup>3</sup>
MX from 28 Apr 2014	<b>4,4'-methylenediphenyl diisocyanate</b> CAS No.: 101-68-8 EC No.: 202-966-0	① 0.005 ppm (0.051 mg/m <sup>3</sup> )
VLA (FR) from 3 May 2021	<b>4,4'-methylenediphenyl diisocyanate</b> CAS No.: 101-68-8 EC No.: 202-966-0	① 0.01 ppm (0.1 mg/m <sup>3</sup> ) ② 0.02 ppm (0.2 mg/m <sup>3</sup> )

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TW	<b>4,4'-methylenediphenyl diisocyanate</b> CAS No.: 101-68-8 EC No.: 202-966-0	③ 0.02 ppm (0.2 mg/m <sup>3</sup> )
KR	<b>4,4'-methylenediphenyl diisocyanate</b> CAS No.: 101-68-8 EC No.: 202-966-0	① 0.005 ppm (0.055 mg/m <sup>3</sup> )
IS	<b>4,4'-methylenediphenyl diisocyanate</b> CAS No.: 101-68-8 EC No.: 202-966-0	① 0.005 ppm (0.05 mg/m <sup>3</sup> ) ② 0.01 ppm (0.1 mg/m <sup>3</sup> ) ⑤ 0
CN from 1 Jan 2007	<b>4,4'-methylenediphenyl diisocyanate</b> CAS No.: 101-68-8 EC No.: 202-966-0	① 0.05 mg/m <sup>3</sup> ② 0.1 mg/m <sup>3</sup>
RU	<b>4,4'-methylenediphenyl diisocyanate</b> CAS No.: 101-68-8 EC No.: 202-966-0	③ 0.5 mg/m <sup>3</sup> ⑤ A
HU from 28 May 2022	<b>4,4'-methylenediphenyl diisocyanate</b> CAS No.: 101-68-8 EC No.: 202-966-0	① 0.05 mg/m <sup>3</sup> ② 0.05 mg/m <sup>3</sup> ⑤ (felvehető a bőrön keresztül) i, sz, BEM
GR from 1 Oct 2016	<b>4,4'-methylenediphenyl diisocyanate</b> CAS No.: 101-68-8 EC No.: 202-966-0	① 0.02 ppm (0.2 mg/m <sup>3</sup> ) ② 0.02 ppm (0.2 mg/m <sup>3</sup> )
SI from 4 Dec 2018	<b>4,4'-methylenediphenyl diisocyanate</b> CAS No.: 101-68-8 EC No.: 202-966-0	① 0.005 mg/m <sup>3</sup> ② 0.005 mg/m <sup>3</sup> ⑤ (računati je treba z možnostjo prodiranja skozi kožo frakcija ki jo je mogoče vdihniti) K, Y
SI from 4 Dec 2018	<b>4,4'-methylenediphenyl diisocyanate</b> CAS No.: 101-68-8 EC No.: 202-966-0	① 0.005 ppm ② 0.005 ppm ⑤ (računati je treba z možnostjo prodiranja skozi kožo) K, Y
RO from 21 Aug 2018	<b>4,4'-methylenediphenyl diisocyanate</b> CAS No.: 101-68-8 EC No.: 202-966-0	② 0.15 mg/m <sup>3</sup> ⑤ C2
OSHA (US)	<b>4,4'-methylenediphenyl diisocyanate</b> CAS No.: 101-68-8 EC No.: 202-966-0	③ 0.02 ppm (0.2 mg/m <sup>3</sup> )
NIOSH (US)	<b>4,4'-methylenediphenyl diisocyanate</b> CAS No.: 101-68-8 EC No.: 202-966-0	① 0.005 ppm (0.05 mg/m <sup>3</sup> ) ③ 0.02 ppm (0.2 mg/m <sup>3</sup> )
ACGIH (US) from 1 Jan 2015	<b>4,4'-methylenediphenyl diisocyanate</b> CAS No.: 101-68-8 EC No.: 202-966-0	① 0.005 ppm
Québec (CA) from 1 Mar 2012	<b>4,4'-methylenediphenyl diisocyanate</b> CAS No.: 101-68-8 EC No.: 202-966-0	① 0.005 ppm (0.051 mg/m <sup>3</sup> )
TRGS 900 (DE)	<b>o-(p-isocyanatobenzyl)phenyl isocyanate</b> CAS No.: 5873-54-1 EC No.: 227-534-9	① 0.05 mg/m <sup>3</sup> ② 0.05 mg/m <sup>3</sup> ③ 0.1 mg/m <sup>3</sup> ⑤ (Aerosol und Dampf) AGS, 11, 12



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PL	<b>o-(p-isocyanatobenzyl)phenyl isocyanate</b> CAS No.: 5873-54-1 EC No.: 227-534-9	① 0.03 mg/m <sup>3</sup> ② 0.09 mg/m <sup>3</sup>
MAK (AT)	<b>o-(p-isocyanatobenzyl)phenyl isocyanate</b> CAS No.: 5873-54-1 EC No.: 227-534-9	① 0.005 ppm (0.05 mg/m <sup>3</sup> ) ⑤ III B, Sah
MAK (AT)	<b>o-(p-isocyanatobenzyl)phenyl isocyanate</b> CAS No.: 5873-54-1 EC No.: 227-534-9	② 0.01 ppm (0.1 mg/m <sup>3</sup> ) ⑤ (max. 8x5 min./Schicht, Momentanwert) III B, Sah
SI from 4 Dec 2018	<b>o-(p-isocyanatobenzyl)phenyl isocyanate</b> CAS No.: 5873-54-1 EC No.: 227-534-9	① 0.05 mg/m <sup>3</sup> ② 0.05 mg/m <sup>3</sup>

### 8.1.2. Biological limit values

Limit value type (country of origin)	Substance name	Limit value	① Parameter ② Test material ③ Time of sampling: ④ Remark
BAT (CH)	<b>4,4'-methylenediphenyl diisocyanate</b> CAS No.: 101-68-8 EC No.: 202-966-0	10 µg/g Creatinin	① 4,4'-Diaminodiphenylmethan ② Urin ③ Expositionsende bzw. Schichtende

### 8.1.3. DNEL-/PNEC-values

No data available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

No data available

### 8.2.2. Personal protection equipment

#### Eye/face protection:

Eye glasses with side protection EN 166

#### Skin protection:

Tested protective gloves must be worn EN ISO 374 Breakthrough times and swelling properties of the material must be taken into consideration. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

#### Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

### 8.2.3. Environmental exposure controls

No data available

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

**Physical state:** Liquid

**Colour:** dark brown

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**Odour:** earthy

### Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	<i>not determined</i>		
Melting point	<i>not determined</i>		
Freezing point	<i>not determined</i>		
Initial boiling point and boiling range	<i>not determined</i>		
Decomposition temperature	<i>not determined</i>		
Flash point	<i>not determined</i>		
Evaporation rate	<i>not determined</i>		
Auto-ignition temperature	<i>not determined</i>		
Upper/lower flammability or explosive limits	<i>not determined</i>		
Vapour pressure	<i>not determined</i>		
Vapour density	<i>not determined</i>		
Density	≈ 1.21 g/cm <sup>3</sup>	23 °C	① EN ISO 2811-1
Relative density	<i>not determined</i>		
Bulk density	<i>not determined</i>		
Water solubility	<i>not determined</i>		
Partition coefficient: n-octanol/water	<i>not determined</i>		
Dynamic viscosity	<i>not determined</i>		
Kinematic viscosity	<i>not determined</i>		

### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available

### 10.2. Chemical stability

No data available

### 10.3. Possibility of hazardous reactions

No data available

### 10.4. Conditions to avoid

No data available

### 10.5. Incompatible materials

Acid Water Alcohols Alkali (Iye) Amines

### 10.6. Hazardous decomposition products

No data available

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

<b>Diphenylmethandiisocyanat, Isomere und Homologe</b> CAS No.: 9016-87-9
<b>LD<sub>50</sub> oral:</b> >10,000 mg/kg (Rat) OECD 401
<b>LD<sub>50</sub> dermal:</b> >9,400 mg/kg (Rabbit) OECD 402
<b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> 0.493 mg/L 4 h (Rat)

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<b>propylene carbonate</b> CAS No.: 108-32-7 EC No.: 203-572-1
<b>LD<sub>50</sub> oral:</b> 33,520 mg/kg (Rat)
<b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Rabbit)
<b>methylenediphenyl diisocyanate</b> CAS No.: 26447-40-5 EC No.: 247-714-0
<b>LD<sub>50</sub> oral:</b> 1,815 mg/kg (Rat) OECD 401
<b>LD<sub>50</sub> dermal:</b> >6,000 mg/kg (Rat)
<b>Reaction mass of 4,4'-methylenediphenyldiisocyanate and o-(isocyanatobenzyl)phenylisocyanate</b>
<b>LD<sub>50</sub> oral:</b> >2,000 mg/kg (Rat)
<b>LD<sub>50</sub> dermal:</b> >9,400 mg/kg (Rabbit)
<b>4,4'-methylenediphenyl diisocyanate</b> CAS No.: 101-68-8 EC No.: 202-966-0
<b>LD<sub>50</sub> oral:</b> >10,000 mg/kg (Rat)
<b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> 2.24 mg/L 1 h (Rat)
<b>o-(p-isocyanatobenzyl)phenyl isocyanate</b> CAS No.: 5873-54-1 EC No.: 227-534-9
<b>LD<sub>50</sub> oral:</b> >2,000 mg/kg (Rat)
<b>LD<sub>50</sub> dermal:</b> 9,400 mg/kg (Rabbit)
<b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> 0.387 mg/L 4 h (Rat)

### Acute oral toxicity:

Based on available data, the classification criteria are not met.

### Acute dermal toxicity:

Based on available data, the classification criteria are not met.

### Acute inhalation toxicity:

Harmful if inhaled.

### Skin corrosion/irritation:

Causes skin irritation.

### Serious eye damage/irritation:

Causes serious eye irritation.

### Respiratory or skin sensitisation:

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Contains 4,4'-methylenediphenyl diisocyanate, Diphenylmethandiisocyanat, Isomere und Homologe, methylenediphenyl diisocyanate, o-(p-isocyanatobenzyl)phenyl isocyanate, Reaction mass of 4,4'-methylenediphenyldiisocyanate and o-(isocyanatobenzyl)phenylisocyanate, Benzene, 1,1'-methylenebis[isocyanato polymer and polypropylene glycol, 4,4'-methylenediphenyl diisocyanate. May produce an allergic reaction.

### Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

### Carcinogenicity:

Suspected of causing cancer.

### Reproductive toxicity:

Based on available data, the classification criteria are not met.

### STOT-single exposure:

May cause respiratory irritation.

### STOT-repeated exposure:

May cause damage to organs through prolonged or repeated exposure.

### Aspiration hazard:

Based on available data, the classification criteria are not met.

### Additional information:

No data available

### 11.2. Information on other hazards

No data available

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### SECTION 12: Ecological information

#### 12.1. Toxicity

<b>Diphenylmethandiisocyanat, Isomere und Homologe</b> CAS No.: 9016-87-9
<b>LC<sub>50</sub>:</b> >1,000 mg/L 4 d (fish, Danio rerio (zebrafish)) OECD 203
<b>EC<sub>50</sub>:</b> >1,000 mg/L (Daphnia magna (Big water flea)) OECD 202 24h
<b>EC<sub>50</sub>:</b> >1,640 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus) OECD 201
<b>EC<sub>50</sub>:</b> >100 mg/L (Activated sludge) OECD 209 3h
<b>propylene carbonate</b> CAS No.: 108-32-7 EC No.: 203-572-1
<b>LC<sub>50</sub>:</b> >1,000 mg/L 4 d (fish, Cyprinus carpio (Common Carp))
<b>EC<sub>50</sub>:</b> >1,000 mg/L 2 d (Daphnia magna (Big water flea)) OECD 202
<b>EC<sub>50</sub>:</b> 25,619 mg/L (Pseudomonas putida) DIN 38 412 Part 8, 16h
<b>methylenediphenyl diisocyanate</b> CAS No.: 26447-40-5 EC No.: 247-714-0
<b>LC<sub>50</sub>:</b> >100 mg/L 4 d (fish)
<b>EC<sub>50</sub>:</b> >1,000 mg/L 2 d (Daphnia magna (Big water flea))
<b>NOEC:</b> >100 mg/L 21 d (Daphnia magna (Big water flea))
<b>ErC<sub>50</sub>:</b> >1,000 mg/L 3 d (Algae/water plant)
<b>Reaction mass of 4,4'-methylenediphenyldiisocyanate and o-(isocyanatobenzyl)phenylisocyanate</b>
<b>LC<sub>50</sub>:</b> >1,000 mg/L 4 d (fish, Danio rerio (zebrafish)) OECD 203
<b>EC<sub>50</sub>:</b> >1,000 mg/L (Daphnia magna (Big water flea)) OECD 202 24h
<b>EC<sub>50</sub>:</b> >1,640 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus) OECD 201
<b>EC<sub>50</sub>:</b> >100 mg/L (Activated sludge) OECD 209 3h
<b>EC<sub>50</sub>:</b> >1,000 mg/L (Eisenia fetida) OECD 207 336h
<b>4,4'-methylenediphenyl diisocyanate</b> CAS No.: 101-68-8 EC No.: 202-966-0
<b>LC<sub>50</sub>:</b> >1,000 mg/L 4 d (fish, Danio rerio (zebrafish)) OECD 203
<b>EC<sub>50</sub>:</b> >1,000 mg/L (Daphnia magna (Big water flea)) OECD 202 ; 24h
<b>EC<sub>50</sub>:</b> >100 mg/L (Activated sludge) 3h
<b>EC<sub>50</sub>:</b> >1,000 mg/L (Eisenia fetida) 14d

#### 12.2. Persistence and degradability

<b>propylene carbonate</b> CAS No.: 108-32-7 EC No.: 203-572-1
<b>Biodegradation:</b> Yes, rapidly

#### 12.3. Bioaccumulative potential

<b>Diphenylmethandiisocyanat, Isomere und Homologe</b> CAS No.: 9016-87-9
<b>Bioconcentration factor (BCF):</b> 200
<b>propylene carbonate</b> CAS No.: 108-32-7 EC No.: 203-572-1
<b>Log K<sub>OW</sub>:</b> -0.5
<b>methylenediphenyl diisocyanate</b> CAS No.: 26447-40-5 EC No.: 247-714-0
<b>Bioconcentration factor (BCF):</b> 0.45
<b>Reaction mass of 4,4'-methylenediphenyldiisocyanate and o-(isocyanatobenzyl)phenylisocyanate</b>
<b>Bioconcentration factor (BCF):</b> 200 Species: Cyprinus carpio (Common Carp)
<b>4,4'-methylenediphenyl diisocyanate</b> CAS No.: 101-68-8 EC No.: 202-966-0
<b>Log K<sub>OW</sub>:</b> 4.51
<b>Bioconcentration factor (BCF):</b> 92 Species: Cyprinus carpio (Common Carp)

#### 12.4. Mobility in soil

No data available

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### 12.5. Results of PBT and vPvB assessment

<b>Diphenylmethandiisocyanat, Isomere und Homologe</b> CAS No.: 9016-87-9
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
<b>propylene carbonate</b> CAS No.: 108-32-7 EC No.: 203-572-1
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
<b>Benzene, 1,1'-methylenebis[isocyanato polymer and polypropylene glycol</b> CAS No.: 39420-98-9 EC No.: 643-036-8
<b>Results of PBT and vPvB assessment:</b> —
<b>methylenediphenyl diisocyanate</b> CAS No.: 26447-40-5 EC No.: 247-714-0
<b>Results of PBT and vPvB assessment:</b> —
<b>Reaction mass of 4,4'-methylenediphenyldiisocyanate and o-(isocyanatobenzyl)phenylisocyanate</b>
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
<b>4,4'-methylenediphenyl diisocyanate</b> CAS No.: 101-68-8 EC No.: 202-966-0
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
<b>o-(p-isocyanatobenzyl)phenyl isocyanate</b> CAS No.: 5873-54-1 EC No.: 227-534-9
<b>Results of PBT and vPvB assessment:</b> —

### 12.6. Endocrine disrupting properties

No data available

### 12.7. Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### 13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

#### Waste code product

08 05 01 *	Waste isocyanates
16 03 05 *	organic wastes containing hazardous substances

\*: Evidence for disposal must be provided.

#### Waste treatment options

#### Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

## SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1. UN number or ID number</b>			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
<b>14.2. UN proper shipping name</b>			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
<b>14.3. Transport hazard class(es)</b>			
not relevant	not relevant	not relevant	not relevant
<b>14.4. Packing group</b>			
not relevant	not relevant	not relevant	not relevant
<b>14.5. Environmental hazards</b>			
not relevant	not relevant	not relevant	not relevant

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.6. Special precautions for user</b>			
not relevant	not relevant	not relevant	not relevant

### 14.7. Maritime transport in bulk according to IMO instruments

No data available

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU legislation

##### Restrictions on use:

As from 24 August 2023 adequate training is required before industrial or professional use.

#### 15.1.2. National regulations

##### [DE] National regulations

##### Water hazard class

###### WGK:

1 - schwach wassergefährdend

##### Other regulations, restrictions and prohibition regulations

Arbeitsmedizinische Grundsätze G27: "Isocyanate"

ZH 1/34 "Merkblatt: Polyurethan-Herstellung/Isocyanate (M 044)"

##### [DK] National regulations

##### Other regulations, restrictions and prohibition regulations

MAL-Code (Denmark): 00-3

MAL-Code (Denmark): 00-3 (Ready-to-use mixture)

### 15.2. Chemical Safety Assessment

No data available

## SECTION 16: Other information

### 16.1. Indication of changes

No data available

### 16.2. Abbreviations and acronyms

No data available

### 16.3. Key literature references and sources for data

No data available

### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation ( <i>Skin Irrit. 2</i> )	H315: Causes skin irritation.	Calculation method.
Respiratory or skin sensitisation ( <i>Skin Sens. 1</i> )	H317: May cause an allergic skin reaction.	Calculation method.
Serious eye damage/eye irritation ( <i>Eye Irrit. 2</i> )	H319: Causes serious eye irritation.	Calculation method.
Acute toxicity (inhalative) ( <i>Acute Tox. 4</i> )	H332: Harmful if inhaled.	Calculation method.
Respiratory or skin sensitisation ( <i>Resp. Sens. 1</i> )	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.	Calculation method.
STOT-single exposure ( <i>STOT SE 3</i> )	H335: May cause respiratory irritation.	Calculation method.

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Hazard classes and hazard categories	Hazard statements	Classification procedure
Carcinogenicity ( <i>Carc. 2</i> )	H351: Suspected of causing cancer.	Calculation method.
STOT-repeated exposure ( <i>STOT RE 2</i> )	H373: May cause damage to organs through prolonged or repeated exposure.	Calculation method.

### 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

### 16.6. Training advice

No data available

### 16.7. Additional information

No data available