

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008
This SDS is for generic information purposes and does not reflect required country specific
information for OEL

POLYFLEX 452 BLACK

Supercedes Date: 02-Jun-2020

Revision date 17-Dec-2020 Revision Number 2

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

1.1. Product Identifier

Product Name POLYFLEX 452 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

Den Braven France SARL Z.I. du Meux - B.P. 20114 60881 Le Meux Cedex France

Tel: + 33 344 91 68 68

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

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

EUH204 - Contains isocyanates. May produce an allergic reaction

2.3. Other Hazards

No information available

Europe - BE Page 1/14

Revision date 17-Dec-2020 Supercedes Date: 02-Jun-2020 **Revision Number** 2

PBT & vPvB

POLYFLEX 452 BLACK

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

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] | , | REACH Registration Number |
|---|-----------|------------------|-------------|---|--|---------------------------------|
| Xylene (reaction mass of ethylbenzene and xylene) | 905-588-0 | RR-45541-4 | 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) Aquatic Chronic 3 (H412) | 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) | | [7] |
| Reaction mass of Bis(1,2,2,6,6-pentameth yl-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 (H335) STOT RE 2 (H373) | 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 |

Europe - BE Page 2/14

POLYFLEX 452 BLACK
Supercedes Date: 02-Jun-2020
Revision Number 2

| Toluene diisocyanate | 247-722-4 | 26471-62-5 | 0.01 - <0.05 | Acute Tox. 1 | Resp. Sens. 1 :: | 01-2119454791- |
|----------------------|-----------|------------|--------------|-----------------|------------------|----------------|
| _ | | | | (H330) | C>=0.1% | 34-XXXX |
| | | | | 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) | | |

NOTE [7] - No registration number is given for this substance because it is a polymer exempted from registration according to the provisions of Article 2(9) of REACH. All monomers or other substances within the polymer are registered or exempt from registration

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 >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice If medical advice is needed, have product container or label at hand. Show this safety

data sheet to the doctor in attendance.

Inhalation Remove to fresh air. IF exposed or concerned: Get medical advice/attention.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper

eyelids. Consult a doctor.

Skin contactWash skin with soap and water. In the case of skin irritation or allergic reactions see a

doctor.

Ingestion 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 Prolonged contact may cause redness and irritation.

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

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Unsuitable extinguishing media Full water jet. Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Europe - BE Page 3/14

Supercedes Date: 02-Jun-2020 **Revision Number** 2

chemical

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

Revision date 17-Dec-2020

Hazardous combustion products

Carbon monoxide. Carbon dioxide (CO2). Hydrocarbons. Nitrogen oxides (NOx).

Aldehydes. Hydrochloric acid. Sulphur oxides.

5.3. Advice for firefighters

POLYFLEX 452 BLACK

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.

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

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

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ensure adequate ventilation. Use personal protective equipment as required. Avoid Advice on safe handling

contact with skin, eyes or clothing.

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink General hygiene considerations

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

Protect from moisture. **Storage Conditions**

7.3. Specific end use(s)

Specific Use(s)

Sealant.

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

Other information Observe technical data sheet.

Europe - BE Page 4/14

POLYFLEX 452 BLACK
Supercedes Date: 02-Jun-2020
Revision Number 2

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 |
| RR-45541-4 | TWA: 221 mg/m ³ |
| | STEL: 100 ppm |
| | STEL: 442 mg/m ³ |
| | S* |

Derived No Effect Level (DNEL) No information available

| Derived No Effect Level (DN | EL) | | |
|--|----------------------------|--------------------------------|---------------|
| Xylene (reaction mass of eth | nylbenzene and xylene) (RR | -45541-4) | |
| Туре | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| worker Long term Systemic health effects | Inhalation | 221 mg/m³ | |
| worker Long term Local health effects | Inhalation | 221 mg/m³ | |
| worker Short term Local health effects | Inhalation | 442 mg/m³ | |
| worker Long term Systemic health effects | Dermal | 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 diiso | ocyanate (101-68-8) | | |
| Туре | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| worker Short term Systemic health effects | Dermal | 50 mg/kg bw/d | |
| worker Short term Systemic health effects | Inhalation | 0.1 mg/m³ | |
| worker Short term Local health effects | Dermal | 28700 μg/cm² | |
| worker Short term Local health effects | Inhalation | 0.1 mg/m³ | |
| worker Long term Systemic health effects | Inhalation | 0.05 mg/m³ | |
| worker Long term Local health effects | Inhalation | 0.05 mg/m³ | |

Toluene diisocyanate (26471-62-5)

Europe - BE Page 5 / 14

POLYFLEX 452 BLACK
Supercedes Date: 02-Jun-2020
Revision Number 2

| Туре | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
|---|----------------|--------------------------------|---------------|
| worker Long term Systemic health effects | Inhalation | 0.035 mg/m³ | |
| worker Short term Systemic health effects | Inhalation | 0.14 mg/m³ | |
| worker Long term Local health effects | Inhalation | 0.035 mg/m³ | |
| worker Short term Local health effects | Inhalation | 0.14 mg/m³ | |

| Derived No Effect Level (DNEL) | | | | | |
|---|--|--------------------------------|---------------|--|--|
| Xylene (reaction mass of eth | Xylene (reaction mass of ethylbenzene and xylene) (RR-45541-4) | | | | |
| Туре | Exposure route | Derived No Effect Level (DNEL) | Safety factor | | |
| Consumer Long term Systemic health effects | Inhalation | 65.3 mg/m ³ | | | |
| Consumer Short term Systemic health effects | Inhalation | 260 mg/m³ | | | |
| Consumer Long term Local health effects | Inhalation | 65.3 mg/m ³ | | | |
| Consumer Short term Local health effects | Inhalation | 260 mg/m³ | | | |
| Consumer Long term Systemic health effects | Dermal | 125 mg/kg bw/d | | | |
| Consumer Long term Systemic health effects | Oral | 12.5 mg/kg bw/d | | | |

| 4,4'-Methylenediphenyl diisocyanate (101-68-8) | | | |
|--|----------------|--------------------------------|---------------|
| Туре | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| Consumer | Dermal | 25 mg/kg bw/d | |
| Short term | | | |
| Systemic health effects | | | |
| Consumer | Inhalation | 0.05 mg/m ³ | |
| Short term | | | |
| Systemic health effects | | | |
| Consumer | Oral | 20 mg/kg bw/d | |
| Short term | | | |
| Systemic health effects | | | |
| Consumer | Dermal | 17200 μg/cm ² | |
| Short term | | | |
| Local health effects | | | |
| Consumer | Inhalation | 0.05 mg/m ³ | |
| Short term | | | |
| Local health effects | | | |
| Consumer | Inhalation | 0.025 mg/m ³ | |
| Long term | | - | |
| Systemic health effects | | | |
| Consumer | Inhalation | 0.025 mg/m ³ | |

Europe - BE Page 6 / 14

POLYFLEX 452 BLACK
Supercedes Date: 02-Jun-2020
Revision Number 2

| Long term | | |
|----------------------|--|--|
| Local nealth effects | | |

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

| Predicted No Effect Concentration (PNEC) | |
|---|--|
| Xylene (reaction mass of ethylbenzene and xylene) (RF | R-45541-4) |
| 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 |

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

| Toluene diisocyanate (26471-62-5) | |
|------------------------------------|--|
| 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 Suitable protective clothing.

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

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

and vapours filter conforming to EN 14387.

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical stateSolidAppearancePasteColourBlackOdourCharacteristic

Odour threshold No information available

Property Values Remarks • Method

pH Not applicable .

Melting point / freezing point No data available Not applicable . °C

Europe - BE Page 7/14

POLYFLEX 452 BLACK
Supercedes Date: 02-Jun-2020
Revision Number 2

Flash point > 61 °C
Evaporation rate No data available
Flammability (solid, gas) No data available

Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

No data available Vapour pressure Relative vapour density No data available Relative density No data available No data available Water solubility Solubility(ies) No data available **Partition coefficient** No data available **Autoignition temperature** No data available **Decomposition temperature** No data available Kinematic viscosity 600000 mm²/s 600000 mPas Dynamic viscosity No data available **Explosive properties** Oxidising properties No data available

9.2. Other information

Solid content (%)

VOC Content (%)

No information available

No information available

Density 1.23 g/cm³

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 None.

impact

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 Protect from moisture. Product cures with moisture.

10.5. Incompatible materials

Incompatible materialsNone known based on information supplied.

10.6. Hazardous decomposition products

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

products

SECTION 11: Toxicological information

Europe - BE Page 8/14

POLYFLEX 452 BLACK
Supercedes Date: 02-Jun-2020
Revision Number 2

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 Specific test data for the substance or mixture is not available. 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 Prolonged contact may cause redness and irritation.

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-vapour) 169.250 mg/l

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|--|--|---|--|
| Xylene (reaction mass of ethylbenzene and xylene) RR-45541-4 | =3500 mg/kg (Rattus) | >10000 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-pi peridyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperi dyl 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 Classification based on data available for ingredients. May cause skin irritation.

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

| Component Information | | | | | |
|---------------------------|----------------------|----------------|----------------|---------------|--------------|
| 4,4'-Methylenediphenyl di | isocyanate (101-68-8 | 3) | | | |
| Method | Species | Exposure route | Effective dose | Exposure time | Results |
| OECD Test No. 405: | Rabbit | Eye | 0.1 mL | 24 hours | Non-irritant |
| Acute Eye | | | | | |
| Irritation/Corrosion | | | | | |

Europe - BE Page 9/14

POLYFLEX 452 BLACK Supercedes Date: 02-Jun-2020 Revision date 17-Dec-2020 Revision Number 2

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

| Component Information | | | | |
|-------------------------------------|------------|----------------|-------------|--|
| 4,4'-Methylenediphenyl diisocyanate | (101-68-8) | | | |
| Method | Species | Exposure route | Results | |
| OECD GD 39 | Rat | Inhalation | Sensitizing | |

| Toluene diisocyanate (26471-62-5) | | | | |
|-----------------------------------|---------|----------------|-------------|--|
| Method | Species | Exposure route | Results | |
| OECD Test No. 429: Skin | Mouse | Dermal | sensitising | |
| Sensitisation: Local Lymph Node | | | | |
| Assay | | | | |

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

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

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

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

| Component Information | | | | |
|--|---------|------------------------------------|--|--|
| 4,4'-Methylenediphenyl diisocyanate (101-68-8) | | | | |
| Method | Species | Results | | |
| OECD Test No. 453: Combined Chronic | Rat | Limited evidence of a carcinogenic | | |
| Toxicity/Carcinogenicity Studies | | effect | | |

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 exposureBased 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 | Fish | Toxicity to | Crustacea | M-Factor | M-Factor |
|-----------------------|-----------------|---------------|----------------|---------------|----------|-------------|
| | plants | | microorganisms | | | (long-term) |
| Xylene (reaction mass | EC50 (72hr) 2.2 | LC50(96h) 2.6 | EC50 = 0.0084 | LC50(24h) 1 | | |
| of ethylbenzene and | mg/l | mg/l | mg/L 24 h | mg/l (Daphnia | | |
| xylene) | (Selenastrum | (Oncorhynchus | - | magna-OECD | | |
| RR-45541-4 | capricornutum) | mykiss-OECD | | 202) | | |

Europe - BE Page 10 / 14

POLYFLEX 452 BLACK
Supercedes Date: 02-Jun-2020
Revision Number 2

| | | 203) | | | |
|------------------------|--------------|-----------------|---|---------------|--|
| Reaction mass of | - | LC50 (96h) =0.9 | - | - | |
| Bis(1,2,2,6,6-pentamet | | mg/L | | | |
| hyl-4-piperidyl) | | | | | |
| sebacate and Methyl | | | | | |
| 1,2,2,6,6-pentamethyl- | | | | | |
| 4-piperidyl sebacate | | | | | |
| 1065336-91-5 | | | | | |
| 4,4'-Methylenediphenyl | ErC50 (72h) | >1000 mg/l | - | EC50 (24H) | |
| diisocyanate | >1640 mg/L | (Danio rerio) | | >1000 mg/L | |
| 101-68-8 | Algae | | | Daphnia magna | |
| | (scenedesmus | | | | |
| | subspicatus) | | | | |
| | (OECD 201) | | | | |

12.2. Persistence and degradability

Persistence and degradability No information available.

| Component Information | | | | |
|---------------------------------|---------------|----------------|------------------|--|
| Aromatic Polyisocyanate (53317- | 61-6) | | | |
| Method | Exposure time | Value | Results | |
| OECD Test No. 301F: Ready | | biodegradation | 34 % Not readily | |
| Biodegradability: Manometric | | | biodegradable | |
| Respirometry Test (TG 301 F) | | | | |

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

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) RR-45541-4 | 3.15 | 25.9 |
| 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 |
|--|---------------------------------|
| Xylene (reaction mass of ethylbenzene and xylene) RR-45541-4 | The substance is not PBT / vPvB |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | The substance is not PBT / vPvB |
| 1065336-91-5 | |

Europe - BE Page 11/14

POLYFLEX 452 BLACK
Supercedes Date: 02-Jun-2020
Revision Number 2

| 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

Waste from residues/unused products

Dispose of contents/container in accordance with local, regional, national, and

international regulations as applicable.

Contaminated packaging Do not reuse empty containers. Handle contaminated packages in the same way as the

product itself.

European Waste Catalogue 08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

Other information Waste codes should be assigned by the user based on the application for which the

product was used.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1 UN number or ID numberNot regulated14.2 Proper Shipping NameNot regulated14.3 Transport hazard class(es)Not regulated14.4 Packing groupNot regulated14.5 Environmental hazardsNot applicable14.6 Special ProvisionsNone

IMDG

14.1 UN number or ID numberNot regulated14.2 Proper Shipping NameNot regulated14.3 Transport hazard class(es)Not regulated14.4 Packing groupNot regulated

14.5 Marine pollutant NP14.6 Special Provisions None

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code Not applicable

Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID numberNot regulated14.2 Proper Shipping NameNot regulated14.3 Transport hazard class(es)Not regulated14.4 Packing groupNot regulated14.5 Environmental hazardsNot applicable14.6 Special ProvisionsNone

Section 15: REGULATORY INFORMATION

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

European Union

Europe - BE Page 12/14

Revision date 17-Dec-2020

Supercedes Date: 02-Jun-2020 Revision Number 2

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 >=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

POLYFLEX 452 BLACK

Not applicable

National regulations

<u>France</u>

Occupational Illnesses (R-463-3, France)

| Chemical name | French RG number |
|---|------------------|
| Xylene (reaction mass of ethylbenzene and xylene) | RG 4bis,RG 84 |
| RR-45541-4 | |
| 4,4'-Methylenediphenyl diisocyanate | RG 62 |
| 101-68-8 | |
| Toluene diisocyanate | RG 62 |
| 26471-62-5 | |

Germany

Ordinance on Industrial Safety and Health - Germany - BetrSichV

No flammable liquids in accordance with BetrSichV

Water hazard class (WGK) obviously hazardous to water (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) |
| RR-45541-4 | |

Denmark

Norway

15.2. Chemical safety assessment

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

Europe - BE Page 13/14

POLYFLEX 452 BLACK
Supercedes Date: 02-Jun-2020
Revision date 17-Dec-2020
Revision Number 2

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

TWA TWA (time-weighted average)
STEL STEL (Short Term Exposure Limit)

Ceiling Ceiling Limit Value
* Skin designation

SVHC Substance(s) of Very High Concern

PBT Persistent, Bioaccumulative, and Toxic (PBT) Chemicals vPvB Very Persistent and very Bioaccumulative (vPvB) 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 17-Dec-2020

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

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End of Safety Data Sheet

Europe - BE Page 14/14