

SAFETY DATA SHEET

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

Revision date: 2 Nov 2022

Print date: 2 Nov 2022

Version: 1



SOLID SEAL TX-F B-Komponente

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

1.1. Product identifier

Trade name/designation:

SOLID SEAL TX-F B-Komponente

UFI:

JPPD-MJQJ-DS6F-D5Q6

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.

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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:

4,4'-methylenediphenyl diisocyanate; Diphenylmethandiisocyanat, Isomere und Homologe; o-(p-isocyanatobenzyl)phenyl isocyanate

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: none

Precautionary statements Prevention

P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing and eye/face protection.
P284	[In case of inadequate ventilation] wear respiratory protection.

Precautionary statements Response

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.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.

Precautionary statements Storage

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
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Precautionary statements Disposal

P501	Dispose of contents/container to an appropriate recycling or disposal facility.
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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.: 101-68-8 EC No.: 202-966-0 Index No.: 615-005-00-9 REACH No.: 01-2119457014-47-XXXX	4,4'-methylenediphenyl diisocyanate 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) Danger Specific concentration limit (SCL) 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%	≥ 25 - < 50 weight-%
CAS No.: 9016-87-9	Diphenylmethandiisocyanat, Isomere und Homologe 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) Danger	≥ 25 - < 50 weight-%
CAS No.: 124-17-4 EC No.: 204-685-9	2-(2-butoxyethoxy)ethyl acetate The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	≥ 7 - < 10 weight-%
CAS No.: 5873-54-1 EC No.: 227-534-9 Index No.: 615-005-00-9	o-(p-isocyanatobenzyl)phenyl isocyanate 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) Danger Specific concentration limit (SCL) 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%	≥ 1 - < 3 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:

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

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.

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Following ingestion:

Rinse mouth. Get medical advice/attention if you feel unwell. Let 1 glass of water be drunk in little sips (dilution effect).

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:

Co-ordinate fire-fighting measures to the fire surroundings. Foam Carbon dioxide (CO₂) Extinguishing powder

Unsuitable extinguishing media:

Water

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:

In case of fire: Gases/vapours, toxic

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).

6.4. Reference to other sections

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

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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, smoke, sniff. Avoid contact with skin, eyes and clothes.

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.

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
BE	4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8 EC No.: 202-966-0	① 0.005 ppm (0.052 mg/m ³) ⑤ (MDI)
CZ	4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8 EC No.: 202-966-0	① 0.05 mg/m ³ ② 0.1 mg/m ³ ⑤ I, S
PL	4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8 EC No.: 202-966-0	① 0.03 mg/m ³ ② 0.09 mg/m ³
NO	4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8 EC No.: 202-966-0	① 0.005 ppm (0.05 mg/m ³) ② 0.01 ppm ⑤ A4
IE	4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8 EC No.: 202-966-0	① 0.005 ppm ⑤ Sens
TRGS 900 (DE)	4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8 EC No.: 202-966-0	① 0.05 mg/m ³ ② 0.05 mg/m ³ ③ 0.1 mg/m ³ ⑤ (Aerosol und Dampf, einatembare Fraktion, kann über die Haut aufgenommen werden) DFG, 11, 12, H, Sah, Y

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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
LT	4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8 EC No.: 202-966-0	① 0.005 ppm (0.05 mg/m ³) ③ 0.01 ppm (0.1 mg/m ³) 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 ³ , yra skirtingi. J
SE	4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8 EC No.: 202-966-0	① 0.002 ppm (0.03 mg/m ³) ② 0.005 ppm (0.05 mg/m ³)
NPEL (SK)	4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8 EC No.: 202-966-0	① 0.002 ppm (0.03 mg/m ³) ⑤ S
MAK (AT)	4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8 EC No.: 202-966-0	① 0.005 ppm (0.05 mg/m ³) ⑤ III B, Sah
MAK (AT)	4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8 EC No.: 202-966-0	② 0.01 ppm (0.1 mg/m ³) ⑤ (max. 8x5 min./Schicht, Momentanwert) III B, Sah
DK	4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8 EC No.: 202-966-0	① 0.005 ppm (0.05 mg/m ³) ② 0.01 ppm (0.1 mg/m ³) ⑤ K
MY	4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8 EC No.: 202-966-0	① 0.005 ppm (0.051 mg/m ³)
EE	4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8 EC No.: 202-966-0	① 0.005 ppm (0.05 mg/m ³) ② 0.01 ppm (0.1 mg/m ³) ⑤ (Lühiajalise kokkupuute piinorm, arvatatud 5-min kokkupuuteajale.) S
Alberta (CA)	4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8 EC No.: 202-966-0	① 0.005 ppm (0.05 mg/m ³)
BC (CA)	4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8 EC No.: 202-966-0	① 0.005 ppm ③ 0.01 ppm ⑤ S(R)
ES	4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8 EC No.: 202-966-0	① 0.005 ppm (0.052 mg/m ³) ⑤ Sen, r
Ontario (CA)	4,4'-methylenediphenyl diisocyanate 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	4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8 EC No.: 202-966-0	① 0.05 mg/m ³
MX	4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8 EC No.: 202-966-0	① 0.005 ppm (0.051 mg/m ³)
VLA (FR)	4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8 EC No.: 202-966-0	① 0.01 ppm (0.1 mg/m ³) ② 0.02 ppm (0.2 mg/m ³)

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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
TW	4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8 EC No.: 202-966-0	③ 0.02 ppm (0.2 mg/m ³)
IS	4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8 EC No.: 202-966-0	① 0.005 ppm (0.05 mg/m ³) ② 0.01 ppm (0.1 mg/m ³) ⑤ 0
CN	4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8 EC No.: 202-966-0	① 0.05 mg/m ³ ② 0.1 mg/m ³
RU	4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8 EC No.: 202-966-0	③ 0.5 mg/m ³ ⑤ A
HU	4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8 EC No.: 202-966-0	① 0.05 mg/m ³ ② 0.05 mg/m ³ ⑤ (felvehető a bőrön keresztül) i, sz, BEM
GR	4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8 EC No.: 202-966-0	① 0.02 ppm (0.2 mg/m ³) ② 0.02 ppm (0.2 mg/m ³)
SI	4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8 EC No.: 202-966-0	① 0.005 mg/m ³ ② 0.005 mg/m ³ ⑤ (računati je treba z možnostjo prodiranja skozi kožo frakcija ki jo je mogoče vdihniti) K, Y
SI	4,4'-methylenediphenyl diisocyanate 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	4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8 EC No.: 202-966-0	② 0.15 mg/m ³ ⑤ C2
OSHA (US)	4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8 EC No.: 202-966-0	③ 0.02 ppm (0.2 mg/m ³)
NIOSH (US)	4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8 EC No.: 202-966-0	① 0.005 ppm (0.05 mg/m ³) ③ 0.02 ppm (0.2 mg/m ³)
ACGIH (US)	4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8 EC No.: 202-966-0	① 0.005 ppm
Québec (CA)	4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8 EC No.: 202-966-0	① 0.005 ppm (0.051 mg/m ³)
Québec (CA)	Diphenylmethandiisocyanat, Isomere und Homologe CAS No.: 9016-87-9	① 0.005 ppm (0.051 mg/m ³) ⑤ (4,4'-Methylenediphenyl diisocyanate - CAS 101-68-8)
NIOSH (US)	Diphenylmethandiisocyanat, Isomere und Homologe CAS No.: 9016-87-9	① 0.005 ppm (0.05 mg/m ³) ③ 0.02 ppm (0.2 mg/m ³) ⑤ (4,4'-Methylenediphenyl diisocyanate - CAS 101-68-8)
Alberta (CA)	Diphenylmethandiisocyanat, Isomere und Homologe CAS No.: 9016-87-9	① 0.005 ppm (0.07 mg/m ³)

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SI	Diphenylmethandiisocyanat, Isomere und Homologe CAS No.: 9016-87-9	① 0.05 mg/m ³ ② 0.05 mg/m ³ ⑤ (als MDI berechnet), (frakcija ki jo je mogoče vdihniti, računati je treba z možnostjo prodiranja skozi kožo) K, Y
TRGS 900 (DE)	Diphenylmethandiisocyanat, Isomere und Homologe CAS No.: 9016-87-9	① 0.05 mg/m ³ ② 0.05 mg/m ³ ③ 0.1 mg/m ³ ⑤ (als MDI berechnet), (einatembare Fraktion), kann über die Haut aufgenommen werden DFG, H, Sah, Y, 12
LT	2-(2-butoxyethoxy)ethyl acetate CAS No.: 124-17-4 EC No.: 204-685-9	① 15 ppm (130 mg/m ³) ② 30 ppm (250 mg/m ³) ⑤
SE	2-(2-butoxyethoxy)ethyl acetate CAS No.: 124-17-4 EC No.: 204-685-9	① 15 ppm (130 mg/m ³) ③ 30 ppm (250 mg/m ³)
TRGS 900 (DE)	2-(2-butoxyethoxy)ethyl acetate CAS No.: 124-17-4 EC No.: 204-685-9	① 10 ppm (67 mg/m ³) ② 15 ppm (100.5 mg/m ³) ⑤ (Aerosol und Dampf, kann über die Haut aufgenommen werden) DFG, Y, 11
CH	2-(2-butoxyethoxy)ethyl acetate CAS No.: 124-17-4 EC No.: 204-685-9	① 10 ppm (85 mg/m ³) ② 15 ppm (128 mg/m ³) ⑤ (Dampf und Aerosol) SSC
SI	2-(2-butoxyethoxy)ethyl acetate CAS No.: 124-17-4 EC No.: 204-685-9	① 10 ppm (67.5 mg/m ³) ② 15 ppm (101.2 mg/m ³) ⑤ Y
TRGS 900 (DE)	o-(p-isocyanatobenzyl)phenyl isocyanate CAS No.: 5873-54-1 EC No.: 227-534-9	① 0.05 mg/m ³ ② 0.05 mg/m ³ ③ 0.1 mg/m ³ ⑤ (Aerosol und Dampf) AGS, 11, 12
PL	o-(p-isocyanatobenzyl)phenyl isocyanate CAS No.: 5873-54-1 EC No.: 227-534-9	① 0.03 mg/m ³ ② 0.09 mg/m ³
MAK (AT)	o-(p-isocyanatobenzyl)phenyl isocyanate CAS No.: 5873-54-1 EC No.: 227-534-9	① 0.005 ppm (0.05 mg/m ³) ⑤ III B, Sah
MAK (AT)	o-(p-isocyanatobenzyl)phenyl isocyanate CAS No.: 5873-54-1 EC No.: 227-534-9	② 0.01 ppm (0.1 mg/m ³) ⑤ (max. 8x5 min./Schicht, Momentanwert) III B, Sah
SI	o-(p-isocyanatobenzyl)phenyl isocyanate CAS No.: 5873-54-1 EC No.: 227-534-9	① 0.05 mg/m ³ ② 0.05 mg/m ³

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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)	4,4'-methylenediphenyl diisocyanate 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

Substance name	DNEL value	① DNEL type ② Exposure route
2-(2-butoxyethoxy)ethyl acetate CAS No.: 124-17-4 EC No.: 204-685-9	100 mg/kg bw/ day	① DNEL worker ② Long-term - dermal, systemic effects
2-(2-butoxyethoxy)ethyl acetate CAS No.: 124-17-4 EC No.: 204-685-9	60 mg/kg bw/ day	① DNEL Consumer ② Long-term - dermal, systemic effects
2-(2-butoxyethoxy)ethyl acetate CAS No.: 124-17-4 EC No.: 204-685-9	7.9 mg/kg bw/ day	① DNEL Consumer ② Long-term - oral, systemic effects

Substance name	PNEC Value	① PNEC type
2-(2-butoxyethoxy)ethyl acetate CAS No.: 124-17-4 EC No.: 204-685-9	0.108 mg/L	① PNEC aquatic, freshwater
2-(2-butoxyethoxy)ethyl acetate CAS No.: 124-17-4 EC No.: 204-685-9	0.0108 mg/L	① PNEC aquatic, marine water
2-(2-butoxyethoxy)ethyl acetate CAS No.: 124-17-4 EC No.: 204-685-9	0.8 mg/kg	① PNEC sediment, freshwater
2-(2-butoxyethoxy)ethyl acetate CAS No.: 124-17-4 EC No.: 204-685-9	0.08 mg/kg	① PNEC sediment, marine water
2-(2-butoxyethoxy)ethyl acetate CAS No.: 124-17-4 EC No.: 204-685-9	70 mg/kg	① PNEC secondary poisoning

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 time: >480min. Suitable material: NBR (Nitrile rubber) (0,4mm), CR (polychloroprene, chloroprene rubber) (0,5mm), Butyl caoutchouc (butyl rubber) (0,7mm) etc. Breakthrough times and swelling properties of the material must be taken into consideration. Observe the wear time limits as specified by the manufacturer.

Respiratory protection:

A

8.2.3. Environmental exposure controls

No data available

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: brown

Odour: not determined

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	200 °C		
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	1.16 g/cm ³	20 °C	
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	115 mPa* s	23 °C	
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

No data available

10.6. Hazardous decomposition products

No data available

Further information

SECTION 7: Handling and storage

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SECTION 11: Toxicological information

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

4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8 EC No.: 202-966-0
LD₅₀ oral: >10,000 mg/kg (Rat)
LC₅₀ Acute inhalation toxicity (dust/mist): 2.24 mg/L 1 h (Rat)
Diphenylmethandiisocyanat, Isomere und Homologe CAS No.: 9016-87-9
LD₅₀ oral: >10,000 mg/kg (Rat) OECD 401
LD₅₀ dermal: >9,400 mg/kg (Rabbit) OECD 402
LC₅₀ Acute inhalation toxicity (vapour): 0.493 mg/L 4 h (Rat)
2-(2-butoxyethoxy)ethyl acetate CAS No.: 124-17-4 EC No.: 204-685-9
LD₅₀ oral: 11,920 mg/kg (Rat)
LD₅₀ dermal: 5,400 mg/kg (Rabbit)
LC₅₀ Acute inhalation toxicity (vapour): >400 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. 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.

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

4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8 EC No.: 202-966-0
LC ₅₀ : >1,000 mg/L 4 d (fish, Danio rerio (zebrafish)) OECD 203
EC ₅₀ : >1,000 mg/L (Daphnia magna (Big water flea)) OECD 202 ; 24h
EC ₅₀ : >100 mg/L (Activated sludge) 3h
EC ₅₀ : >1,000 mg/L (Eisenia fetida) 14d
Diphenylmethandiisocyanat, Isomere und Homologe CAS No.: 9016-87-9
LC ₅₀ : >1,000 mg/L 4 d (fish, Danio rerio (zebrafish)) OECD 203
EC ₅₀ : >1,000 mg/L (Daphnia magna (Big water flea)) OECD 202 24h
EC ₅₀ : >1,640 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus) OECD 201
EC ₅₀ : >100 mg/L (Activated sludge) OECD 209 3h
2-(2-butoxyethoxy)ethyl acetate CAS No.: 124-17-4 EC No.: 204-685-9
LC ₅₀ : >50 - 70 mg/L 4 d (fish, Danio rerio (zebrafish))
LC ₅₀ : 664 mg/L 2 d (crustaceans, Daphnia magna (Big water flea))
EC ₅₀ : 1,570 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8 EC No.: 202-966-0
Log K _{OW} : 4.51
Bioconcentration factor (BCF): 92 Species: Cyprinus carpio (Common Carp)
Diphenylmethandiisocyanat, Isomere und Homologe CAS No.: 9016-87-9
Bioconcentration factor (BCF): 200
2-(2-butoxyethoxy)ethyl acetate CAS No.: 124-17-4 EC No.: 204-685-9
Log K _{OW} : 1.7
o-(p-isocyanatobenzyl)phenyl isocyanate CAS No.: 5873-54-1 EC No.: 227-534-9
Log K _{OW} : 5.22

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8 EC No.: 202-966-0
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
Diphenylmethandiisocyanat, Isomere und Homologe CAS No.: 9016-87-9
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
2-(2-butoxyethoxy)ethyl acetate CAS No.: 124-17-4 EC No.: 204-685-9
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
o-(p-isocyanatobenzyl)phenyl isocyanate CAS No.: 5873-54-1 EC No.: 227-534-9
Results of PBT and vPvB assessment: —

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

No data available

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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)
14.1. UN number or ID number			
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.
14.2. UN proper shipping name			
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.
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precautions for user			
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

15.2. Chemical Safety Assessment

No data available

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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.
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