

SAFETY DATA SHEET

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

Revision date: 10-Jun-2015

Print date: 16-Jun-2015

Version: 2.1

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construction chemicals



EURODUR PUV 0421 jointfill Komponente A

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

1.1. Product identifier

Trade name/designation:

EURODUR PUV 0421 jointfill Komponente A

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

Relevant identified uses:

Sector of uses [SU]

SU 19: Building and construction work

Uses advised against:

Sector of uses [SU]

SU 21: Consumer uses: Private households (= general public = consumers)

1.3. Details of the supplier of the safety data sheet

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

Euroteam Bauchemie GmbH

An der Mühle 1
15345 Altlandsberg
Germany

Telephone: +49 (0) 33438 14790

Telefax: +49 (0) 33438 147929

E-mail: info@euroteam-bauchemie.de

Website: www.euroteam-bauchemie.de

E-mail (competent person): info@euroteam-bauchemie.de

1.4. Emergency telephone number

Labor, 24h: +49 (0) 162 2599220, Montag - Donnerstag 7:00 - 16:00; Freitag 7:00 - 13:00 +49 (0) 33438 1479 19 (Only available during office hours.)

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
STOT-repeated exposure (STOT RE 1)	H372: Causes damage to organs through prolonged or repeated exposure.	

2.2. Label elements

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

Hazard pictograms:



GHS08

Health hazard

Signal word: Danger

Hazard components for labelling:

Quartz (SiO₂)

hazard statements for health hazards

H372 Causes damage to organs through prolonged or repeated exposure.

Supplemental Hazard information (EU): -

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Precautionary statements Prevention

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P270	Do not eat, drink or smoke when using this product.

Precautionary statements Response

P302 + P352.1	IF ON SKIN: Wash with plenty of soap and water.
P314	Get medical advice/attention if you feel unwell.

2.3. Other hazards

No data available

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.: 14808-60-7 EC No.: 238-878-4	Quartz (SiO ₂) STOT RE 1 H372	11 - 19 Wt %

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 place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician. 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.

After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion:

Get medical advice/attention if you feel unwell.

Self-protection of the first aider:

Use personal protection equipment.

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

Skin corrosion/irritation Allergic reactions Serious eye damage/eye irritation

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:

alcohol resistant foam, Extinguishing powder, Carbon dioxide (CO₂), Water spray

Unsuitable extinguishing media:

Full water jet

5.2. Special hazards arising from the substance or mixture

Carbon dioxide (CO₂), Nitrogen oxides (NO_x), carbon black, Carbon monoxide.

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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 (e.g. 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

6.5. Additional information

No data available

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). Do not breathe gas/fumes/vapour/spray. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Fire prevent measures:

Usual measures for fire prevention. No special fire protection measures are necessary.

Environmental precautions:

Do not allow to enter into soil/subsoil.

Advices on general occupational hygiene

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

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

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

Packaging materials:

Suitable container/equipment material: Tin

Requirements for storage rooms and vessels:

Keep/Store only in original container. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect against direct sunlight.

Hints on storage assembly:

Do not store together with: Oxidising agent. Keep away from food, drink and animal feedingstuffs.

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Storage class: 10 - Combustible liquids that cannot be assigned to any of the above storage classes

Further information on storage conditions:

Do not store at temperatures below 5 °C. Do not store at temperatures above: 20 °C

7.3. Specific end use(s)

Recommendation:

Observe technical data sheet.

Industrial sector specific solutions:

PU systems, solvent-free, harmful, sensitising

Giscode:

PU40

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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:

(DIN EN 166) Eye glasses with side protection

Skin protection:

Recommended material: Butyl caoutchouc (butyl rubber), NBR (Nitrile rubber) Tested protective gloves must be worn DIN EN 374. In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Respiratory protection:

(Combination filtering device (EN 14387)) If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Other protection measures:

Avoid: Inhalation of vapours or spray/mists. Avoid contact with skin and eyes. Wash hands before breaks and after work. Apply skin care products after work.

8.2.3. Environmental exposure controls

No data available

8.3. Additional information

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: liquid

Colour: pigmented

Odour: characteristic

Safety relevant basis data

parameter		at °C	Method	remark
pH	<i>not applicable</i>			
Melting point/freezing point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	200 °C			
Decomposition temperature (°C):	<i>not determined</i>			
Flash point	> 200 °C		EN ISO 2592	
Evaporation rate	<i>not determined</i>			

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parameter		at °C	Method	remark
Ignition temperature in °C	> 300 °C		DIN 51794	
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	0.2 hPa	50 °C	DIN 51640	
Vapour density	<i>not determined</i>			
Density	1.5 g/cm ³	20 °C	DIN 51757	
Bulk density	<i>not applicable</i>			
Water solubility (g/L)	insoluble			
Partition coefficient: n-octanol/water				Immiscible
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>	40 °C		

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is chemically stable under recommended conditions of storage, use and temperature.

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

Violent reaction with: Oxidising agent

10.4. Conditions to avoid

Safe handling: see section 7

10.5. Incompatible materials

Oxidising agent

10.6. Hazardous decomposition products

Hydrogen sulfide (H₂S), Hydrocarbons, Carbon monoxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Skin corrosion/irritation:

none

Eye damage/irritation:

Irritating to eyes.

STOT-repeated exposure:

The classification criteria for this hazard class are not met by definition.

Additional information:

The product has not been tested. The statement is derived from the properties of the single components.

SECTION 12: Ecological information

12.1. Toxicity

No data available

12.2. Persistence and degradability

Biodegradation:

Poorly biodegradable.

12.3. Bioaccumulative potential

Partition coefficient: n-octanol/water:

remark: Immiscible

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12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
14808-60-7	Quartz (SiO ₂)	—

not applicable

12.6. Other adverse effects

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

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 01 11 *	Waste paint and varnish containing organic solvents or other dangerous substances
08 01 12	waste paint and varnish other than those mentioned in 08 01 11

*: Evidence for disposal must be provided.

Waste treatment options

Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Completely emptied packages can be recycled.

13.2. Additional information

No data available

SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

14.1. UN-No.	not relevant
14.2. UN proper shipping name	not relevant
14.3. Transport hazard class(es)	not relevant
14.4. Packing group	not relevant
14.5. Environmental hazards	not relevant
14.6. Special precautions for user	not relevant

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Only use containers specifically approved for the substance/product.

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SECTION 15: Regulatory information

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

15.1.1. EU legislation

No data available

15.1.2. National regulations

[DE] National regulations

Water hazard class (WGK)

WGK:

nwg - nicht wassergefährdend

Berufsgenossenschaftliche Vorschriften (BGV)

Berufsgenossenschaftliche Informationen (BGI): m077

15.2. Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

15.3. Additional information

No data available

SECTION 16: Other information

16.1. Indication of changes

12.5. Results of PBT and vPvB assessment

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) 1272/2008 [CLP]

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
STOT-repeated exposure (STOT RE 1)	H372: Causes damage to organs through prolonged or repeated exposure.	

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

Hazard statements	
H372	Causes damage to organs through prolonged or repeated exposure.

16.6. Training advice

No data available

16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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

1.1. Product identifier

Trade name/designation:

EURODUR PUV 0421 jointfill Komponente B

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

Relevant identified uses:

Sector of uses [SU]

SU 19: Building and construction work

Uses advised against:

Sector of uses [SU]

SU 21: Consumer uses: Private households (= general public = consumers)

1.3. Details of the supplier of the safety data sheet

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

Euroteam Bauchemie GmbH

An der Mühle 1
15345 Altlandsberg
Germany

Telephone: +49 (0) 33438 14790

Telefax: +49 (0) 33438 147929

E-mail: info@euroteam-bauchemie.de

Website: www.euroteam-bauchemie.de

E-mail (competent person): info@euroteam-bauchemie.de

1.4. Emergency telephone number

Labor, 24h: +49 (0) 162 2599220, Montag - Donnerstag 7:00 - 16:00; Freitag 7:00 - 13:00 +49 (0) 33438 1479 19 (Only available during office hours.)

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

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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; Polymethylene polyphenyl polyisocyanate; 2,2'-methylenediphenyl diisocyanate; 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 (EU)

EUH204	Contains isocyanates. 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 + P352.1	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.
P308 + P313	IF exposed or concerned: Get medical advice/attention.

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 REACH No.: 01-2119457014-47-XXXX	4,4'-methylenediphenyl diisocyanate STOT SE 3, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, Carc. 2, STOT RE 2 H315-H317-H319-H332-H334-H335-H351-H373	≥ 50 - < 75 Wt %
CAS No.: 5873-54-1 EC No.: 227-534-9 REACH No.: 01-2119480143-45-XXXX	o-(p-isocyanatobenzyl)phenyl isocyanate STOT SE 3, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT RE 2 H315-H317-H319-H332-H334-H335-H373	≥ 25 - < 50 Wt %
CAS No.: 9016-87-9	Polymethylene polyphenyl polyisocyanate STOT SE 3, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, Carc. 2, STOT RE 2 H315-H317-H319-H332-H334-H335-H351-H373	≥ 10 - < 20 Wt %
CAS No.: 2536-05-2 EC No.: 219-799-4 REACH No.: 01-2119927323-43-XXXX	2,2'-methylenediphenyl diisocyanate Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, Carc. 2, STOT RE 2 H315-H317-H319-H332-H334-H351-H373	≥ 1 - < 5 Wt %
CAS No.: 99-63-8 EC No.: 202-774-7 REACH No.: 01-2119493993-19-XXXX	isophthaloyl dichloride STOT SE 3, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1 H312-H315-H317-H319-H335	≥ 0.1 - < 0.3 Wt %

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

Remove contaminated, saturated clothing immediately.

Following inhalation:

Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract irritation, consult a physician.

In case of skin contact:

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. IF ON SKIN: Wash with plenty of soap and water. In case of skin irritation, consult a physician.

After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion:

Do NOT induce vomiting. Immediately call a doctor.

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

Irritating to respiratory system and skin.

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 (CO₂), Water spray

Unsuitable extinguishing media:

Full water jet

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5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon dioxide (CO₂), Nitrogen oxides (NO_x), Gases/vapours, toxic, Hydrogen cyanide (hydrocyanic acid), Carbon monoxide. Do not breathe dust/fume/gas/mist/vapours/spray. In case of fire: Pressurised container: May burst if heated. Move undamaged containers from immediate hazard area if it can be done safely.

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:

Use personal protection equipment. See section 8. Provide adequate ventilation.

6.1.2. For emergency responders

No data available

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For cleaning up:

Take up mechanically. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Add the decontaminant to the remnants and let stand for several days in a non-sealed container until no further reaction is observed. Once reaction is finished, close container and dispose of. Possibility of hazardous reactions: CARBON DIOXIDE. Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

6.4. Reference to other sections

Disposal: see section 13

6.5. Additional information

No data available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Use only in well-ventilated areas. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. Avoid: Skin contact, Eye contact. Protective measures: Personal protection equipment: see section 8

Advices on general occupational hygiene

Keep away from food, drink and animal feedingstuffs. Wash hands before breaks and after work. Apply skin care products after work. Separate storage of work clothes. Take off immediately all contaminated clothing.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

Keep container tightly closed and dry.

Storage class: 10 - Combustible liquids that cannot be assigned to any of the above storage classes

Further information on storage conditions:

Do not store at temperatures above: 50 °C. Do not store at temperatures below: 10°C Protect against: Humidity

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7.3. Specific end use(s)

Recommendation:

Observe technical data sheet.

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
TRGS 900 (DE)	4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8	① 0.05 mg/m ³ ② 0.05 mg/m ³ ③ 0.1 mg/m ³ ⑤ (einatembare Fraktion)
TRGS 900 (DE)	o-(p-isocyanatobenzyl)phenyl isocyanate CAS No.: 5873-54-1	① 0.05 mg/m ³ ② 0.05 mg/m ³ ③ 0.1 mg/m ³
TRGS 900 (DE)	Polymethylene polyphenyl polyisocyanate 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)
TRGS 900 (DE)	2,2'-methylenediphenyl diisocyanate CAS No.: 2536-05-2	① 0.05 mg/m ³ ② 0.05 mg/m ³ ③ 0.1 mg/m ³

8.1.2. biological limit values

Limit value type (country of origin)	Substance name	Limit value	① parameter ② Test material ③ Sample time ④ remark
TRGS 903 (DE)	4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8	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
4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8	0.1 mg/m ³	① DNEL worker ② DNEL acute inhalative (systemic)
4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8	0.1 mg/m ³	① DNEL worker ② DNEL acute inhalative (local)
4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8	0.05 mg/m ³	① DNEL worker ② DNEL long-term inhalative (systemic)
4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8	0.05 mg/m ³	① DNEL worker ② DNEL long-term inhalative (local)
4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8	50 mg/kg bw/day	① DNEL worker ② DNEL acute dermal, short-term (systemic)

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Substance name	DNEL value	① DNEL type ② Exposure route
4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8	28.7 ppmV	① DNEL worker ② DNEL acute dermal, short-term (local)
o-(p-isocyanatobenzyl)phenyl isocyanate CAS No.: 5873-54-1	0.1 mg/m ³	① DNEL worker ② DNEL acute inhalative (systemic)
o-(p-isocyanatobenzyl)phenyl isocyanate CAS No.: 5873-54-1	0.1 mg/m ³	① DNEL worker ② DNEL acute inhalative (local)
o-(p-isocyanatobenzyl)phenyl isocyanate CAS No.: 5873-54-1	0.05 mg/m ³	① DNEL worker ② DNEL long-term inhalative (systemic)
o-(p-isocyanatobenzyl)phenyl isocyanate CAS No.: 5873-54-1	0.05 mg/m ³	① DNEL worker ② DNEL long-term inhalative (local)
o-(p-isocyanatobenzyl)phenyl isocyanate CAS No.: 5873-54-1	50 mg/kg bw/day	① DNEL worker ② DNEL acute dermal, short-term (systemic)
o-(p-isocyanatobenzyl)phenyl isocyanate CAS No.: 5873-54-1	28.7 ppmV	① DNEL worker ② DNEL acute dermal, short-term (local)
2,2'-methylenediphenyl diisocyanate CAS No.: 2536-05-2	0.1 mg/m ³	① DNEL worker ② DNEL acute inhalative (systemic)
2,2'-methylenediphenyl diisocyanate CAS No.: 2536-05-2	0.1 mg/m ³	① DNEL worker ② DNEL acute inhalative (local)
2,2'-methylenediphenyl diisocyanate CAS No.: 2536-05-2	0.05 mg/m ³	① DNEL worker ② DNEL long-term inhalative (systemic)
2,2'-methylenediphenyl diisocyanate CAS No.: 2536-05-2	0.05 mg/m ³	① DNEL worker ② DNEL long-term inhalative (local)
2,2'-methylenediphenyl diisocyanate CAS No.: 2536-05-2	50 mg/kg bw/day	① DNEL worker ② DNEL acute dermal, short-term (systemic)
2,2'-methylenediphenyl diisocyanate CAS No.: 2536-05-2	28.7 ppmV	① DNEL worker ② DNEL long-term dermal (local)
isophthaloyl dichloride CAS No.: 99-63-8	3.94 mg/m ³	① DNEL worker ② DNEL long-term inhalative (systemic)
isophthaloyl dichloride CAS No.: 99-63-8	4.47 mg/kg bw/day	① DNEL worker ② DNEL long-term dermal (systemic)

Substance name	PNEC Value	① PNEC type
4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8	1 mg/l	① PNEC aquatic, freshwater
4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8	0.1 mg/l	① PNEC aquatic, marine water
4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8	1 mg/kg	① PNEC soil, freshwater
4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8	1 mg/l	① PNEC sewage treatment plant (STP)
o-(p-isocyanatobenzyl)phenyl isocyanate CAS No.: 5873-54-1	1 mg/l	① PNEC aquatic, freshwater
o-(p-isocyanatobenzyl)phenyl isocyanate CAS No.: 5873-54-1	0.1 mg/l	① PNEC aquatic, marine water
o-(p-isocyanatobenzyl)phenyl isocyanate CAS No.: 5873-54-1	1 mg/kg	① PNEC soil, freshwater
o-(p-isocyanatobenzyl)phenyl isocyanate CAS No.: 5873-54-1	1 mg/l	① PNEC sewage treatment plant (STP)
2,2'-methylenediphenyl diisocyanate CAS No.: 2536-05-2	1 mg/l	① PNEC aquatic, freshwater

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Substance name	PNEC Value	① PNEC type
2,2'-methylenediphenyl diisocyanate CAS No.: 2536-05-2	0.1 mg/l	① PNEC aquatic, marine water
2,2'-methylenediphenyl diisocyanate CAS No.: 2536-05-2	1 mg/kg	① PNEC soil, freshwater
2,2'-methylenediphenyl diisocyanate CAS No.: 2536-05-2	1 mg/l	① PNEC sewage treatment plant (STP)
isophthaloyl dichloride CAS No.: 99-63-8	0.133 mg/l	① PNEC aquatic, freshwater
isophthaloyl dichloride CAS No.: 99-63-8	0.0133 mg/l	① PNEC aquatic, marine water
isophthaloyl dichloride CAS No.: 99-63-8	1.337 mg/l	① PNEC aquatic, intermittent release
isophthaloyl dichloride CAS No.: 99-63-8	6.171 mg/l	① PNEC sewage treatment plant (STP)
isophthaloyl dichloride CAS No.: 99-63-8	0.6365 mg/kg	① PNEC sediment, freshwater
isophthaloyl dichloride CAS No.: 99-63-8	0.0637 mg/kg	① PNEC sediment, marine water
isophthaloyl dichloride CAS No.: 99-63-8	0.0492 mg/kg	① PNEC soil, freshwater

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

Skin protection:

Suitable gloves type: DIN EN 374: CR (polychloroprene, chloroprene rubber), Butyl caoutchouc (butyl rubber) Thickness of the glove material: $\geq 0,5$ mm; Breakthrough time (maximum wearing time): ≥ 480 min. NBR (Nitrile rubber) Thickness of the glove material: $\geq 0,35$ mm; Breakthrough time (maximum wearing time): ≥ 480 min. FKM (fluoro rubber) Thickness of the glove material: $\geq 0,4$ mm; Breakthrough time (maximum wearing time): ≥ 480 min. Take off contaminated clothing. Wear suitable protective clothing, gloves and eye/face protection.

Respiratory protection:

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Suitable respiratory protection apparatus: Combination filtering device (EN 14387). Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be exposed to any process in which this product is used.

8.2.3. Environmental exposure controls

No data available

8.3. Additional information

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

Odour: earthy

Safety relevant basis data

parameter		at °C	Method	remark
pH	<i>not applicable</i>			
Melting point/freezing point	<i>not determined</i>			
Freezing point	<i>not determined</i>			

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parameter		at °C	Method	remark
Initial boiling point and boiling range	<i>not determined</i>			
Decomposition temperature (°C):	≈ 260 °C			
Flash point	> 200 °C			
Evaporation rate	<i>not determined</i>			
Ignition temperature in °C	> 400 °C		DIN 51794	
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	< 0.0001 hPa	20 °C		
Vapour density	<i>not determined</i>			
Density	≈ 1.22 g/cm ³	20 °C	DIN 51757	
Bulk density	<i>not determined</i>			
Water solubility (g/L)	Immiscible	15 °C		
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	≈ 22.5 mPa*s	25 °C		
Kinematic viscosity	<i>not determined</i>			
Solidifying point	5 - 10 °C			

9.2. Other information

Further information: see technical data sheet.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

No data available

10.3. Possibility of hazardous reactions

Exothermic reaction with: Amines Alcohols; Contact with water liberates toxic gas. (Carbon dioxide (CO₂)).
Caution! Container under pressure. Danger of bursting container.

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

No known hazardous decomposition products. The product is stable under storage at normal ambient temperatures.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
101-68-8	4,4'-methylenediphenyl diisocyanate	LD₅₀ oral: >2,000 mg/kg (Rat) LD₅₀ dermal: >9,400 mg/kg (Rabbit) OECD 402 LC₅₀ inhalative: 0.368 mg/l 4 h (Rat) OECD 403 LC₅₀ inhalative: >2.24 ppmV 1 h (Rat) OECD 403
5873-54-1	o-(p-isocyanatobenzyl)phenyl isocyanate	LD₅₀ oral: >2,000 mg/kg (Rat) LC₅₀ inhalative: 0.387 mg/l 4 h (Rat) LD₅₀ dermal: >9,400 mg/kg (Rabbit)
9016-87-9	Polymethylene polyphenyl polyisocyanate	LD₅₀ oral: >10,000 mg/kg (Rat) OECD 401 LD₅₀ dermal: >9,400 mg/kg (Rabbit) OECD 402 LC₅₀ inhalative: >0.31 mg/l (Rat) OECD 403
2536-05-2	2,2'-methylenediphenyl diisocyanate	LD₅₀ oral: >2,000 mg/kg (Rat) LD₅₀ dermal: >9,400 mg/kg (Rabbit) OECD 402 LC₅₀ inhalative: >0.527 mg/l 4 h (Rat) OECD 403
99-63-8	isophthaloyl dichloride	LD₅₀ oral: ≈2,200 mg/kg (Rat) LD₅₀ dermal: ≈1,410 mg/kg (Rabbit)

Acute inhalation toxicity:

Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin corrosion/irritation:

Irritating to skin.

Eye damage/irritation:

Causes serious eye irritation.

Respiratory or skin sensitisation:

Sensitisation to the respiratory tract. May cause an allergic skin reaction.

Carcinogenicity:

May cause cancer.

STOT-repeated exposure:

May cause damage to organs through prolonged or repeated exposure.

Additional information:

The product has not been tested. The statement is derived from the properties of the single components.

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SECTION 12: Ecological information

12.1. Toxicity

CAS No.	Substance name	Toxicological information
101-68-8	4,4'-methylenediphenyl diisocyanate	LC₅₀ : >1,000 mg/l 4 d (Brachydanio rerio (zebrafish)) OECD 203 EC₅₀ : >1,000 mg/l (Daphnia magna (Big water flea)) OECD 202 NOEC : >10 mg/l 21 d (Daphnia magna (Big water flea)) OECD 202 ErC₅₀ : >1,640 mg/l 3 d (Scenedesmus subspicatus) OECD 201 EC₅₀ : >100 mg/l (Activated sludge) OECD 209
5873-54-1	o-(p-isocyanatobenzyl)phenyl isocyanate	LC₅₀ : >1,000 mg/l 4 d (Brachydanio rerio (zebrafish)) OECD 203 EC₅₀ : >1,000 mg/l (Daphnia magna (Big water flea)) OECD 202 NOEC : >10 mg/l 21 d (Daphnia magna (Big water flea)) OECD 202 ErC₅₀ : >1,640 mg/l 3 d (Scenedesmus subspicatus) OECD 201 EC₅₀ : >100 mg/l (Activated sludge) OECD 209
9016-87-9	Polymethylene polyphenyl polyisocyanate	LC₅₀ : >1,000 mg/l 4 d (Brachydanio rerio (zebrafish)) OECD 203 EC₅₀ : >1,000 mg/l (Daphnia magna (Big water flea)) OECD 202 NOEC : >10 mg/l 21 d (Daphnia magna (Big water flea)) OECD 202 ErC₅₀ : >1,640 mg/l 3 d (Scenedesmus subspicatus) OECD 201 EC₅₀ : >100 mg/l (Activated sludge) OECD 209
2536-05-2	2,2'-methylenediphenyl diisocyanate	LC₅₀ : >1,000 mg/l 4 d (Brachydanio rerio (zebrafish)) OECD 203 EC₅₀ : >1,000 mg/l (Daphnia magna (Big water flea)) OECD 202 NOEC : >10 mg/l 21 d (Daphnia magna (Big water flea)) OECD 202 EC₅₀ : >1,640 mg/l 3 d (Scenedesmus subspicatus) OECD 201 EC₅₀ : >100 mg/l (Activated sludge) OECD 209
99-63-8	isophthaloyl dichloride	LC₅₀ : 134 mg/l 4 d

12.2. Persistence and degradability

CAS No.	Substance name	Biodegradation	remark
101-68-8	4,4'-methylenediphenyl diisocyanate	No	OECD 302C
5873-54-1	o-(p-isocyanatobenzyl)phenyl isocyanate	No	OECD 302C
9016-87-9	Polymethylene polyphenyl polyisocyanate	No	OECD 302C
2536-05-2	2,2'-methylenediphenyl diisocyanate	No	OECD 302C

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12.3. Bioaccumulative potential

CAS No.	Substance name	Log K _{OC}	Bioconcentration factor (BCF)
101-68-8	4,4'-methylenediphenyl diisocyanate		200 species: Cyprinus carpio (Common Carp)
5873-54-1	o-(p-isocyanatobenzyl)phenyl isocyanate		200 species: Cyprinus carpio (Common Carp)
9016-87-9	Polymethylene polyphenyl polyisocyanate		14 species: Cyprinus carpio (Common Carp)
2536-05-2	2,2'-methylenediphenyl diisocyanate		200 species: Cyprinus carpio (Common Carp)

12.4. Mobility in soil

Assessment/classification: not applicable / No data available

12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
101-68-8	4,4'-methylenediphenyl diisocyanate	—
5873-54-1	o-(p-isocyanatobenzyl)phenyl isocyanate	—
9016-87-9	Polymethylene polyphenyl polyisocyanate	—
2536-05-2	2,2'-methylenediphenyl diisocyanate	—
99-63-8	isophthaloyl dichloride	—

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste according to applicable legislation.

Waste treatment options

Appropriate disposal / Product:

Consult the appropriate authorities about waste disposal.

Appropriate disposal / Package:

Consult the appropriate authorities about waste disposal.

13.2. Additional information

Disposal: Do not allow to enter into surface water or drains.

SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

14.1. UN-No.

not relevant

14.2. UN proper shipping name

not relevant

14.3. Transport hazard class(es)

not relevant

14.4. Packing group

not relevant

14.5. Environmental hazards

not relevant

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14.6. Special precautions for user

not relevant

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not relevant

SECTION 15: Regulatory information

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

15.1.1. EU legislation

No data available

15.1.2. National regulations

[DE] National regulations

Technische Anleitung Luft (TA-Luft)

Anteil 1:

100 %

Water hazard class (WGK)

WGK:

1 - schwach wassergefährdend

Description:

Classification according to VwVwS, Annex 2.

Berufsgenossenschaftliche Vorschriften (BGV)

Berufsgenossenschaftliche Informationen (BGI) M 044

15.2. Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

15.3. Additional information

No data available

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SECTION 16: Other information

16.1. Indication of changes

- 1.1. Product identifier
- 1.2. Relevant identified uses of the substance or mixture and uses advised against
- 1.3. Details of the supplier of the safety data sheet
- 1.4. Emergency telephone number
- 10.1. Reactivity
- 10.2. Chemical stability
- 10.3. Possibility of hazardous reactions
- 10.4. Conditions to avoid
- 10.5. Incompatible materials
- 10.6. Hazardous decomposition products
- 10.7. Additional information
- 11.1. Information on toxicological effects
- 12.1. Toxicity
- 12.2. Persistence and degradability
- 12.3. Bioaccumulative potential
- 12.4. Mobility in soil
- 12.5. Results of PBT and vPvB assessment
- 12.6. Other adverse effects
- 13.1. Waste treatment methods
- 14.5. Environmental hazards
- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
- 15.2. Chemical Safety Assessment
- 16.1. Indication of changes
- 16.2. Abbreviations and acronyms
- 16.3. Key literature references and sources for data
- 16.4. Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]
- 16.5. Relevant R-, H- and EUH-phrases (Number and full text)
- 16.6. Training advice
- 16.7. Additional information
- 2.1. Classification of the substance or mixture
- 2.2. Label elements
- 2.3. Other hazards
- 3.1. Substances
- 3.2. Mixtures
- 4.1. Description of first aid measures
- 4.2. Most important symptoms and effects, both acute and delayed
- 4.3. Indication of any immediate medical attention and special treatment needed
- 5.1. Extinguishing media
- 5.2. Special hazards arising from the substance or mixture
- 5.3. Advice for firefighters
- 6.1. Personal precautions, protective equipment and emergency procedures
- 6.2. Environmental precautions
- 6.3. Methods and material for containment and cleaning up
- 6.4. Reference to other sections
- 7.1. Precautions for safe handling
- 7.2. Conditions for safe storage, including any incompatibilities
- 7.3. Specific end use(s)
- 8.1. Control parameters
- 8.2. Exposure controls
- 9.1. Information on basic physical and chemical properties
- 9.2. Other information

16.2. Abbreviations and acronyms

No data available

16.3. Key literature references and sources for data

No data available

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16.4. Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

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

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

Hazard statements	
H312	Harmful in contact with skin.
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