Document No. BL.SDS.v1.0

Safety Datasheet according to (EC) No. 1907/2006, as amended by Regulation (EC) No. 453/2010

Revision Date: 01/11/18

Python BL

| SECTION 1: Identification of the substance/mixture and of the company/under | taking |
|---|--|
| 1.1. Product Identifier | |
| Product name | Python BL |
| 1.2. Relevant identified uses of the substance or mixture and uses advised agai | inst |
| Description | Construction: sealant. |
| 1.3. Details of the supplier of the safety data sheet | |
| Company Address Web Telephone Fax Email Email address of the competent person | Python Adhesives Ltd Teardrop Centre, London Road, Swanley, BR8 8TS. www.pythonadhesives.co.uk 020 8778 9000 020 8768 7200 getagrip@pythonadhesives.co.uk getagrip@pythonadhesives.co.uk |
| 1.4. Emergency telephone number | |
| Emergency telephone number | 020 8778 9000 - 7.30am - 6.00pm Mon - Fri |
| SECTION 2: Hazards Identification | |
| 2.1. Classification of the substance or mixture | |
| 2.1.1. Classification - 1272/2008 | Eye Irrit. 2: H319; Skin Irrit. 2: H315; Resp. Sens. 1: H334; |
| 2.2. Label elements | |
| Hazard pictograms | |
| Signal Word | Danger |
| Hazard Statement | H319 Causes serious eye irritation. H315 Causes skin irritation. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| Precautionary Statement | P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P280 Wear protective gloves, protective clothing and eye protection/face protection. P284 Wear respiratory protection. P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P302 + P352 IF ON SKIN: Wash with plenty of water and soap. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical advice/attention. P501 Dispose of contents/container in accordance with local/regional/national/international regulation. |
| Supplemental information | Persons already sensitised to diisocyanates may develop allergic reactions when using this product. - Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type Al according to standard EN 14387) is used. |
| 2.3. Other hazards | • |
| Contains a sensitising substance. May produce an allergic reaction. | |
| Further information | |

GET A GRIP!

PYTHON ADHESIVES

Not applicable.

| SECTION 3: Composition/infor | mation on ingredient | s | | | | | | | | | | |
|--|--------------------------|---------------------|-----------------|--|--|--|---|--|--|--|--|--|
| 3.1. Substances | | | | | | | | | | | | |
| 3.2. Mixtures | | | | | | | | | | | | |
| Chemical Name | Index Number | CAS No. | EC No. | REACH Registration Number | Conc. (%w/w) | Classification | Remark | | | | | |
| 4,4'-methylenediphenyl diisocyanate | | 101-68-8 202-96 | | 0 01-2119457014-47 | 0.1% <c<1%< td=""><td>Carc 2 H351; Acute Tox. 4; H332 STOT RE 2; H373 Eye Irrit. 2; H319 STOT SE 3; H335 Skin Irrit. 2; H315 Resp. Sens. 1; H334 Skin Sens. 1; H317</td><td>UVCB</td></c<1%<> | Carc 2 H351; Acute Tox. 4; H332 STOT RE 2; H373 Eye Irrit. 2; H319 STOT SE 3; H335 Skin Irrit. 2; H315 Resp. Sens. 1; H334 Skin Sens. 1; H317 | UVCB | | | | | |
| xylene | | 1330-20-7 | 215-535- | 7 01-2119488216-32 | 1% <c<10%< td=""><td>Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Asp. Tox. 1; H304 STOT RE 2; H373 Eye Irrit. 2; H319 STOT SE 3; H335 Skin Irrit. 2; H315</td><td>Constituent</td></c<10%<> | Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Asp. Tox. 1; H304 STOT RE 2; H373 Eye Irrit. 2; H319 STOT SE 3; H335 Skin Irrit. 2; H315 | Constituent | | | | | |
| ethylbenzene | | 100-41-4 | 202-849- | 4 01-2119489370-35 | 1% <c<5%< td=""><td>Flam. Liq. 2; H225 Acute Tox. 4; H332 Asp. Tox. 1; H304 STOT RE 2; H373 Aquatic Chronic 3; H412</td><td>Constituent</td></c<5%<> | Flam. Liq. 2; H225 Acute Tox. 4; H332 Asp. Tox. 1; H304 STOT RE 2; H373 Aquatic Chronic 3; H412 | Constituent | | | | | |
| SECTION 4: First aid measures | | | | | | | | | | | | |
| General | 330103 | | | Check the vital functions. Uncons artificial respiration or oxygen. Ca breathing: half-seated. Victim in s aspiration pneumonia. Prevent co victim. Give psychological aid. Kee condition: doctor/hospital. | cious: maintain adequ rdiac arrest: perform hock: on his back witi oling by covering the ep the victim calm, av | iate airway and respiration resuscitation. Victim conso n legs slightly raised. Vomir victim (no warming up). Ke oid physical strain. Depend | . Respiratory arrest: cious with laboured ting: prevent asphyxia, eep watching the ling on the victim's | | | | | |
| Inhalation | | | | Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service. | | | | | | | | |
| Eye contact | | | | Rinse immediately with plenty of v | vater. Take victim to a | n ophthalmologist if irritat | ion persists. | | | | | |
| Skin contact | | | | Wash immediately with lots of wa | ter. Soap may be used | . Take victim to a doctor if | irritation persists. | | | | | |
| Ingestion | | | | Rinse mouth with water. Consult a | a doctor/medical serv | ice if you feel unwell. | | | | | | |
| 4.2. Most important symptoms | s and effects, both ac | ute and delayed | | | | | | | | | | |
| Inhalation | | | | ON CONTINUOUS EXPOSURE/CON | ITACT: Headache. Nau | sea. Dizziness. Narcosis. | | | | | | |
| Eye contact | | | | Irritating to eyes. | | | | | | | | |
| Skin contact | | | | Tingling/irritation of the skin. | | | | | | | | |
| Ingestion | | | | AFTER INGESTION OF HIGH QUANT | TITIES: Symptoms sim | ilar to those listed under ir | halation. | | | | | |
| SECTION 5: Firefighting measu | ires | | | | | | | | | | | |
| 5.1. Extinguishing media | | | | | | | | | | | | |
| Adapt extinguishing media to the | environment. | | | | | | | | | | | |
| 5.2. Special hazards arising fro | om the substance or r | nixture | | | | | | | | | | |
| On burning: release of toxic and c | orrosive gases/vapours | s (hydrogen chloric | de, sulphur oxi | des, carbon monoxide -carbon dic | xide | | | | | | | |
| 5.3. Advice for firefighters | | | | | | | | | | | | |
| Dilute toxic gases with water spra | y. Take account of toxic | c/corrosive precipi | tation water. | | | | | | | | | |

| SECTION 6: Accidental release m | easures | | | | | | | | |
|---|---------------------------|---------------------------------|--|----------------------|----------------|---|--|--|--|
| 6.1. Personal precautions, protec | tive equipment and | l emergency procedures | | | | | | | |
| No naked flames. | | | | | | | | | |
| 6.2. Environmental precautions | | | | | | | | | |
| Contain leaking substance. Use app | ropriate containment | to avoid environmental conta | mination. | | | | | | |
| 6.3. Methods and material for co | ntainment and clea | ning up | | | | | | | |
| Allow product to solidify and remove | e it by mechanical me | ans. Clean (treat) contaminate | ed surfaces with acetone. Wash (| clothing and equi | pment | after handling. | | | |
| 6.4. Reference to other sections | | | | | | | | | |
| See heading 13. | | | | | | | | | |
| SECTION 7: Handling and storage | ; | | | | | | | | |
| 7.1. Precautions for safe handling | ŗ | | | | | | | | |
| Keep away from naked flames/heat | . Gas/vapour heavier | than air at 20C. Observe very s | strict hygiene -avoid contact. Ke | ep container tight | tly clos | ed. | | | |
| 7.2. Conditions for safe storage, | including any incon | ıpatibilities | | | | | | | |
| 7.2.1 Safe storage requirements | | | Keep out of direct sunlight. Sto Max. storage time: 1 year(s) | rre in a dry area. S | itore at | room temperature. Meet the legal requirements. | | | |
| 7.2.2 Keep away from | | | Heat sources. | | | | | | |
| 7.3. Specific end use(s) | | | | | | | | | |
| If applicable and available, exposure | e scenarios are attach | ed in annex. See information s | supplied by the manufacturer. | | | | | | |
| SECTION 8: Exposure controls/p | ersonal protection | | | | | | | | |
| 8.1. Control parameters | | | | | | | | | |
| 8.1.1. Exposure Limit Values a) Occupational exposure limit values If limit values are applicable and available these will be listed below. | | | | | | | | | |
| Ethylbenzene | | | WEL 8-hr limit ppm: 100 WEL 15 min limit ppm: 125 | | WEL 8 WEL 1 | 3-hr limit mg/m3: 441 5-min limit mg/m3: 552 | | | |
| Isocyanates, all (as -NCO) Except m | ethyl isocyanate | | WEL 8-hr limit ppm: 0.02 | | WEL 1 | 5-min limit mg/m3: 0.07 | | | |
| Xylene, o-,m-,p- or mixed isomer | | | WEL 8-hr limit ppm: 50 WEL 15 min limit ppm: 100 | | WEL 8 WEL 1 | 3-hr limit mg/m3: 220 5-min limit mg/m3: 441 | | | |
| 8.1.2 Sampling methods | | | | | | | | | |
| b) National biological limit values If applicable and available it will be l | isted below. | | | | | | | | |
| 4,4-Methylene Bisphenyl Isocyanate | e (MDI) (Isocyanates) | | NIOSH | | 5521 | | | | |
| 4,4'-Methylenebis (phenylisocyanat | e) | | NIOSH | | 5525 | | | | |
| Ethyl Benzene (Hydrocarbons, Arom | atic) | | NIOSH | | 1501 | | | | |
| Ethyl Benzene | | | OSHA | | 1002 | | | | |
| Ethyl Benzene | | | OSHA | | 7 | | | | |
| Methylene Bisphenyl Isocyanate -(N | IDI) | | OSHA | | 18 | | | | |
| Methylene Bisphenyl Isocyanate (M | DI) | | OSHA | | 47 | | | | |
| Methylene Bisphenyl Isocyanate | | | OSHA | | 33 | | | | |
| Xylene (Hydrocarbons, aromatic) | | | NIOSH | | 1501 | | | | |
| Xylene (Volatile Organic compounds |) | | NIOSH | | 2549 | | | | |
| 8.1.3 Applicable limit values whe | n using the substar | ce or mixture as intended | | | | | | | |
| If limit values are applicable and ava | ailable these will be lis | sted below. If applicable and a | vailable it will be listed below. | | | | | | |
| 8.1.4 DNEL/PNEC values | | | Heat sources. | | | | | | |
| DNEL/DMEL - Workers | | | · | | | | | | |
| Chemical Name | Effect Level | Ţ | уре | Value | | Remark | | | |

| DNEL/DMEL - Workers | | | | | |
|--------------------------------|--------------------|---------------------------------------|--------------------|-------------------------|--------|
| Chemical Name | Effect Level | Туре | | Value | Remark |
| 4,4'-methylenediphenyl | DNEL | Long-term local effects inhalation | | 0.05 mg/m ³ | |
| diisocyanate | | Acute local effects inhalation | | 0.1 mg/m ³ | |
| xylene | DNEL | Long-term systemic effects inhalation | | 77 mg/m³ | |
| | | Acute systemic effects inhalation | | 289 mg/m ³ | |
| | | Acute local effects inhalation | | 289 mg/m ³ | |
| | | Long-term systemic effects dermal | | 180 mg/kg bw/day | |
| ethylbenzene | DNEL | Long-term systemic effects inhalation | | 77 mg/m ³ | |
| | | Acute local effects inhalation | | 283 mg/m ³ | |
| | | Long-term systemic effects inhalation | | 180 mg/kg bw/day | |
| DNEL/DMEL - General population | ĺ | | | | |
| Chemical Name | Effect Level | Туре | | Value | Remark |
| 4,4'-methylenediphenyl | DNEL | Long-term local effects inhalation | | 0.025 mg/m ³ | |
| | | Acute local effects inhalation | | 0.05 mg/m ³ | |
| xylene | DNEL | Long-term systemic effects inhalation | | 77 mg/m³ | |
| | | Acute systemic effects inhalation | | 289 mg/m ³ | |
| | | Acute local effects inhalation | | 289 mg/m ³ | |
| | | Long-term systemic effects dermal | | 180 mg/kg bw/day | |
| | | Long-term systemic effects oral | | 1.6 mg/kg bw/day | |
| ethylbenzene | DNEL | Long-term systemic effects inhalation | | 15 mg/m ³ | |
| | | Long-term systemic effects oral | | 1.6 mg/kg bw/day | |
| PNEC | | | | | |
| Chemical Name | Compartments | | Value | | Remark |
| 4,4'-methylenediphenyl | Fresh water | | 1 mg/l | | |
| diisocyanate | Marine water | | 0.1 mg/l | | |
| | Aqua (intermittent | releases) | 10 mg/l | | |
| | STP | | 1 mg/l | | |
| | Soil | | 1 mg/kg soil dw | | |
| xylene | Fresh water | | 0.327 mg/l | | |
| | Marine water | | 0.327 mg/l | | |
| | Aqua (intermittent | releases) | 0.327 mg/l | | |
| | STP | | 6.58 mg/l | | |
| | Fresh water sedim | ent | 12.46 mg/kg sedin | nent dw | |
| | Marine water sedir | nent | 12.46 mg/kg sedin | nent dw | |
| | Soil | | 2.31 mg/kg sedime | ent dw | |
| ethylbenzene | Fresh water | | 0.1 mg/l | | |
| | Marine water | | 0.01 mg/l | | |
| | Aqua (intermittent | releases) | 0.v1 mg/l | | |
| | STP | | 9.6 mg/l | | |
| | Fresh water sedim | ent | 13.7 mg/kg sedime | nt dw | |
| | Marine water sedir | nent | 1.37 mg/kg sedime | ent dw | |
| | Soil | | 2.68 mg/kg soil dv | I | |
| | Oral | | 0.02g/kg food | | |

| 8.2. Exposure controls | |
|--|--|
| The information in this section is a general description. If applicable and available, experient identified use. | osure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your |
| 8.2.1. Appropriate engineering controls | Keep away from naked flames/heat. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. |
| 8.2.2. Individual protection measures | Observe very strict hygiene - avoid contact. Keep container tightly closed. Do not eat, drink or smoke during work. |
| Eye / Face protection | Approved safety goggles. |
| Skin protection / Hand protection | Protective clothing / Gloves. |
| Respiratory protection | Wear gas mask with filter type A if conc. in air > exposure limit. |
| 8.2.3 Environmental exposure controls | See headings 6.2, 6.3 and 13 |
| SECTION 9: Physical and chemical properties | |
| 9.1. Information on basic physical and chemical properties | |
| Physical form Odour Odour threshold Colour Particle size Explosion limits Flammability Log Kow Dynamic viscosity Kinematic viscosity Melting point Boiling point Flash point Evaporation rate Relative vapour density Vapour pressure Solubility Relative density Decomposition temperature Auto-ignition temperature Explosive properties Oxidising properties Dxidising properties | Viscous. Solvent-like odour. No data available. Variable in colour, depending on the composition. No data available Not applicable. Not applicable (mixture) No data available. No data available. No data available. No data available. No data available. No data available. No data available. > 1 No data available. > 2 No data available. No chemical group associated with explosive properties. No chemical group associated with oxidising properties. No data available. |
| 9.2. Other information | 1 |
| Absolute density | 1300 kg/m ³ ; 20°C |
| SECTION 10: Stability and reactivity | |
| IV.I. REDUILIN | |
| No data available. | |
| IU.2. Chemical stability | |
| | |
| 10.3. Possibility of hazardous reactions | |
| No data available. | |
| 10.4. Conditions to avoid | |
| keep away trom naked tiames/heat. | |
| 10.5. Incompatible materials | |
| No data available. | |
| 10.6. Hazardous decomposition products | |
| On burning: release of toxic and corrosive gases/vapours (hydrogen chloride, sulphur o | xides, carbon monoxide -carbon dioxide). |

If applicable and available it will be listed below.

8.1.5 Control banding

| SECTION 11: Toxicologic | cal information | | | | | | | | | | | | |
|--|------------------------|------------------------------|---------------------------|------|----------------------|-------------|------------------|-----|--------------------------|------------------|------------------------|------|--------|
| 11.1. Information on tox | icological effects | | | | | | | | | | | | |
| 11.1.1 Test results | | | | | | | | | | | | | |
| Acute toxicity | | | | | | | | | | | | | |
| Python BL | | | | No | (test)data o | on the mixt | ure availab | le. | | | | | |
| Chemical Name | Route of exposure | Parameter | Method | | Value | | Exposure time | | Species | | Value determinatio | on | Remark |
| 4,4'-methylenediphenyl diisocyanate | Oral | LD50 | Equivalent to OECD 401 | | >7616 mg/kg | | | | Rat (female) | | Read-across | | |
| | Dermal | LD50 | Equivalent to OECD 402 | | > 9400 mg/kg bw | | 24 h | | Rabbit (male/ female) | | Read-across | | |
| | Dermal | Percutaneous absorption rate | EPA OPPTS 870.7600 | | 0.9% | | 8 h | | Rat (male) | | Experimental value | | |
| | Inhalation (aerosol) | LC50 | Equivalent to OECD 403 | | 0.49 mg/l air | | 4 h | | Rat (male/fema | | Read-across | | |
| Chemical Name | Route of exposure | Parameter | Method | | Value | Value | | 9 | Species | | Value determinatio | on | Remark |
| xylene | Oral | LD50 | 0ECD 401 | | 3523 mg/ | kg bw | | | Rat (male) | | Experimental value | | |
| | Dermal | LD50 | 0ECD 401 | | > 4000 m | 0 mg/kg bw | | | Rat (fema | le) | Experimental value | | |
| | Dermal | LD50 | 0ECD 402 | | > 4200 m | g/kg bw | 4 h | | Rabbit (m | ale) | Experimental value | | |
| | Inhalation (vapours) | LC50 | 0ECD 403 | | 27.57 mg/l air | | 4 h | | Rat (male) |) | Experimental value | | |
| Chemical Name | Route of exposure | Parameter | Method | | Value | | Exposure time | | Species | | Value determination | | Remark |
| ethylbenzene | Oral | LD50 | | | 3500 mg/kg | | | | Rat (male/female) | |) Experimental value | | |
| | Dermal | LD50 | | | 15432 mg/kg | | 24 h | | Rabbit (male) | | Experimental value | | |
| | Inhalation | LC50 | | | 1432 ppm | | 4 h | | Mouse (m | ale) | Experimental value | | |
| Judgement is based on th | e relevant ingredients | | 1 | | 1 | | | | | | 1 | | |
| Conclusion | | | | No | t classified f | or acute to | oxicity. | | | | | | |
| Corrosion/irritation | | | | No | (test)data o | on the mixt | ure availab | le. | | | | | |
| Chemical Name | Route of exposure | Result | Method | Expo | posure time Time Poi | | int | Spe | ecies | Value determi | nation | Rema | ırk |
| ethylbenzene | Eye | Slightly irritating | | | | | | Rab | bit | Experim | ental value | | |
| | Eye | Irritating | | | | 24 h | | Hun | nan | Weight o | of evidence | | |
| | Skin | Irritating | 0ECD 404 | 4 h | | 24; 48; 7 | 2 hours | Rab | bit | Read-ac | ross | | |
| | Skin | Irritating | | | | 4 h | | Hun | nan | Weight o | of evidence | | |

 $4\,\mathrm{h}$

Human

Weight of evidence

Inhalation

Irritating

| Chemical Name | Route of exposure | Result | | Method | Expo | osure time | Time Point | Species | Value determi | nation | Remark |
|--|-------------------------|---------------|-----------------------------|-------------------|------------------------------|--|---|--------------------------------|------------------------|------------------------|------------------------|
| xylene | Eye | Moderately | irritating | 0ECD 405 | | | 24; 48; 72 hours | Rabbit | Experim | ental value | |
| | Skin | Moderately | irritating | | | | 24; 72 hours | Rabbit | Experim | ental value | |
| | Inhalation (vapours) | Moderately | irritating | | 4 h | | | Human | | | |
| | | Irritating; S | STOT SE cat.3 | | | | | | Literatu | re study | |
| Chemical Name | Route of exposure | Result | | Method | Expo | osure time | Time Point | Species | Value determi | nation | Remark |
| ethylbenzene | Еуе | Slightly irri | tating | | | | 7 days | Rabbit | Experim | ental value | |
| | Skin | Moderately | irritating | | 24 h | | | Rabbit | Experim | ental value | |
| Classification is based on | the relevant ingre | dients | / | | | | | | | · · · | |
| Conclusion | | | | | Causes Causes Not clas | skin irritation serious eye i ssified as irrit | n. rritation. cating to the respirato | ry system | | | |
| Specific target organ to | xicity | | | | | | | | | | |
| Python BL | | | | | No (test | t)data on the | mixture available. | | | | |
| Chemical Name | Route of exposure | Parameter | Method | Value | | Organ | Effect | Exposure | e time | Species | Value determination |
| 4,4'-methylenediphenyl diisocyanate | Inhalation (aerosol) | LOAEC | Other | 0.23 mg/ | /m³ air | Lungs | Lung tissue affection/ degeneration | <= 104 v (17h/day, week) | veeks 5 days/ | Rat (female) | Experimental value |
| xylene | Oral (stomach tube) | LOAEL | Equivalent to OECD 408 | 150 mg/k day | kg/bw/ | Liver | Weight gain | 90 day(s) |) | Rat (male) | Experimental value |
| | Oral | NOAEL | Other | 250 mg/ bw/day | kg/ | | No effect | 103 week day, 5 da | s (6h/ ys/week) | Rat (male/ female) | Experimental value |
| | Inhalation (vapours) | NOAEC | Subchronic toxicity test | > 3515 m | ıg/m³ | | No effect | 13 weeks 5 days/w | (6h/day, eek) | Rat (male) | Experimental value |
| ethylbenzene | Oral | NOAEL | 0ECD 407 | 75 mg/kg day | g/bw/ | Liver | Enlargement/affe tion of the liver | c- 28 day(s) | (s) Rat (ma female) | | Experimental value |
| | Oral | NOAEL | 0ECD 408 | 75 mg/kg day | g/bw/ | Liver | Enlargement/affertion of the liver | c- 13 week(| 5) | Rat (male/ female) | Experimental value |
| | Oral | LOAEL | 0ECD 408 | 250 mg/ bw/day | 'kg/ | Liver | Enlargement/affe tion of the liver | c- 13 week(s | 5) | Rat (male/ female) | Experimental value |
| | Oral | NOAEL | Equivalent to OECD 424 | 500 mg/ bw/day | ′kg/ | | No effect | 90 day(s |) | Rat (male/ female) | Experimental value |
| | Inhalation (vapours) | LOAEC | Equivalent to OECD 453 | 75 ppm | | | No effect | 104 week day, 5 da | s (6h/ ys/week) | Rat (male/ female) | Experimental value |
| | Inhalation | NOAEL | Equivalent to OECD 413 | 1000 ppr | n | | No effect | 13 weeks 5 days/w | (6h/day, eek) | Rat (male/ female) | Experimental value |
| | Inhalation | NOAEL | 0ECD 412 | 800 ppm | 1 | Liver | | 4 weeks days/we | (6h/day, 5 ek) | Mouse (male female) | / Experimental value |
| | Inhalation | NOAEL | 0ECD 412 | 800 ppm | 1 | Liver | Enlargement/affe tion of the liver | c- 4 weeks days/we | (6h/day, 5 ek) | Rat (male/ female) | Experimental value |

| Judgement is based on the | relevant ingredie | ents | | | | | | | | | | | | |
|--|--|---|-----------------------------|---------------------------|--------------------------------|---|-----------------------------|-------------------------|---------------------|---------|------------------------|--------------------|---------------------------|--|
| Conclusion | | | | | | Not clas | sified for subc | hronic to | oxicity | | | | | |
| Mutagenicity (in vitro) | | | | | | | | | | | | | | |
| Python BL | | | | | | No (test |)data on the n | nixture a | vailable. | | | | | |
| Chemical Name | Result | | | Method | | | Test substra | nte | | Effect | | Value o | letermination | |
| 4,4'-methylenediphenyl diisocyanate | Negative w activation, metabolic a | rith metaboli negative wit activation | ic thout | Equivalent to | 0 OECD 47 | 1 | Bacteria (S. typhimurium) | | | No effe | ct | Experir | Experimental value | |
| xylene | Negative w activation, metabolic a | rith metaboli negative wit activation | bolic Other without 1 | | | Chinese hamster ovary (CHO) | | | No effe | ct | Experir | Experimental value | | |
| ethylbenzene | Negative w activation, metabolic a | rith metaboli negative wit activation | ic thout | 0ECD 476 | | OECD 476 Mouse (lymphoma L5178Y cells) | | | No effe | ct | Experir | nental value | | |
| | Negative w activation, metabolic a | Negative with metabolic Equivalent to OEC activation, negative without metabolic activation | |) OECD 47 | 73 Chinese hamster ovary (CHO) | | | No effe | ct | Experir | nental value | | | |
| Mutagenicity (in vivo) | | | | | | | | | | | | · | | |
| Python BL | | | | | | No (test |)data on the m | nixture a | vailable. | | | | | |
| Chemical Name | Result | | Metho | d | Exposu | re time | | Test si | substrate 0 | | yan | Value de | etermination | |
| 4,4'-methylenediphenyl diisocyanate | Negative | | OECD 474 3 weel | | 3 weeks | s (1h/day, 1 day/week) Ra | | Rat (m | ale) | | | Experim | ental value | |
| xylene | Negative | | Equiva 478 | lent to OECD | | | | Mouse female | (male/ e) | | | Experim | ental value | |
| ethylbenzene | Negative | | OECD 4 | 186 | 6 h | | | Mouse (male/ female) | | | | Experim | ental value | |
| | Negative | | OECD 4 | 474 | 48 h | | | Mouse (male) | | | | Experim | ental value | |
| Carcinogenicity | | | | | | | | | | | | | | |
| Python BL | | | | | | No (test |)data on the m | nixture a | vailable. | | | | | |
| Chemical Name | Route of exposure | Paramete | er I | Method | Value | | Exposure t | ime | Species | | Value determination | Organ | Effect | |
| 4,4'-methylenediphenyl diisocyanate | Inhalation (aerosol) | NOAEC | 1 | Other | 0.7 mg/i | 'm³ air | 104 weeks (day, 5 days, | 17h/ /week) | Rat (fem | ale) | Experimental value | | No carcinogenic effect | |
| xylene | Oral | NOAEC | | Not further determined | ≥1000 i bw/day | mg/kg/ | 103 weeks (days/week) | 5 | Mouse (r female) | nale/ | Experimental value | | No carcinogenic effect | |
| | Oral | NOAEC | (| Not further determined | ≥500 n bw/day | ng/kg/ | 103 weeks (days/week) | 5 | Rat (mal female) | e/ | Experimental value | | No carcinogenic effect | |
| ethylbenzene | Inhalation (vapours) | NOAEC | | Equivalent to OECD 453 | 250 ppn | n | 104 weeks (day, 5 days, | 6h/ /week) | Rat (mal female) | e/ | Experimental value | | No effect | |
| Reproductive toxicity | | 1 | 1 | | 1 | | 1 | | 1 | | 1 | 1 | 1 | |
| Python BL | | | | | | No (test |)data on the n | nixture a | vailable. | | | | | |

| Chemical Name | | Paran | neter | Method | | Value | | Exposure tim | ie | Species | | Effect | | Organ | Value determination |
|--|---|-----------------|-----------|----------------------|------------|-------------------|----------------------------------|--|------------------------------|--|-------------------|----------------|---------|------------------|------------------------|
| 4,4'-methylenediphenyl diisocyanate | Developmental toxicity | NOAE | С | OECD 414 | 4 | 3 mg/m³ ai | r | 10 days (6h/d | lay) | Rat (female) |) | No effect | | | Experimental value |
| | | LOAEL | | OECD 414 | 4 | 9 mg/m³ ai | r | 10 days (6h/d | lay) | Rat (female) |) | Embryotoxici | ity | | Experimental value |
| | Maternal toxicity | NOAEI | L | OECD | | 4 mg/kg/b\ day | bw/ 10 day(s) | | | Rat (female) |) | No effect | | | Read-across |
| | Effects on fertility | | | | | | | | | | | | | | Data waiving |
| xylene | Developmental toxicity | NOAE | C | Equivale OECD 45 | nt to 3 | 250 ppm | | 15 days (6h/day) | | Rat (male/ female) | | No effect | | Foetus | Experimental value |
| | Maternal toxicity | NOAE | C | Equivale OECD 414 | nt to 4 | 500 ppm | | | | Rat | | No effect | | | Experimental value |
| | Effects on fertility | NOAE | C (P) | EPA OPP 870.380 | TS O | ≥500 ppm | | 70 days (6h/c | lay) | Rat (male/ female) | | No effect | | | Experimental value |
| | | NOAE | C (F1) | EPA OPP 870.380 | TS O | ≥500 ppm | | 70 days (6h/c | lay) | Rat (male/ female) | | No effect | | | Experimental value |
| ethylbenzene | Developmental toxicity | NOAE | C | OECD 414 | 414 500 pp | | | 15 days (gestatio daily) | | n Rat (female) | | No effect | | | Experimental value |
| | | NOAE | C | OECD 42 | 426 500 pp | | | 70 days (6h/day) | | Rat (male/ female) | | No effect | | | Experimental value |
| | Effects on fertility | NOAEI (P/F1/ | C 'F2) | OECD 41 | 416 500 pp | | | 70 days (6h/day) | | Rat (male/ female) | | No effect | | | Experimental value |
| | | NOAE | C (P) | Equivale OECD 41 | nt to 5 | 1000 ppm | | 2 week(s) | | Rat (male/ female) | | No effect | | | Experimental value |
| | | NOEC | (F1) | Equivale OECD 41 | nt to 5 | 100 ppm | | | | Rat (male/ female) | | No effect | | | Experimental value |
| | | NOAEI | L | Other | | 750 ppm | | 104 weeks (6h/ day, 5 days/week) | | Mouse (male/ female) | | No effect | | | Experimental value |
| | | NOEC | | OECD 40 | 8 | | | 13 week(s) | | Rat (male/ female) | | No effect | | | Experimental value |
| Judgement is based on th | e relevant ingredi | ents | | | | | | | | | | | | | |
| Conclusion CMR | | | | | | No No No | it class it class it class | sified for carcino sified for mutag sified for reproto | ogenic enic or oxic or | ity r genotoxic tox developmenta | icity al toxic | ity | | | |
| Toxicity other effects | | | | | | | | | | | | | | | |
| Python BL | | | | | | No | (test) | data on the mix | cture a | vailable. | | | | | |
| Chemical Name | Paramete | r | Method | | Value |) | Org | yan | Effe | ct | Expo | osure time | Spe | ecies | Value determination |
| 4,4'-methylenediphenyl diisocyanate | thylenediphenyl LD50 100 mg/kg anate | | | | | ıg/kg bw | | | | | | | Mo | use (male) | Experimental value |
| Chronic effects from shor | t and long-term e | xposure | | | | | | | | | | | | | |
| Python BL | | | | | | ON | I CONT | INUOUS/REPE | ATED E | XPOSURE/CON | NTACT: | Respiratory di | ifficul | lties. Skin rash | /inflammation. |
| SECTION 12: Ecological | information | | | | | | | | | | | | | | |
| 12.1. Toxicity | | | | | | | | | | | | | | | |
| No (test)data on the mixt | ure available. | | | | | | | | | | | | | | |

| Chemical Name | | Parameter | Method | Value | Duratio | tion Species | | Test o | lesign | Fresh/salt water | Value determination | | | | |
|-----------------------|---|--------------------|-----------------|-----------------------|--------------------|----------------------|---|-------------------------------|---------------------|---------------------|-------------------------------------|-------------|------------------------------------|-------------|------------------------------|
| ethylbenzene | Acute toxicity fishes | LD50 | 0ECD 203 | > 1000 mg/l | 96 h | Danio re | rio | Static | system | Fresh water | Read-across; Nominal concentration | | | | |
| | Acute toxicity invertebrates | EC50 | 0ECD 202 | 129.7 mg/l | 24 h | Daphnia | magna | Static | system | Fresh water | Read-across; Locomotor effect | | | | |
| | Toxicity algae and other aquatic plants | EC50 | 0ECD 201 | >1640 mg/l | 72 h | Desmod subspica | esmus atus | Static | system | Fresh water | Read-across; Growth rate | | | | |
| | Long-term toxicity aqua invertebrates | tic NOEC | 0ECD 211 | ≥10 mg/l | 21 day(| s) Daphnia | aphnia magna | | aphnia magna | | Daphnia magna | | static n | Fresh water | Read-across; Reproduction |
| | Toxicity aquatic microorganisms | EC50 | 0ECD 209 | > 100 mg/l | 3 h | Activate | Activated sludge | | Activated sludge | | system | Fresh water | Read-across; Nominal concentration | | |
| xylene | Acute toxicity fishes | LC50 | 0ECD 203 | 2.6 mg/l | 96 h | Oncorhy mykiss | nchus | Static | system | Fresh water | Read-across; Lethal concentration | | | | |
| | Acute toxicity invertebrates | EC50 | | 3.82 mg/l | 48 h | Daphnia | magna | Flow- systei | through n | Fresh water | Read-across; | | | | |
| | Toxicity algae and other aquatic plants | EC50 | 0ECD 201 | 4.36 mg/l | 72 h | Pseudok la subca | irchneriel pitata | Static | system | Fresh water | Experimental value; Growth rate | | | | |
| | Long-term toxicity fishNOEC> 1.3 mg/l | | | | | | nchus | Flow- systei | through n | Fresh water | Experimental value; Lethal | | | | |
| | Long-term toxicity aqua invertebrates | tic NOEC | US EPA | 1.17 mg/l | 7 day(s |) Ceriodaț dubia | ohnia | | | Fresh water | Read-across; Reproduction | | | | |
| ethylbenzene | Acute toxicity fishes | LC50 | 0ECD 203 | 4.2 mg/l | 96 h | Salmo g | airdneri | irdneri Semi-static system | | Fresh water | Experimental value | | | | |
| | Acute toxicity invertebrates | EC50 | 0ECD 203 | 1.8 mg/l -2.4 mg/l | 48 h | Daphnia |)aphnia magna St | | nagna Static system | | Experimental value | | | | |
| | Toxicity algae and other aquatic plants | EC50 | | 4.6 mg/l | 72 h | Selenast capricor | Selenastrum capricornutum | | | | Experimental value; Growth rate | | | | |
| | Long-term toxicity fish | ChV | 0ECD 201 | 1.13 mg/l | 30 day | (s) Pisces | | | | | QSAR | | | | |
| | Long-term toxicity aqua invertebrates | tic NOEC | | 1 mg/l | 7 day(s |) Ceriodaț dubia | ohnia | Semi- syster | static n | Fresh water | Experimental value; Reproduction | | | | |
| | Toxicity aquatic microorganisms | EC50 | US EPA | 96 mg/l | 24 h | Nitroson | nona | | | | Experimental value | | | | |
| | Parameter | | Method | Value | Duration | | | | Species | | Value determination | | | | |
| | Toxicity soil macro-orga | nisms | LC50 | 0ECD 207 | 0.042 mg, | /cm³ -0.053 n | ng/cm³ | | Eisenia fe | etida | Experimental value | | | | |
| Judgement is based | on the relevant ingredient | S | | | | | | | | | | | | | |
| Conclusion | | | | Not class 1272/200 | ified as dai)8 | ngerous for th | e environm | ent acco | ording to th | e criteria of Reg | ulation (EC) No | | | | |
| 12.2. Persistence a | nd degradability | | | | | | | | | | | | | | |
| 4,4'-methylenediph | ienyl diisocyanate | | | | | | | | | | | | | | |
| Biodegredation wat | er N | lethod | | | | Value | Duratio | 1 | | | Value determination | | | | |
| | (|)ECD 302C: Inherer | ıt Biodegradabi | lity: Modified MIT | l Test (II) | 0% | 28 day(s |) | | | Read-across | | | | |
| Phototransformatio | Phototransformation air (DT50 air) Method | | | | | | | | als | | Value determination | | | | |
| | ŀ | OPWIN v1.92 | | | | 0.92 day(s) | | | | | QSAR | | | | |
| Half-life water (t1/2 | 2 water) | Nethod | | | | Value | Primary degradation/mineralisation Value determ | | | Value determination | | | | | |
| | | | | 20 h | | | | | Read-across | | | | | | |
| xylene | | | | | | | | | | | | | | | |

| Biodegredation water | Method | | | Value | | Duration | Value determination | |
|-------------------------------------|-----------------------|---------------------------|-------------|---------------------|---------------------|-------------------------|-------------------------|-----------------------|
| | OECD 301F: Manometric | Respirometry ⁻ | lest 🛛 | 87.8 %; GI | .P | 28 day(s) | | Read-across |
| ethylbenzene | | | | | | | | |
| Biodegredation water | Method | | | Value | | Duration | | Value determination |
| | ISO 14593 | | | 70 % - 80 | %; GLP | 28 day(s) | | Experimental value |
| Phototransformation air (DT50 air) | Method | | | Value | | Conc. OH-radicals | | Value determination |
| | | | | | | 500000 /cm ³ | | |
| Half-life soil (t1/2 soil) | Method | | | Value | | Primary degradation | Value determination | |
| | | 3 day(s) - | 10 day(s) | | Literature study | | | |
| Half-life air (t1/2 air) | Method | Value | | Primary degradation | Value determination | | | |
| | | 2.3 day(s) | | | | | | |
| Conclusion | 1 | | Contai | ns non read | ily biodegradab | le component(s) | | I |
| 12.3. Bioaccumulative potential | | | | | | | | |
| Log kow | Method | Remark | | | Value | Temperature | | Value determination |
| | | Not applie | cable (mixt | ture) | | | | |
| 4,4'-methylenediphenyl diisocyanate | | | | | | | | - |
| BCF fishes | Parameter | Method | | Value | | Duration | Species | Value determination |
| | BCF | 0ECD 305 | | 92 - 200 | | 4 week(s) | Cyprinus carpi | Experimental value |
| Log kow | Method | Remark | | | Value | Temperature | | Value determination |
| | | Not applie | cable (mixt | ture) | 5.22 | | | Estimated value |
| | 0ECD 117 | | | | 4.51 | 22ºC | | Experimental value |
| xylene | | | | | | | | |
| BCF fishes | Parameter | Method | | Value | | Duration | Species | Value determination |
| | | | | 7 - 26 | | 8 week(s) | Oncorhynchus mykiss | Experimental value |
| Log kow | Method | Remark | | | Value | Temperature | | Value determination |
| | | | | | 3.2 | 20ºC | | Conclusion by analogy |
| ethylbenzene | | | | | | | | _ |
| BCF fishes | Parameter | Method | | Value | | Duration | Species | Value determination |
| | | Other | | 1 | | 6 week(s) | Oncorhynchus kisutch | Literature study |
| | | | | 15 - 79 | | | Carassius auratus | Literature study |
| BCF other aquatic organisms | Parameter | Method | | Value | | Duration | Species | Value determination |
| | BCF | | | | | | Lamellibranchiata | Literature study |
| Log kow | Method | Remark | | | Value | Temperature | | Value determination |
| | EU Method A.8 | | | | 3.6 | 20°C | Experimental value | |
| Conclusion | | | Does r | iot contain b | ioaccumulativ | e component(s) | | |
| 12.4. Mobility in soil | | | | | | | | |
| 4,4'-methylenediphenyl diisocyanate | | | | | | | | |

| Volatility (Henry's Law constant H) | Value | Met | hod | Temperature | | Remark | Value determination | | | | | |
|---|--------------------|----------|---------------------------------|--|------|------------------------|---------------------|------------------|---------------------|--|--|--|
| | 8.95E-7 atm m³/mol | | | 25ºC | | | | | Estimated value | | | |
| ethylbenzene | | | | 1 | | | | | | | | |
| (log) Koc | Parameter | Method | thod Val | | | lue Value d | | | | | | |
| | log Koc | | PCKOCWIN v1.66 | 2.7 | | 71 | | Calculated value | | | | |
| Volatility (Henry's Law constant H) | Value | Met | hod | Temperature | e | Remark | | | Value determination | | | |
| | 0.00843 atm m³/mol | | | 25ºC | | | | | Experimental value | | | |
| Percent distribution | Method | Frac | tion air | Fraction bio | ta | Fraction soil | Fraction | water | Value determination | | | |
| | Mackay Level 1 | 99.4 | 5% | | | 0.05% | 0.45% | | QSAR | | | |
| Conclusion | | | Contains compo | Contains component(s) with potential for mobility in the soil | | | | | | | | |
| 12.5. Results of PBT and vPvB assessment | | | | | | | | | | | | |
| Due to insufficient data no statement can be made whether the component(s) fulfil(s) the criteria of PBT and vPvB according to Annex XIII of Regulation (EC) No 1907/2006 | | | | | | | | | | | | |
| 12.6. Other adverse effects | | | | | | | | | | | | |
| Global warming potential (GWP) | | | None of the kno No 517/2014) | None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014) | | | | | | | | |
| Ozone-depleting potential (ODP) | | | Not classified as | Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009) | | | | | | | | |
| 4,4'-methylenediphenyl diisocyanate | | | | | | | | | | | | |
| Global warming potential (GWP) | | | Not included in | the list of fluori | nate | ed greenhouse gases (F | Regulation | (EC) No 517/ | /2014) | | | |
| xylene | | | | | | | | | | | | |
| Global warming potential (GWP) | | | Not included in | the list of fluori | nate | ed greenhouse gases (F | Regulation | (EC) No 517/ | /2014) | | | |
| Ground water | Ground water po | ollutant | | | | | | | | | | |
| ethylbenzene | | | | | | | | | | | | |
| Global warming potential (GWP) | | | Not included in | the list of fluori | nate | ed greenhouse gases (F | Regulation | (EC) No 517/ | /2014) | | | |
| SECTION 13: Disposal considerations | | | | | | | | | | | | |

| 13.1. Waste treatment method | | | |
|--|---|--|--|
| 13.1.1 Provisions relating to waste | Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC). 08 04 09* (wastes from MFSU of adhesives and sealants (including waterproofing products): waste adhesives and sealants containing organic solvents or other dangerous substances). Depending on branch of industry and production process, also other waste codes may be applicable. Hazardous waste according to Regulation (EU) No 1357/2014 | | |
| 13.1.2 Disposal methods | In authorized incinerator equipped with flue gas scrubber with energy recovery. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk or pollution or create problems for the further management of the waste. Hazardous waste shall be ma aged responsibly. All entities that store, transport or handle hazardous waste shall take the necessar measures to prevent risks of pollution or damage to people or animals. Do not discharge into drains of the environment. | | |
| 13.1.3 Packaging/Container | Waste material code packaging (Directive 2008/98/EC). 15 01 10* (packaging containing residues of or contaminated by dangerous substances). | | |
| SECTION 14: Transport information | | | |
| 14.1. UN number | | | |
| | | | |
| 14.2. UN proper shipping name | | | |
| | | | |
| 14.3. Transport hazard class(es) | | | |
| The product is not classified as dangerous for carriage. | | | |
| 14.4. Packing group | | | |

| SECTION 14: Transport information | | | | | |
|--|---|--|--|--|--|
| 14.4. Packing group | | | | | |
| The product is not classified as dangerous for carriage. | | | | | |
| 14.5. Environmental hazards | | | | | |
| Environmentally hazardous substance mar | k | No | | | |
| 14.6. Special precautions for user | | | | | |
| The product is not classified as dangerous | for carriage. | | | | |
| 14.7 Transport in bulk - IBC code | | | | | |
| The product is not classified as dangerous for carriage. | | | | | |
| SECTION 15: Regulatory information | | | | | |
| 15.1. Safety, health and environmental | regulations/legislation specific for the s | ubstance or mixture | | | |
| Kegulations | | The data should be considered when making any assessment under the Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, for example, "COSHH Essentials" (United Kingdom). This product is classified under the Chemicals (Hazard Information and Packag- ing) Regulations, (CHIP) (United Kingdom). COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC. REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction (ERACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC. | | | |
| 15.2. Chemical safety assessment | | | | | |
| | | A chemical safety assessment according to (EC) regulation 1907/2006 (REACH) has not been carried out for this product. | | | |
| European legislation: | | VOC content Directive 2010/75/EU | | | |
| VOC content Directive 2010/75/EU | | Remark | | | |
| 8 % - 13 % | | Calculated value | | | |
| 104 g/l - 169 g/l | | | | | |
| Indicative occupational exposure limit valu | es (Directive 98/24/EC, 2000/39/EC and 20 | 009/161/EU) | | | |
| Product name | | Skin resorption | | | |
| Ethylbenzene | | Skin | | | |
| Xylene, mixed isomers, pure | | Skin | | | |
| REACH Annex XVII - Restriction | | Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | | | |
| • xylene • ethylbenzene | Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F; (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1. | Shall not be used in: ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays, tricks and jokes, games for one or more participants, or any article intended to be used as such, even with ornamental aspects, Articles not complying with paragraph 1 shall not be placed on the market. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they: | | | |

| | | a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: Keep lamps filled with this liquid out of the reach of children; and, by 1 December 2010, Just a sip of lamp oil or even sucking the wick of lamps may lead to life- threatening lung damage; b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: Just a sip of grill lighter may lead to life threatening lung damage; c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to pre- pare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public.7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alterna- tives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission. | | |
|--|--|---|--|--|
| • xylene • ethylbenzene | Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, py- rophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to that Regulation or not. | 1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following: metallic glitter intended mainly for decoration, artificial snow and frost, whoopee cushions, silly string aerosols, imitation excrement, horns for parties, decorative flakes and foams, artificial cobwebs, stink bombs.2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with: For professional users only.3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/ 324/EEC.4. The aerosol dispensers requirements indicated | | |
| • 4,4'-methylenediphenyl diisocy- anate | Methylenediphenyl diisocyanate (MDI) including the following specific isomers: 4,4Methylenediphenyl diisocyanate; 2,4Methylenediphenyl diisocyanate; 2,2Methylenediphenyl diisocyanate | 1. Shall not be placed on the market after 27 December 2010, as a constituent of mixtures in concentra- tions equal to or greater than 0,1% by weight of MDI for supply to the general public, unless suppliers shall ensure before the placing on the market that the packaging: (a) contains protective gloves which comply with the requirements of Council Directive 89/686/EEC; (b) is marked visibly, legibly and indelibly as follows, and without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures: Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.2. By way of derogation, paragraph 1(a) shall not apply to hot melt adhesives. | | |
| Other relevant data | | | | |
| 4,4'-methylenediphenyl diisocyanate IARC - classification | | 3; 4,4'-methylenediphenyl diisocyanate and polymeric 4,4'-methylenediphenyl diisocyanate | | |
| xylene TLV - Carcinogen IARC - classification | | Xylene (all isomers); A4 3; Xylenes | | |
| ethylbenzene TLV - Carcinogen IARC - classification | | Ethyl benzene; A3 2B; Ethylbenzene | | |
| 15.2. Chemical safety assessment | | | | |
| No chemical safety assessment is required | l | | | |
| SECTION 16: Other information H phrases in section 2 | | H225 Highly flammable liquid and vapour. 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. 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 the lungs through prolonged or repeated exposure if inhaled. H373 May cause camage to the ears (hearing damage) through prolonged or repeated exposure. H412 Harmful to aquatic life with long lasting effects. (*) = INTERNAL CLASSIFICATION BY BIG PBT-substances = persistent, bioaccumulative and toxic substances CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe) | | |

| Specific concentration limits CLP | | | | | | |
|-------------------------------------|---|---------------------|----------------------|--|--|--|
| 4,4'-methylenediphenyl diisocyanate | $C \ge 5\%$ | Eye Irrit. 2; H319 | CLP Annex VI (ATP 1) | | | |
| | $C \ge 5\%$ | Skin Irrit. 2; H315 | CLP Annex VI (ATP 1) | | | |
| | C ≥ 0.1% | Resp. Sens. 1; H334 | CLP Annex VI (ATP 1) | | | |
| | $C \ge 5\%$ | STOT SE 3; H335 | CLP Annex VI (ATP 1) | | | |
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