

**BOSTIK PSR 40-03 BLACK**  
Supersedes Date: 26-Nov-2019

Revision date 19-Dec-2019  
Revision Number 1.03

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

### 1.1. Product Identifier

**Product Name** BOSTIK PSR 40-03 BLACK  
**Pure substance/mixture** Mixture

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

**Recommended use** Sealant.  
**Uses advised against** None known.

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

#### Company Name

Bostik SA  
420 rue d'Estienne d'Orves  
92700 Colombes  
FRANCE  
Tel: +33 (0)1 49 00 90 00

**E-mail address** SDS.box-EU@bostik.com

### 1.4. Emergency telephone number

**Emergency Telephone** No information available

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Not classified

### 2.2. Label Elements

Not classified

**Signal word**  
None

**Hazard statements**  
Not classified

#### **EU Specific Hazard Statements**

EUH204 - Contains isocyanates. May produce an allergic reaction  
EUH208 - Contains Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction  
EUH210 - Safety data sheet available on request

#### **Additional information**

Reserved for industrial and professional use.

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## 2.3. Other Hazards

No information available

**PBT and vPvB assessment**

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2. Mixtures

Chemical name	EC No.	CAS No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	REACH Registration Number
Xylene (reaction mass of ethylbenzene and xylene)	905-588-0	--	5 - <10	STOT SE 3 (H335) STOT RE 2 (H373) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Flam Liq. 3 (H226)	STOT RE 2 (H373):: C>=10%	01-2119488216-32-xxxx
Aromatic Polyisocyanate	-	53317-61-6	0.1- <1	Eye Irrit. 2 (H319) Skin Sens. 1 (H317)		Exempt
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	915-687-0	1065336-91-5	0.01 - <0.1	Skin Sens. 1A (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		01-2119491304-40-XXXX
4,4'-Methylenediphenyl diisocyanate	202-966-0	101-68-8	0.01 - <0.1	Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Resp. Sens. 1 (H334) Skin Sens. 1 (H317) Carc. 2 (H351) STOT SE 3	STOT SE 3 :: C>=5% Skin Irrit. 2 :: C>=5% Eye Irrit. 2 :: C>=5% Resp. Sens. 1 :: C>=0.1%	01-2119457014-47-XXXX

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				(H335) STOT RE 2 (H373)		
Toluene diisocyanate	247-722-4	26471-62-5	0.01 - <0.05	Acute Tox. 1 (H330) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Resp. Sens. 1 (H334) Skin Sens. 1 (H317) Carc. 2 (H351) STOT SE 3 (H335) Aquatic Chronic 3 (H412)	Resp. Sens. 1 :: C>=0.1%	01-2119454791- 34-XXXX

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

Note: ^ indicates not classified, however, the substance is listed in section 3 as it has an OEL

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

<b>General advice</b>	If medical advice is needed, have product container or label at hand. Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	Remove to fresh air. IF exposed or concerned: Get medical advice/attention.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.
<b>Skin contact</b>	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor.
<b>Ingestion</b>	Clean mouth with water. Do NOT induce vomiting. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person.

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

**Symptoms** No information available.

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

**Note to doctors** Treat symptomatically.

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Unsuitable extinguishing media</b>	Full water jet. Do not scatter spilled material with high pressure water streams.

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

**Specific hazards arising from the chemical** Thermal decomposition can lead to release of toxic and corrosive gases/vapours.

**Hazardous combustion products** Carbon monoxide. Carbon dioxide (CO<sub>2</sub>).

## 5.3. Advice for firefighters

**Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## **SECTION 6: Accidental release measures**

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

**Personal precautions** Ensure adequate ventilation. Avoid contact with skin, eyes or clothing.

**Other information** Ventilate the area. Prevent further leakage or spillage if safe to do so.

**For emergency responders** Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

**Environmental precautions** Do not flush into surface water or sanitary sewer system. Do not allow to enter into soil/subsoil. See Section 12 for additional Ecological Information.

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

**Methods for containment** Do not scatter spilled material with high pressure water streams.

**Methods for cleaning up** Take up mechanically, placing in appropriate containers for disposal.

### 6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

**Advice on safe handling** Ensure adequate ventilation. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Take off all contaminated clothing and wash it before reuse.

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

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place. Keep away from food, drink and animal feedingstuffs.

### 7.3. Specific end use(s)

**Specific Use(s)**  
Sealant.

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

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Other information Observe technical data sheet.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### Exposure Limits

Only European Community Occupational Exposure Limits will be shown in this document. Please refer to regional SDS for further information.

Chemical name	European Union
Xylene (reaction mass of ethylbenzene and xylene) --	TWA: 50 ppm TWA: 221 mg/m <sup>3</sup> STEL: 100 ppm STEL: 442 mg/m <sup>3</sup> S*

Derived No Effect Level (DNEL) No information available

#### Derived No Effect Level (DNEL) Xylene (reaction mass of ethylbenzene and xylene) (--)

Type	worker Long term Systemic health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	221 mg/m <sup>3</sup>

Type	worker Long term Local health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	221 mg/m <sup>3</sup>

Type	worker Short term Local health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	442 mg/m <sup>3</sup>

Type	worker Long term Systemic health effects
Exposure route	Dermal
Derived No Effect Level (DNEL)	212 mg/kg bw/d

#### Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (1065336-91-5)

4,4'-Methylenediphenyl diisocyanate (101-68-8)	
Type	worker Short term Systemic health effects
Exposure route	Dermal
Derived No Effect Level (DNEL)	50 mg/kg bw/d

Type	worker Short term Systemic health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	0.1 mg/m <sup>3</sup>

Type	worker Short term Local health effects
Exposure route	Dermal
Derived No Effect Level (DNEL)	28700 µg/cm <sup>2</sup>

Type	worker Short term Local health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	0.1 mg/m <sup>3</sup>

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Type	worker Long term Systemic health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	0.05 mg/m <sup>3</sup>

Type	worker Long term Local health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	0.05 mg/m <sup>3</sup>

## Derived No Effect Level (DNEL) Xylene (reaction mass of ethylbenzene and xylene) (--)

Type	Consumer Long term Systemic health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	65.3 mg/m <sup>3</sup>

Type	Consumer Short term Systemic health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	260 mg/m <sup>3</sup>

Type	Consumer Long term Local health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	65.3 mg/m <sup>3</sup>

Type	Consumer Short term Local health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	260 mg/m <sup>3</sup>

Type	Consumer Long term Systemic health effects
Exposure route	Dermal
Derived No Effect Level (DNEL)	125 mg/kg bw/d

Type	Consumer Long term Systemic health effects
Exposure route	Oral
Derived No Effect Level (DNEL)	12.5 mg/kg bw/d

## 4,4'-Methylenediphenyl diisocyanate (101-68-8)

Type	Consumer Short term Systemic health effects
Exposure route	Dermal
Derived No Effect Level (DNEL)	25 mg/kg bw/d

Type	Consumer Short term Systemic health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	0.05 mg/m <sup>3</sup>

Type	Consumer Short term Systemic health effects
Exposure route	Oral
Derived No Effect Level (DNEL)	20 mg/kg bw/d

Type	Consumer Short term Local health effects
Exposure route	Dermal
Derived No Effect Level (DNEL)	17200 µg/cm <sup>2</sup>

Type	Consumer Short term Local health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	0.05 mg/m <sup>3</sup>

Type	Consumer Long term Systemic health effects
Exposure route	Inhalation

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Derived No Effect Level (DNEL)	0.025 mg/m <sup>3</sup>
Type	Consumer Long term Local health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	0.025 mg/m <sup>3</sup>

**Predicted No Effect Concentration (PNEC)** No information available.

<b>Predicted No Effect Concentration (PNEC)</b>	
<b>Xylene (reaction mass of ethylbenzene and xylene) (--)</b>	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.327 mg/l
Marine water	0.327 mg/l
Microorganisms in sewage treatment	6.58 mg/l
Freshwater sediment	12.46 mg/kg dry weight
Soil	2.31 mg/kg dry weight

<b>4,4'-Methylenediphenyl diisocyanate (101-68-8)</b>	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	1 mg/l
Marine water	0.1 mg/l
Soil	1 mg/kg dry weight
Sewage treatment plant	1 mg/l
Freshwater - intermittent	10 mg/l

<b>Toluene diisocyanate (26471-62-5)</b>	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.013 mg/l
Marine water	0.00125 mg/l
Microorganisms in sewage treatment	>1 mg/l
Soil	>1 mg/kg dry weight

## 8.2. Exposure controls

**Engineering controls** Ensure adequate ventilation, especially in confined areas.

### Personal Protective Equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles). Eye protection must conform to standard EN 166

**Hand protection** Nitrile rubber. Butyl rubber. Glove thickness > 0.4 mm. The breakthrough time of the gloves depends on the material and the thickness as well as the temperature. The breakthrough time for the mentioned glove material is in general greater than 60 min. Gloves must conform to standard EN 374

**Skin and body protection** None under normal use conditions.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Recommended filter type:** Organic gases and vapours filter conforming to EN 14387. Wear a respirator conforming to EN 140 with Type A/P2 filter or better.

**Environmental exposure controls** Do not allow uncontrolled discharge of product into the environment.

## SECTION 9: Physical and chemical properties

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

**Physical state** Solid

**Appearance** Paste

**Colour** Black

**Odour** Characteristic

**Odour threshold** No information available

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<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	Not applicable .	
Melting point / freezing point	No data available	
Boiling point / boiling range	No data available	
Flash point	> 61 °C	
Evaporation rate	No data available	
Flammability (solid, gas)	Not applicable for liquids .	
Flammability Limit in Air		
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapour pressure	No data available	
Vapour density	No data available	
Relative density	No data available	
Water solubility	Immiscible in water	
Solubility(ies)	No data available	
Partition coefficient	No data available	
Autoignition temperature	No data available	
Decomposition temperature	No data available	
Kinematic viscosity	No data available	
Dynamic viscosity	600 000 mPa s	@ 20 °C
Explosive properties	No data available	
Oxidising properties	No data available	

## 9.2. Other information

Solid content (%)	No information available
Softening Point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density	1.23 g/cm <sup>3</sup>
Bulk density	No information available

## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

Reactivity No information available.

### 10.2. Chemical stability

Stability Stable under normal conditions.

#### Explosion Data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

### 10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

### 10.5. Incompatible materials

Incompatible materials None known based on information supplied.

### 10.6. Hazardous decomposition products



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**Hazardous decomposition products** None under normal use conditions. Stable under recommended storage conditions.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Information on likely routes of exposure

##### Product Information

**Inhalation** Based on available data, the classification criteria are not met.  
**Eye contact** Based on available data, the classification criteria are not met.  
**Skin contact** Causes mild skin irritation.  
**Ingestion** Based on available data, the classification criteria are not met.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

#### Numerical measures of toxicity

##### Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (dermal)** 12,109.30 mg/kg  
**ATEmix (inhalation-dust/mist)** 61.55 mg/l

##### Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Xylene (reaction mass of ethylbenzene and xylene) --	=3500 mg/kg (Rattus)	> 1700 mg/kg (Oryctolagus cuniculus) > 4350 mg/kg (Oryctolagus cuniculus)	=>47635 mg/L (Rattus) 4 h = >5000 ppm (Rattus) 4 h
Aromatic Polyisocyanate 53317-61-6	LD50 >2000 mg/Kg (Rattus)		LC50 >3.820 mg/L (Rattus) 4h dust/mist
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate 1065336-91-5	LD50 = 3230 mg/Kg (Rat)	LD50 >3170 mg/Kg (Rat)	
4,4'-Methylenediphenyl diisocyanate 101-68-8	=31600 mg/kg (Rattus) = 9200 mg/kg (Rattus)	LD 50 > 9400 mg/kg (Oryctolagus cuniculus) OECD 402	=1.5 mg/L (Rattus) 4 h
Toluene diisocyanate 26471-62-5	=3060 mg/kg (Rattus)	= 10000 mg/kg (Oryctolagus cuniculus)	=0.107 mg/L (Rattus) 4 h (Vapour)

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

**Serious eye damage/eye irritation** Based on available data, the classification criteria are not met.

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**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

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

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	European Union
4,4'-Methylenediphenyl diisocyanate 101-68-8	Carc. 2
Toluene diisocyanate 26471-62-5	Carc. 2

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

**STOT - single exposure** Based on available data, the classification criteria are not met.

**STOT - repeated exposure** Based on available data, the classification criteria are not met.

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

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to Micro-organisms	Crustacea	M-Factor	M-Factor (long-term)
Xylene (reaction mass of ethylbenzene and xylene) --	-	-	EC50 = 0.0084 mg/L 24 h	-		
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate 1065336-91-5	-	LC50 (96h) =0.9 mg/L	-	-		
4,4'-Methylenediphenyl diisocyanate 101-68-8	ErC50 (72h) >1640 mg/L Algae (scenedesmus subspicatus) (OECD 201)	>1000 mg/l (Danio rerio)	-	EC50 (24H) >1000 mg/L Daphnia magna		

### 12.2. Persistence and degradability

**Persistence and degradability** No information available.

## Component Information

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4,4'-Methylenediphenyl diisocyanate (101-68-8)			
Method	Exposure time	Value	Results
OECD Test No. 302C: Inherent Biodegradability: Modified MITI Test (II)	28 days	0% biodegradation	Not readily biodegradable

## 12.3. Bioaccumulative potential

**Bioaccumulation** There is no data for this product.

## Component Information

Chemical name	Partition coefficient	Bioconcentration factor (BCF)
Xylene (reaction mass of ethylbenzene and xylene) --	3.15	15
4,4'-Methylenediphenyl diisocyanate 101-68-8	4.51	200
Toluene diisocyanate 26471-62-5	-	5

## 12.4. Mobility in soil

**Mobility in soil** No information available.

## 12.5. Results of PBT and vPvB assessment

### PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate 1065336-91-5	The substance is not PBT / vPvB
4,4'-Methylenediphenyl diisocyanate 101-68-8	The substance is not PBT / vPvB
Toluene diisocyanate 26471-62-5	The substance is not PBT / vPvB

## 12.6. Other adverse effects

**Other adverse effects** No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

<b>Waste from residues/unused products</b>	Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.
<b>Contaminated packaging</b>	Do not reuse empty containers. Handle contaminated packages in the same way as the product itself.
<b>European Waste Catalogue</b>	08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances
<b>Other information</b>	Waste codes should be assigned by the user based on the application for which the product was used.

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## SECTION 14: Transport information

### Land transport (ADR/RID)

14.1 UN Number	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing Group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special Provisions	None

### IMDG

14.1 UN number	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Marine Pollutant	Np
14.6 Special Provisions	None
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable

### Air transport (ICAO-TI / IATA-DGR)

14.1 UN number	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special Provisions	None

## Section 15: REGULATORY INFORMATION

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

#### European Union

#### Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

##### **SVHC: Substances of Very High Concern for Authorisation:**

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

##### **EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction**

This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

##### **Substance subject to authorisation per REACH Annex XIV**

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

##### **Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not applicable

##### **Persistent Organic Pollutants**

Not applicable

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## National Regulations

### France

#### Occupational Illnesses (R-463-3, France)

Chemical name	French RG number
Xylene (reaction mass of ethylbenzene and xylene) --	RG 4bis, RG 84
4,4'-Methylenediphenyl diisocyanate 101-68-8	RG 62
Toluene diisocyanate 26471-62-5	RG 62

### Germany

#### Ordinance on Industrial Safety and Health - Germany - BetrSichV

No flammable liquids in accordance with BetrSichV

Water hazard class (WGK) WGK 2

### Netherlands

#### List of Carcinogenic, mutagenic and reproductive toxin substances in accordance with Inspectorate SZW (Netherlands)

Chemical name	Netherlands
Xylene (reaction mass of ethylbenzene and xylene) --	Development (Category 2)

## 15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture

## **SECTION 16: Other information**

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 3

H226 - Flammable liquid and vapour  
H304 - May be fatal if swallowed and enters airways  
H312 - Harmful in contact with skin  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation  
H330 - Fatal if inhaled  
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  
H400 - Very toxic to aquatic life  
H410 - Very toxic to aquatic life with long lasting effects  
H412 - Harmful to aquatic life with long lasting effects

#### **Legend**

SVHC: Substances of Very High Concern for Authorisation:

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**Legend** SECTION 8: Exposure controls/personal protection  
TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)  
Ceiling Maximum limit value \* Skin designation  
PBT Persistent, Bioaccumulative, and Toxic (PBT) Chemicals  
STOT RE Specific target organ toxicity - Repeated exposure  
STOT SE Specific target organ toxicity - Single exposure  
EWC: European Waste Catalogue

## Key literature references and sources for data

No information available

**Prepared By** Product Safety & Regulatory Affairs

**Revision date** 19-Dec-2019

## Indication of changes

**Revision note** Not applicable.

**Training Advice** No information available

**Further information** No information available

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

## Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**