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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 01.11.2021 / 0013

Revision date / version: 07.11.2021 / 0012 Replacing version dated / version: 02.08.2021 / 0012 Valid from: 01.11.2021 PDF print date: 01.11.2021 COSMO® PU-160.160 COSMO® PU-160.161 COSMO® PU-160.163

(COSMOPUR 812.60) (COSMOPUR 812.60 weißgrün)

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

1.1 Product identifier

COSMO® PU-160.160 COSMO® PU-160.161 COSMO® PU-160.163

(COSMOPUR 812.60) (COSMOPUR 812.60 weißgrün)

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

Relevant identified uses of the substance or mixture:

Uses advised against:

1.3 Details of the supplier of the safety data sheet

Weiss Chemie + Technik GmbH & Co. KG Hansastrasse 2 35708 Haiger Tel: +49 (0) 2773 / 815-0

msds@weiss-chemie.de www.weiss-chemie.de

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (WIC) +1 872 5888271 (WIC)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP) Hazard category

| i iazai u ciass | riazaru calegory | riazaru statement |
|-----------------|------------------|--|
| Eye Irrit. | 2 | H319-Causes serious eye irritation. |
| STOT SE | 3 | H335-May cause respiratory irritation. |
| Skin Irrit. | 2 | H315-Causes skin irritation. |
| Resp. Sens. | 1 | H334-May cause allergy or asthma |
| | | symptoms or breathing difficulties if inhaled. |
| Skin Sens. | 1 | H317-May cause an allergic skin reaction. |
| Carc. | 2 | H351-Suspected of causing cancer. |
| Aquatic | 3 | H412-Harmful to aquatic life with long lasting |
| Chronic | | effects. |
| STOT RE | 2 | H373-May cause damage to organs through |
| | | prolonged or repeated exposure by |
| | | inhalation (respiratory system). |
| | | |

2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)





Danger

H319-Causes serious eye irritation. H335-May cause respiratory irritation. H315-Causes skin irritation. H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317-May cause an allergic skin reaction. H351-Suspected of causing cancer. H412-Hamful to aquatic life with long lasting effects. H373-May cause damage to organs through prolonged or repeated exposure by inhalation (respiratory system).

P201-Obtain special instructions before use. P260-Do not breathe vapours or spray. P280-Wear

protective gloves / protective clothing / eye protection / face protection. P284-Wear respiratory protection. P384-Wear respiratory protection. P394-Wear respiratory protection. P3924-P352-IF ON SKIN: Wash with plenty of water / soap. P304+P340-IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313-IF exposed or concerned: Get medical advice / attention.

EUH204-Contains isocyanates. May produce an allergic reaction.

As from 24 August 2023 adequate training is required before industrial or professional use. Dibuty/tin dilaurate Dipheny/methanediisocyanate, isomeres and homologues

4,4'-methylenediphenyl diisocyanate

o-(p-isocyanatobenzyl)phenyl isocyanate 2,2'-methylenediphenyl diisocyanate

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

SECTION 3: Composition/information on ingredients

3.1 Substances

3.2 Mixtures

| 4,4'-methylenediphenyl diisocyanate | |
|---|--|
| Registration number (REACH) | 01-2119457014-47-XXXX |
| Index | 615-005-00-9 |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 202-966-0 |
| CAS | 101-68-8 |
| content % | 5-<25 |
| Classification according to Regulation (EC) 1272/2008 | Acute Tox. 4, H332 |
| (CLP), M-factors | 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 (respiratory system) (as |
| | inhalation) |
| Specific Concentration Limits and ATE | Skin Irrit. 2, H315: >=5 % |
| | Eye Irrit. 2, H319: >=5 % |
| | Resp. Sens. 1, H334: >=0,1 % |
| | STOT SE 3, H335: >=5 % |
| | |
| o-(p-isocyanatobenzyl)phenyl isocyanate | |
| Registration number (REACH) | 01-2119480143-45-XXXX |
| Index | 615-005-00-9 |
| | |

| | STOTSE 3, H335: >=5 % |
|---|--|
| · | |
| o-(p-isocyanatobenzyl)phenyl isocyanate | |
| Registration number (REACH) | 01-2119480143-45-XXXX |
| Index | 615-005-00-9 |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 227-534-9 |
| CAS | 5873-54-1 |
| content % | 5-<20 |
| Classification according to Regulation (EC) 1272/2008 | Acute Tox. 4, H332 |
| (CLP), M-factors | 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 (respiratory system) (as |
| | inhalation) |
| Specific Concentration Limits and ATE | Skin Irrit. 2, H315: >=5 % |
| | Eye Irrit. 2, H319: >=5 % |
| | Resp. Sens. 1, H334: >=0,1 % |
| | STOT SE 3, H335: >=5 % |
| | ATE / i-b-l-ti AD: 4 E ///4b |

| Diphenylmethanediisocyanate, isomeres and | |
|---|--|
| homologues | |
| Registration number (REACH) | |
| Index | |
| EINECS, ELINCS, NLP, REACH-IT List-No. | |
| CAS | 9016-87-9 |
| content % | 1-<10 |
| Classification according to Regulation (EC) 1272/2008 | Acute Tox. 4, H332 |
| (CLP), M-factors | 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 (respiratory system) (as |
| | inhalation) |
| Specific Concentration Limits and ATE | Skin Irrit. 2, H315: >=5 % |
| • | Eye Irrit. 2, H319: >=5 % |
| | Resp. Sens. 1, H334: >=0,1 % |
| | STOT SE 3, H335: >=5 % |
| | • |

| 2,2'-methylenediphenyl diisocyanate | |
|---|--|
| Registration number (REACH) | 01-2119927323-43-XXXX |
| Index | 615-005-00-9 |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 219-799-4 |
| CAS | 2536-05-2 |
| content % | 0,1-<1 |
| Classification according to Regulation (EC) 1272/2008 | Acute Tox. 4, H332 |
| (CLP), M-factors | 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 (respiratory system) (as |
| | inhalation) |
| Specific Concentration Limits and ATE | Skin Irrit. 2, H315: >=5 % |
| · | Eye Irrit. 2, H319: >=5 % |
| | Resp. Sens. 1, H334: >=0,1 % |
| | STOT SE 3, H335: >=5 % |
| | ATE (as inhalation, Aerosol): 1,5 mg/l |

| П | Dibutyltin dilaurate | | | |
|---|--|-----------------------|--|--|
| | Registration number (REACH) | 01-2119496068-27-XXXX | | |
| | Index | 050-030-00-3 | | |
| | EINECS, ELINCS, NLP, REACH-IT List-No. | 201-039-8 | | |
| | CAS | 77-58-7 | | |
| | content % | 0,25-<0,3 | | |
| | | | | |



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| Classification according to Regulation (EC) 1272/2008 | Skin Corr. 1C, H314 |
|---|---------------------------------|
| (CLP), M-factors | Eye Dam. 1, H318 |
| | Skin Sens. 1, H317 |
| | Muta. 2, H341 |
| | Repr. 1B, H360FD |
| | STOT SE 1, H370 (thymus) |
| | STOT RE 1, H372 (immune system) |
| | Aquatic Acute 1, H400 (M=1) |
| | Aquatic Chronic 1, H410 (M=1) |

| Isophthaloyl dichloride | | |
|---|-----------------------|--|
| Registration number (REACH) | 01-2119493993-19-XXXX | |
| Index | | |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 202-774-7 | |
| CAS | 99-63-8 | |
| content % | <0,25 | |
| Classification according to Regulation (EC) 1272/2008 | Acute Tox. 3, H331 | |
| (CLP), M-factors | Acute Tox. 4, H312 | |
| | Skin Corr. 1A, H314 | |
| | Eye Dam. 1, H318 | |

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16. The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account. The addition of the highest concentrations listed here can result in a classification. Only when this classification is listed in Section 2 does it apply. In all other cases the total concentration is below the classification.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected! Never pour anything into the mouth of an unconscious person!

Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms. If the person is unconscious, place in a stable side position and consult a doctor. Respiratory arrest - Artificial respiration apparatus necessary.

Skin contact

Wipe off residual product carefully with a soft, dry cloth.

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Dab away with polyethylene glycol 400

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available.

Ingestion

Rinse the mouth thoroughly with water.
Do not induce vomiting - give copious water to drink. Consult doctor immediatel

4.2 Most important symptoms and effects, both acute and delayed if applicable delayed symptoms and effects can be found in section 11 and the absorption ro The following may occur:

Dermatitis (skin inflammation)

Drving of the skin.

Discoloration of the skin

Irritant to mucosa of the nose and throat

Coughing

Effect on the central nervous system

Asthmatic symptoms In case of sensitivity, concentrations below the limit value may already result in asthmatic symptoms.

Respiratory distress
In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

4.3 Indication of any immediate medical attention and special treatment needed In case of irritation of the lungs, perform first-aid with controlled-dosage aerosol dexamethasone.

Pulmonary oedema prophylaxis

Medical supervision necessary due to possibility of delayed reaction.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

CO2 Extinction powder Water jet spray

Unsuitable extinguishing media

High volume water jet
5.2 Special hazards arising from the substance or mixture

In case of fire the following can devel Oxides of carbon Oxides of nitrogen

Isocyanates

Hydrocyanic acid (hydrogen cyanide)

Danger of bursting (explosion) when heated

5.3 Advice for firefighters

For personal protective equipment see Section 8. In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. According to size of fire

Full protection, if necessary Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnelIn case of spillage or accidental release, wear personal protective equipment as specified in section 8 to

prevent contamination. Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products

Leave the danger zone if possible, use existing emergency plans if necessary. Ensure sufficient supply of air. Avoid inhalation, and contact with eyes or skin. If applicable, caution - risk of slipping.

6.1.2 For emergency responders See section 8 for suitable protective equipment and material specifications.

6.2 Environmental precautions

If leakage occurs, dam up. Resolve leaks if this possible without risk.

Prevent surface and ground-water infiltration, as well as ground penetration. Prevent from entering drainage system. If accidental entry into drainage system occurs, inform responsible authorities

6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous ea dispose of according to Section 13.

Allow to stand for a few days in an unclosed container until reaction no longer occurs.

Keep moist.

Do not close packing drum.
CO2 formation in closed tanks causes pressure to rise.
6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Finsure good ventilation.

Avoid inhalation of the vapours.

If applicable, suction measures at the workstation or on the processing machine necessary.

Avoid contact with eyes or skin.

No contact with products of this type in case of allergies, asthma und chronic respiratory tract disorders.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs Remove contaminated clothing and protective equipm ent before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Keep protected from direct sunlight and temperatures over 50°C.

Only store at temperatures from 15°C to 25°C.

7.3 Specific end use(s)

Adhesive
Observe the instructions for good working practice and the recommendations for risk assessment.
Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries,

depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

Observe special requirements for isocyanates, also within the framework of the risk assessment and definition of protective measures. **SECTION 8: Exposure controls/personal protection**

8.1 Control parameters

| GB Chemical Name | 4,4'-methy | lenediphenyl diisocyanate | | | |
|---|--|--|-----------------------|----------------------|--|
| WEL-TWA: 0,02 mg/m3 (Isocya | anates, | WEL-STEL: 0,07 mg/r | m3 (Isocyanates, | | |
| all (as -NCO)) | | all (as -NCO)) | | | |
| Monitoring procedures: | | ISO 16702 (Workplace air | quality - determina | ition of total | |
| • | | isocyanate groups in air us | sing 2-(1-methoxypl | nenylpiperazine and | |
| | - | liquid chromatography) - 2 | 007 | | |
| | | MDHS 25/4 (Organic isocy | anates in air - Lab | oratory method using | |
| | | sampling either onto 2-(1-r | methoxyphenylpipe | razine coated glass | |
| | | fibre filters followed by solv | vent desorption or in | nto impingers and | |
| | | analysis using high perforr | mance liquid chrom | atography) - 2015 - | |
| | - | EU project BC/CEN/ENTR/000/2002-16 card 7-4 (2004) | | | |
| | - | NIOSH 5521 (ISOCYANA | TES, MONOMERIC | c) - 1994 | |
| | - | NIOSH 5522 (ISOCYANA | TES) - 1998 | • | |
| | - | NIOSH 5525 (ISOCYANA | TES, TOTAL (MAP) |) - 2003 | |
| | - | OSHA 18 (Diisocyanates 2 | 2,4-TDI and MDI) - | 1980 | |
| | - | OSHA 47 (Methylene Bisp | henyl Isocyanaté (N | ЛDI)) - 1984 | |
| BMGV: 1 µmol isocyanate-deriv | ed diamin | e/mol creatinine in urine | Other information | n: Sen | |
| (At the end of the period of exposure) (Isocyanates, all) | | |) | | |
| | | | | | |
| | (GB) Chemical Name o-(p-isocyanatobenzyl)phenyl isocyanate | | | | |
| TWEL-TWA: 0,02 mg/m3 (Isocya | anates, | WEL-STEL: 0,07 mg/r | m3 (Isocyanates, | | |
| -II (NOO)) | | | | | |

| (GB) Cnemical Name 0-(p-isocyanatoberizyr)prienyr isocyanate | | | | | | |
|---|---------------|---------------------|--------------------|-----------|--------|--|
| WEL-TWA: 0,02 mg/m3 (Iso | cyanates, | WEL-STEL: 0, | 07 mg/m3 (Isocyana | ites, | | |
| all (as -NCO)) | | all (as -NCO)) | | | | |
| Monitoring procedures: | | | | | | |
| BMGV: 1 µmol isocyanate-d | erived diamir | e/mol creatinine in | urine Other info | rmatior | n: Sen | |
| (At the end of the period of exp | oosure) | | (Isocyana | tes, all) |) | |
| | | | | | | |
| (GB) Chemical Name Diphenylmethanediisocyanate, isomeres and homologues | | | | | | |

| WEL-TWA: 0,02 mg/m3 (Isocyanates, | -STEL: 0,07 mg/m3 (Isocyanates, |
|---|---|
| all (as -NCO)) | s -NCO)) |
| Monitoring procedures: | |
| BMGV: 1 µmol isocyanate-derived diamine/n | reatinine in urine Other information: Sen |
| (At the end of the period of exposure) | (Isocyanates, all) |
| | |

| ı | (GB) Chemical Name | | lenediphenyl diiso | cyanate | | | |
|---|---------------------------------|---------------|---------------------|-----------|--------------------|--------|--|
| ı | WEL-TWA: 0,02 mg/m3 (Iso | cyanates, | WEL-STEL: 0 |),07 mg/r | m3 (Isocyanates, | | |
| ı | all (as -NCO)) | | all (as -NCO)) | | | | |
| ı | Monitoring procedures: | | | | · | | |
| ı | BMGV: 1 µmol isocyanate-d | erived diamir | e/mol creatinine in | urine | Other information | n: Sen | |
| ı | (At the end of the period of ex | oosure) | | | (Isocyanates, all) | | |

| (GB) Chemical Name | Dibutyltin dilaurate | | | | | |
|--------------------------|----------------------|-------------|-------------------|----------|---------|--|
| ~₩EL-TWA: 0,1 mg/m3 (Sn) | (tin WEL- | -STEL: 0,2 | 2 mg/m3 (Sn) (tin | | | |
| compounds, organic) | comp | ounds, orga | anic) | | | |
| Monitoring procedures: | | | | | | |
| BMGV: | | | Other info | rmation: | Sk (tin | |



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COSMO® PU-160.160
COSMO® PU-160.161
COSMO® PU-160.161

(COSMOPUR 812.60) (COSMOPUR 812.60 weißgrün)

| Area of application | Exposure route / Environmental compartment | Effect on health | Descri ptor | Valu e | Unit | Note |
|------------------------|---|---------------------------------|----------------|-----------|------------------------|------|
| | Environment - | | PNEC | 3,7 | μg/l | |
| | freshwater Environment - marine | | PNEC | 0,37 | μg/l | |
| | Environment - sewage treatment plant | | PNEC | 1 | mg/l | |
| | Environment - soil | | PNEC | 2,33 | mg/kg dw | |
| | Environment - sporadic (intermittent) release | | PNEC | 37 | µg/l | |
| | Environment - sediment, freshwater | | PNEC | 11,7 | mg/kg dry weight | |
| | Environment - sediment, marine | | PNEC | 1,17 | mg/kg dry weight | |
| Consumer | Human - oral | Short term, systemic effects | DNEL | 20 | mg/kg bw/dav | |
| Consumer | Human - dermal | Short term, local effects | DNEL | 17,2 | mg/cm 2 | |
| Consumer | Human - dermal | Short term, systemic effects | DNEL | 25 | mg/kg bw/day | |
| Consumer | Human - inhalation | Short term, local effects | DNEL | 0,05 | mg/m3 | |
| Consumer | Human - inhalation | Short term, systemic effects | DNEL | 0,05 | mg/m3 | |
| Consumer | Human - inhalation | Long term, local effects | DNEL | 0,02 5 | mg/m3 | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 0,02 5 | mg/m3 | |
| Workers / employees | Human - dermal | Short term, local effects | DNEL | 28,7 | mg/cm 2 | |
| Workers / employees | Human - dermal | Short term, systemic effects | DNEL | 50 | mg/kg bw/dav | |
| Workers / employees | Human - inhalation | Short term, local effects | DNEL | 0,1 | mg/m3 | |
| Workers / employees | Human - inhalation | Short term, systemic effects | DNEL | 0,1 | mg/m3 | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 0,05 | mg/m3 | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 0,05 | mg/m3 | |

| Area of application | Exposure route / | Effect on | Descri | Valu | Unit | Note |
|------------------------|---|---------------------------------|--------|-----------|-----------------|------|
| | Environmental compartment | health | ptor | е | | |
| | Environment - freshwater | | PNEC | 1 | mg/l | |
| | Environment - marine | | PNEC | 0,1 | mg/l | |
| | Environment - sewage treatment plant | | PNEC | 1 | mg/l | |
| | Environment - soil | | PNEC | 1 | mg/kg dw | |
| | Environment - sporadic (intermittent) release | | PNEC | 10 | mg/l | |
| Consumer | Human - oral | Short term, systemic effects | DNEL | 20 | mg/kg bw/day | |
| Consumer | Human - dermal | Short term, local effects | DNEL | 17,2 | mg/cm 2 | |
| Consumer | Human - dermal | Short term, systemic effects | DNEL | 25 | mg/kg bw/d | |
| Consumer | Human - inhalation | Short term, local effects | DNEL | 0,05 | mg/m3 | |
| Consumer | Human - inhalation | Short term, systemic effects | DNEL | 0,05 | mg/m3 | |
| Consumer | Human - inhalation | Long term, local effects | DNEL | 0,02 5 | mg/m3 | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 0,02 5 | mg/m3 | |
| Workers / employees | Human - dermal | Short term, systemic effects | DNEL | 50 | mg/kg bw/d | |
| Workers / employees | Human - dermal | Short term, local effects | DNEL | 28,7 | mg/cm 2 | |
| Workers / employees | Human - inhalation | Short term, systemic effects | DNEL | 0,1 | mg/m3 | |
| Workers / employees | Human - inhalation | Short term, local effects | DNEL | 0,1 | mg/m3 | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 0,05 | mg/m3 | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 0,05 | mg/m3 | |

| ocyanate, isomeres and | l homologues | | | | |
|--|---|--|--|---|--|
| Exposure route / Environmental compartment | Effect on health | Descri ptor | Valu e | Unit | Note |
| Environment - freshwater | | PNEC | 3,7 | μg/l | |
| Environment - marine | | PNEC | 0,37 | μg/l | |
| Environment - sediment, freshwater | | PNEC | 11,7 | mg/kg | |
| | Exposure route / Environmental compartment Environment - freshwater Environment - marine Environment - | Environmental compartment Environment - freshwater Environment - marine Environment - marine Environment - | Exposure route / Effect on health ptor compartment Environment - freshwater Environment - marine Environment - PNEC | Exposure route / Effect on health ptor e compartment Environment - freshwater Environment - marine Environment - more environment - more environment - more environment - | Exposure route / Effect on health ptor Descri ptor PNEC Street |

| | Environment - sediment, marine | | PNEC | 1,17 | mg/kg | |
|------------------------|-----------------------------------|------------------------------|------|------|-------|--|
| | Environment - soil | | PNEC | 2,33 | mg/kg | |
| Workers / employees | Human - inhalation | Short term, local effects | DNEL | 0,1 | mg/m3 | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 0,05 | mg/m3 | |

| Area of application | Exposure route / Environmental compartment | Effect on health | Descri ptor | Valu e | Unit | Note |
|------------------------|--|---------------------------------|----------------|-----------|---------------|------|
| | Environment - freshwater | | PNEC | 1 | mg/l | |
| | Environment - marine | | PNEC | 0,1 | mg/l | |
| | Environment - sewage treatment plant | | PNEC | 1 | mg/l | |
| | Environment - soil | | PNEC | 1 | mg/kg dw | |
| | Environment - water, sporadic (intermittent) release | | PNEC | 10 | mg/l | |
| Consumer | Human - oral | Short term, systemic effects | DNEL | 20 | mg/kg bw/d | |
| Consumer | Human - dermal | Short term, local effects | DNEL | 17,2 | mg/cm 2 | |
| Consumer | Human - dermal | Short term, systemic effects | DNEL | 25 | mg/kg bw/d | |
| Consumer | Human - inhalation | Short term, systemic effects | DNEL | 0,05 | mg/m3 | |
| Consumer | Human - inhalation | Short term, local effects | DNEL | 0,05 | mg/m3 | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 0,02 5 | mg/m3 | |
| Consumer | Human - inhalation | Long term, local effects | DNEL | 0,02 5 | mg/m3 | |
| Workers / employees | Human - dermal | Short term, local effects | DNEL | 28,7 | mg/cm 2 | |
| Workers / employees | Human - dermal | Short term, systemic effects | DNEL | 50 | mg/kg bw/d | |
| Workers / employees | Human - inhalation | Short term, local effects | DNEL | 0,1 | mg/m3 | |
| Workers / employees | Human - inhalation | Short term, systemic effects | DNEL | 0,1 | mg/m3 | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 0,05 | mg/m3 | |
| Workers / employees | Human - inhalation | Long term, | DNEL | 0,05 | mg/m3 | |

| Dibutyltin dilaurate Area of application | Exposure route / Environmental | Effect on health | Descri ptor | Valu e | Unit | Note |
|--|-----------------------------------|---------------------------------|----------------|------------------|---------------------------------|------|
| | compartment Environment - | | PNEC | 0,05 | mg/kg | |
| | sediment, freshwater | | | *, | wet weight | |
| | Environment - freshwater | | PNEC | 0,00 046 3 | mg/l | |
| | Environment - marine | | PNEC | 0,00 004 6 | mg/l | |
| | Environment - sediment, marine | | PNEC | 0,00 5 | mg/kg wet weight | |
| Consumer | Human - dermal | Short term, systemic effects | DNEL | 0,5 | mg/kg body weight/ day | |
| Consumer | Human - inhalation | Short term, systemic effects | DNEL | 0,02 | mg/m3 | |
| Consumer | Human - oral | Short term, systemic effects | DNEL | 0,01 | mg/kg body weight/ day | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 0,08 | mg/kg body weight/ day | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 0,00 | mg/m3 | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 0,00 2 | mg/kg body weight/ day | |
| Workers / employees | Human - dermal | Short term, systemic effects | DNEL | 1 | mg/kg body weight/ day | |
| Workers / employees | Human - inhalation | Short term, systemic effects | DNEL | 0,07 | mg/m3 | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 0,2 | mg/kg body weight/ day | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 0,01 | mg/m3 | |

| Area of application | Exposure route / | Effect on | Descri | Valu | Unit | Note |
|---------------------|------------------------|-----------|--------|------|------|------|
| | Environmental | health | ptor | е | | |
| | compartment | | | | | |
| | Environment - | | PNEC | 0,13 | mg/l | |
| | freshwater | | | 3 | _ | |
| | Environment - | | PNEC | 0,01 | mg/l | |
| | marine | | | 33 | | |
| | Environment - | | PNEC | 1,33 | mg/l | |
| | sporadic | | | 7 | | |
| | (intermittent) release | | | | | |
| | Environment - | | PNEC | 6,17 | mg/l | |
| | sewage treatment | | | 1 | _ | |
| | plant | | | | | |



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| | Environment - | | PNEC | 0,63 | mg/kg | |
|-----------|----------------------|------------------|------|------|-------|--|
| | sediment, freshwater | | | 65 | | |
| | Environment - | | PNEC | 0,06 | mg/kg | |
| | sediment, marine | | | 37 | | |
| | Environment - soil | | PNEC | 0,04 | mg/kg | |
| | | | | 92 | | |
| Workers / | Human - inhalation | Long term, | DNEL | 3,94 | mg/m3 | |
| employees | | systemic effects | | | | |
| Workers / | Human - dermal | Long term, | DNEL | 4,47 | mg/kg | |
| employees | | systemic effects | | | bw/d | |

CB - United Kingdom | WEL-TWA = Workplace Exposure Limit - Long-term exposure limit - 8-hour TWA (= lime weighted average) reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU

(8) = Inhalable fraction (2004/37/CE, 2017/164/EU). (9) = Respirable fraction (2004/37/CE, 2017/164/EU). (a) = Initiatative Iracitori (2004/37/CE, 2017/164/EU). (9) = Respirative Iracitori (2004/37/CE, 2017/164/EU). (11) = Inhalable Iracitori (2004/37/CE), (12) = Inhalable Iracitori. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit - 15-minute reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)). (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU and 1997/2018/14/EU.

or 2019/1831/EU:

(8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). |

| BMGV = Biological monitoring guidance value (EH40/2005 Workplace exposure limits (Fourth Edition

(EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value - BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) | Other information (EH40/2005 Workplace exposure limits (Fourth Edition 2020)): Sen = Capable of causing Tother information (EH40/2005 Workplace exposure limits (Fourth Edition 2020)): Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:

(13) = The substance can cause sensitisation of the skin and of the respiratory tract (2004/37/CE), (14) = The substance can cause sensitisation of the skin (2004/37/CE). I

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn

should be worn.

Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of

exposure to chemical and biological agents'

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection: Chemical resistant protective gloves (EN ISO 374). Recommended

Protective nitrile gloves (EN ISO 374). Minimum layer thickness in mm:

>= 0.35

Permeation time (penetration time) in minutes:

>= 480
The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical

The recommended maximum wearing time is 50% of breakthrough time

Protective hand cream recommended

Skin protection - Other: Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:

Normally not necessary.

If OES or MEL is exceeded.
Filter A2 P2 (EN 14387), code colour brown, white
Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed. In the case of mixtures, the selection has been made according to the knowledge available and the

information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and

varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested

before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

According to specification

Odour:

Melting point/freezing point There is no information available on this parameter. Boiling point or initial boiling point and boiling range: Flammability:
Lower explosion limit: There is no information available on this parameter. There is no information available on this parameter. Combustible.

There is no information available on this parameter.

Upper explosion limit There is no information available on this parameter. Flash point: There is no information available on this parameter. Mixture reacts with water. 3200-3900 mPas (20°C, Dynamic viscosity) Auto-ignition temperature: Decomposition temperature:

Kinematic viscosity:

Solubility: Insoluble Partition coefficient n-octanol/water (log value): Does not apply to mixtures

Vapour pressure:
Density and/or relative density:
Relative vapour density: There is no information available on this parameter. 1,07-1,14 g/cm3
There is no information available on this parameter.

Particle characteristics: Does not apply to liquids.

9.2 Other information

Product is not explosive Oxidising liquids

Bulk density

SECTION 10: Stability and reactivity

10.1 Reactivity

10.2 Chemical stability
Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

Exothermic reaction possible with

Alcohols

Amines Bases

Acids Water

Developement of:

Developement ...
Carbon dioxide
CO2 formation in closed tanks causes pressure to rise.
Pressure increase will result in danger of bursting.

Protect from humidity.
Polymerisation due to high heat is possible.
T > 200°C

10.5 Incompatible materials

Acids Bases

Amines Alcohols

10.6 Hazardous decomposition products No decomposition when used as directed.

SECTION 11: Toxicological information

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

Possibly more information on health effects, see Section 2.1 (classification COSMO® PU-160.160 COSMO® PU-160.161 COSMO® PU-160.163

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4.4' methylenedinhenyl diicegyanate

| Toxicity / effect | Endpo int | Value | Unit | Organis m | Test method | Notes |
|-------------------------|--------------|-------|-------|--------------|-------------|-------------------|
| Acute toxicity, by oral | | | | | | n.d.a. |
| route: | | | | | | |
| Acute toxicity, by | | | | | | n.d.a. |
| dermal route: | | | | | | |
| Acute toxicity, by | ATE | >20 | mg/l/ | | | calculated |
| inhalation: | | | 4h | | | value, Vapours |
| Skin | | | | | | n.d.a. |
| corrosion/irritation: | | | | | | |
| Serious eye | | | | | | n.d.a. |
| damage/irritation: | | | | | | |
| Respiratory or skin | | | | | | n.d.a. |
| sensitisation: | | | | | | |
| Germ cell | | | | | | n.d.a. |
| mutagenicity: | | | | | | |
| Carcinogenicity: | | | | | | n.d.a. |
| Reproductive toxicity: | | | | | | n.d.a. |
| Specific target organ | | | | | | n.d.a. |
| toxicity - single | | | | | | |
| exposure (STOT-SE): | | | | | | |
| Specific target organ | | | | | | n.d.a. |
| toxicity - repeated | | | | | | |
| exposure (STOT-RE): | | | | | | |
| Aspiration hazard: | | | _ | | | n.d.a. |
| Symptoms: | | | | | | n.d.a. |

| 4,4°-metnylenealpneny | ı diisocyana | ate | | | | |
|--------------------------------|--------------|-------|-----------|---------|---------------------------------|--------------------------|
| Toxicity / effect | Endpo | Value | Unit | Organis | Test method | Notes |
| | int | | | m | | |
| Acute toxicity, by oral route: | LD50 | >2000 | mg/k g | Rat | Regulation (EC) 440/2008 B.1 | Analogous conclusion |
| | | | " | | (ACUTE ORAL | |
| | | | | | TOXICITY) | |
| Acute toxicity, by | LD50 | >9400 | mg/k | Rabbit | OECD 402 | Analogous |
| dermal route: | | | g | | (Acute Dermal | conclusion |
| | | | | _ | Toxicity) | |
| Acute toxicity, by | LC50 | 0,368 | mg/l/ | Rat | OECD 403 | Aerosol, |
| inhalation: | | | 4h | | (Acute Inhalation | Does not |
| | | | | | Toxicity) | conform |
| | | | | | | with EU classificatio |
| | | | | | | |
| At- ti-it b | 1.050 | 4.5 | | | | n. |
| Acute toxicity, by | LC50 | 1,5 | mg/l/ | | | Aerosol, |
| inhalation: | | | 4h | | | Expert |
| | | | | | | judgement. |
| Skin | | | | Rabbit | OECD 404 | Skin Irrit. |
| corrosion/irritation: | | | 1 | | (Acute Dermal | 2, |
| | | | 1 | | Irritation/Corrosio | Analogous |
| | | | | | n) | conclusion |



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| Respiratory or skin | | 1 | | Guinea | | Yes |
|------------------------|-------|------|-----------|-----------|-------------------|--------------------------|
| | | | | | | |
| sensitisation: | | | | pig | | (inhalation) |
| Respiratory or skin | | | | Mouse | OECD 429 (Skin | Skin Sens. |
| sensitisation: | | | | | Sensitisation - | 1 |
| | | | | | Local Lymph | |
| | | | | | Node Assay) | |
| Germ cell | | | | Salmonel | OECD 471 | Negative, |
| mutagenicity: | | | | la | (Bacterial | Analogous |
| 9 , | | | | typhimuri | Reverse | conclusion |
| | | | | um | Mutation Test) | |
| Germ cell | | | | Rat | OECD 474 | Negativem |
| mutagenicity: | | | | - rui | (Mammalian | ale |
| mutagementy. | | | | | Erythrocyte | aic |
| | | | | | | |
| | | | | | Micronucleus | |
| _ | | | | | Test) | |
| Germ cell | | | | Rat | OECD 489 (In | Negativem |
| mutagenicity: | | | | | Vivo Mammalian | ale |
| | | | | | Alkaline Comet | |
| | | | | | Assay) | |
| Carcinogenicity: | | | | Rat | OECD 453 | Aerosol, |
| , | | | | | (Combined | Analogous |
| | | | | | Chronic | conclusion |
| | | | | | Toxicity/Carcinog | Carc. 2 |
| | | | | | enicity Studies) | Ou. 0. 2 |
| Reproductive toxicity: | NOAE | 4-12 | mg/m | Rat | OECD 414 | Aerosol. |
| reproductive toxicity. | INOAL | 4-12 | 3 | ivai | (Prenatal | Analogous |
| | - | | 3 | | Developmental | conclusion |
| | | | | | | Conclusion |
| | 1015 | | , | 5 . | Toxicity Study) | |
| Specific target organ | LOAE | 1 | mg/m | Rat | OECD 453 | Aerosol, |
| toxicity - repeated | L | | 3 | | (Combined | Analogous |
| exposure (STOT-RE), | | | | | Chronic | conclusion |
| inhalat.: | | | | | Toxicity/Carcinog | Target |
| | | | | | enicity Studies) | organ(s): |
| | | | | | | respiratory |
| | | | | | | system |
| Specific target organ | | | | | | May cause |
| toxicity - single | | | | | | respiratory |
| exposure (STOT-SE), | | | | | | irritation. |
| inhalative: | | | | | | iiiialioii. |
| Specific target organ | NOAE | 0,2 | | Rat | OECD 453 | Annaal |
| | | U,Z | mg/m 3 | rai | | Aerosol, |
| toxicity - repeated | L | | ا ع | | (Combined | Analogous |
| exposure (STOT-RE), | | | | | Chronic | conclusion |
| inhalat.: | I | l | 1 | | Toxicity/Carcinog | Target |
| | l | | | | | |
| | | | | | enicity Studies) | organ(s): |
| | | | | | enicity Studies) | organ(s): respiratory |

| o-(p-isocyanatobenzyl) Toxicity / effect | Endpo | Value | Unit | Organic | Test method | Notes |
|--|-------|-------|-------------|-----------------------------------|---|--|
| | int | | | Organis m | rest method | Notes |
| Acute toxicity, by oral route: | LD50 | >2000 | mg/k g | Rat | Regulation (EC) 440/2008 B.1 (ACUTE ORAL TOXICITY) | Analogous conclusion |
| Acute toxicity, by dermal route: | LD50 | >9400 | mg/k g | Rabbit | OECD 402 (Acute Dermal Toxicity) | Analogous conclusion |
| Acute toxicity, by inhalation: | LC50 | 0,387 | mg/l/ 4h | Rat | | Aerosol, Does not conform with EU classificati |
| Acute toxicity, by inhalation: | ATE | 1,5 | mg/l/ 4h | | | Aerosol, Expert judgemen |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosio n) | Skin Irrit. 2, Analogous conclusion |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosio n) | Not irritant Analogous conclusior Does not conform with EU classificati n. |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | No (skin contact), Analogous conclusion |
| Respiratory or skin sensitisation: | | | | Guinea pig | | Yes (inhalation Analogou conclusio |
| Respiratory or skin sensitisation: | | | | Mouse | OECD 429 (Skin Sensitisation - Local Lymph Node Assay) | Yes (skin contact), Analogous conclusion |
| Germ cell mutagenicity: | | | | Salmonel la typhimuri um | OECD 471 (Bacterial Reverse Mutation Test) | Negative, Analogous conclusion |
| Germ cell mutagenicity: | | | | Rat | OECD 474 (Mammalian Erythrocyte Micronucleus Test) | Negative, Analogous conclusion male |
| Carcinogenicity: | | | | Rat | OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies) | Aerosol, Analogous conclusion Carc. 2 |

| Reproductive toxicity: | NOAE L | 4-12 | mg/k g | Rat | OECD 414 (Prenatal Developmental Toxicity Study) | Aerosol, Analogous conclusion |
|---|-----------|------|-----------|-----|---|---|
| Symptoms: | | | | _ | | mucous membrane irritation, breathing difficulties, coughing, asthmatic symptoms |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAE L | 0,2 | mg/m 3 | Rat | OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies) | Aerosol, Analogous conclusion, Target organ(s): respiratory system |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | LOAE L | 1 | mg/m 3 | Rat | OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies) | Aerosol, Analogous conclusion, Target organ(s): respiratory system |

| | | | | | enicity Studies) | respiratory system |
|---|--------------|---------------|-------------|-----------------------------------|---|--|
| | | | | | | System |
| Diphenylmethanediiso | | | | | To at weath and | Notes |
| Toxicity / effect | Endpo int | Value | Unit | Organis m | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | >5000 | mg/k g | Rat | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | >5000 | mg/k g | Rabbit | OECD 402 (Acute Dermal Toxicity) | |
| Acute toxicity, by inhalation: | LC50 | 0,31- 0,49 | mg/l/ 4h | Rat | OECD 403 (Acute Inhalation Toxicity) | Aerosol, Does not conform with EU classificatio n. |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosio n) | Skin Irrit. 2 |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosio n) | Eye Irrit. 2 |
| Respiratory or skin sensitisation: | | | | Mouse | OECD 429 (Skin Sensitisation - Local Lymph Node Assay) | Yes (skin contact), Analogous conclusion |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | Yes (skin contact) |
| Respiratory or skin sensitisation: | | | | Rat | | Yes (inhalation) |
| Germ cell mutagenicity: | | | | Rat | OECD 474 (Mammalian Erythrocyte Micronucleus Test) | Negative, Analogous conclusion |
| Germ cell mutagenicity: | | | | Salmonel la typhimuri um | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Reproductive toxicity: | NOAE L | 4 | mg/m 3 | Rat | OECD 414 (Prenatal Developmental Toxicity Study) | Aerosol, Negative |
| Carcinogenicity: | | | | Rat | OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies) | Aerosol, Limited evidence of a carcinogeni c effect. |
| Specific target organ toxicity - single exposure (STOT-SE), inhalative: | | | | | | Target organ(s): respiratory system, May cause respiratory irritation. |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: Symptoms: | | | | | | Target organ(s): respiratory system |
| | | | | | | breathing difficulties |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | LOAE L | 1 | mg/m 3 | Rat | OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies) | Aerosol, Analogous conclusion |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAE L | 0,2 | mg/m 3 | Rat | OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies) | Aerosol, Analogous conclusion |
| 2.2'-methylenedipheny | l diisocvana | ate | | | | |

| 2,2'-methylenediphenyl | diisocyana | ate | | | | |
|----------------------------------|------------|-------|-------------|---------|---|---|
| Toxicity / effect | Endpo | Value | Unit | Organis | Test method | Notes |
| | int | | | m | | |
| Acute toxicity, by oral route: | LD50 | >2000 | mg/k g | Rat | Regulation (EC) 440/2008 B.1 (ACUTE ORAL TOXICITY) | Analogous conclusion |
| Acute toxicity, by dermal route: | LD50 | >9400 | mg/k g | Rabbit | OECD 402 (Acute Dermal Toxicity) | Analogous conclusion |
| Acute toxicity, by inhalation: | LC50 | 0,527 | mg/l/ 4h | Rat | OECD 403 (Acute Inhalation Toxicity) | Aerosol, Does not conform with EU classificatio n. |



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| Acute toxicity, by inhalation: | ATE | 1,5 | mg/l | | | Aerosol, Expert judgement |
|--|-----------|------|-----------|-----------------------------------|---|--|
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosio n) | Skin Irrit. 2 |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosio n) | Slightly irritant |
| Respiratory or skin sensitisation: | | | | Guinea pig | , | Yes (inhalation), Analogous conclusion |
| Respiratory or skin sensitisation: | | | | Mouse | OECD 429 (Skin Sensitisation - Local Lymph Node Assay) | Yes (skin contact) |
| Germ cell mutagenicity: | | | | Salmonel la typhimuri um | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | Rat | OECD 474 (Mammalian Erythrocyte Micronucleus Test) | Negative, Analogous conclusion |
| Carcinogenicity: | | | | Rat | OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies) | Analogous conclusion, Aerosol, Carc. 2 |
| Reproductive toxicity: | NOAE L | 4-12 | mg/m 3 | Rat | OECD 414 (Prenatal Developmental Toxicity Study) | No indications of such an effect., Aerosol, Analogous conclusion |
| Symptoms: | | | | | | respiratory distress, coughing, mucous membrane irritation |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAE L | 0,2 | mg/m 3 | Rat | OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies) | Aerosol, Target organ(s): respiratory system, Analogous conclusion |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | LOAE L | 1 | mg/m 3 | Rat | OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies) | Aerosol, Target organ(s): respiratory system, Analogous conclusion |

| Dibutyltin dilaurate | | | | | | |
|-----------------------|-------|-------|------|---------|----------------|-------------|
| Toxicity / effect | Endpo | Value | Unit | Organis | Test method | Notes |
| | int | | | m | | |
| Skin | | | | Rat | | Corrosive |
| corrosion/irritation: | | | | | | |
| Respiratory or skin | | | | Guinea | OECD 406 (Skin | Sensitising |
| sensitisation: | | | | pig | Sensitisation) | _ |
| Aspiration hazard: | | | | | | Negative |

| Isophthaloyl dichloride | | | | | | |
|--|--------------|-------|-------------|---------------|--|---------------------------------------|
| Toxicity / effect | Endpo int | Value | Unit | Organis m | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | >5000 | mg/k g | Rat | | |
| Acute toxicity, by dermal route: | LD50 | 1410 | mg/k g | Rabbit | | |
| Acute toxicity, by inhalation: | LC50 | 0,7 | mg/l/ 4h | Rat | | Aerosol, Analogous conclusion |
| Skin corrosion/irritation: | | | | Rabbit | | Corrosive, Analogous conclusion |
| Serious eye damage/irritation: | | | | Rabbit | | Corrosive, Analogous conclusion |
| Respiratory or skin sensitisation: | | | | Guinea pig | | No (skin contact) |
| Germ cell mutagenicity: | | | | | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) | Negative, Analogous conclusion |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAE L | 474 | mg/k g | Rat | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | Analogous conclusion |

11.2. Information on other hazards

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| (COSMOPUR 812.60 we | ißgrün) | | | | | |
|----------------------|---------|-------|------|---------|-------------|-------------|
| Toxicity / effect | Endpo | Value | Unit | Organis | Test method | Notes |
| | int | | | m | | |
| Endocrine disrupting | | | | | | Does not |
| properties: | | | | | | apply to |
| | | | | | | mixtures. |
| Other information: | | | | | | No other |
| | | | | | | relevant |
| | | | | | | information |
| | | | | | | available |
| | | | | | | on adverse |
| | | | | | | effects on |
| | | | | | | health. |

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

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COSMO® PU-160.161

COSMO® PU-160.163

(COSMOPUR 812.60) (COSMOPUR 812.60 w

| t e e method 12.1. Toxicity to fish: | n.d.a. |
|---------------------------------------|-------------|
| fish: | |
| | |
| 12.1. Toxicity to | n.d.a. |
| daphnia: | II.u.a. |
| 12.1. Toxicity to | n.d.a. |
| algae: | m.u.a. |
| 12.2. | With water |
| Persistence and | at the |
| | interface. |
| degradability: | |
| | transforms |
| | slowly with |
| | formation |
| | of CO2 |
| | into a firm |
| | insoluble |
| | reaction |
| | product |
| | with a high |
| | melting |
| | point |
| | (polycarba |
| | mide). |
| | According |
| | to |
| | experienc |
| | available |
| | to date, |
| | polycarba |
| | ide is iner |
| | and non- |
| | degradabl |
| | |
| 12.3. | n.d.a. |
| Bioaccumulative | |
| potential: | |
| 12.4. Mobility in | n.d.a. |
| soil: | |
| 12.5. Results of | n.d.a. |
| PBT and vPvB | |
| assessment | |
| 12.6. Endocrine | Does not |
| disrupting | apply to |
| properties: | mixtures. |
| 12.7. Other | No |
| adverse effects: | informatio |
| | available |
| | on other |
| | adverse |
| | effects on |
| | the |
| | environme |
| | t. |

| Toxicity / effect | Endpoin t | Tim e | Valu e | Unit | Organism | Test method | Notes |
|----------------------------|---------------|----------|-----------|------|--------------------------------|---|-------------------------|
| 12.1. Toxicity to fish: | LC50 | 96h | >10 00 | mg/l | Brachydanio rerio | OECD 203 (Fish, Acute Toxicity Test) | Analogous conclusion |
| 12.1. Toxicity to daphnia: | EC50 | 24h | >10 00 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisati on Test) | Analogous conclusion |
| 12.1. Toxicity to daphnia: | NOEC/N OEL | 21d | >10 | mg/l | Daphnia magna | OECD 211 (Daphnia magna Reproductio n Test) | Analogous conclusion |
| 12.1. Toxicity to algae: | ErC50 | 72h | >16 40 | mg/l | Desmodesm us subspicatus | OECD 201 (Alga, Growth Inhibition Test) | Analogous conclusion |



| <u>an</u> | | | | | | | | | | | | | | | |
|---|---|-----------|------------|---------------|---------------------|--|--|--|-------------------------|-----------------|---------------|---------------|--------------------------------|--|--|
| Page 7 of 10 Safety data sheet a Revision date / vers Replacing version of valid from: 01.11.2(PDF print date: 01.' COSMO® PU-160. COSMO® PU-160. COSMO® PU-160. | sion: 01.11.20 dated / versior 021 11.2021 160 161 | 021 / 001 | 3 | | 3, Annex II | | | Other information: | | | | | | | According to experience available to date, polycarbam ide is inert and non-degradable |
| (COSMOPUR 812.0 (COSMOPUR 812.0 | | | | | | | | | | | | | | | ., With water at the |
| 12.2. Persistence and degradability: | | 28d | 0 | % | | OECD 302 C (Inherent Biodegradab ility - Modified MITI Test (II)) | Not biodegrada ble, With water at the interface, transforms slowly with formation of CO2 into a firm, insoluble reaction | | | | | | | | interface, transforms slowly with formation of CO2 into a firm, insoluble reaction product with a high melting point (polycarba mide). |
| | | | | | | | product with a high melting point (polycarba | Toxicity to annelids: | NOEC/N OEL | 14d | > 100 0 | mg/k g | Lumbricus terrestris | OECD 207 (Earthworm, Acute Toxicity Tests) OECD 207 | Analogous conclusion Analogous |
| | | | | | | | mide)., According to experience available to date, | annelids: | ECOU | 140 | >10 00 | mg/k g | foetida | (Earthworm, Acute Toxicity Tests) | conclusion |
| | l | | | | | | polycarbam ide is inert | o-(p-isocyanatobe Toxicity / effect | enzyl)phenyl Endpoin | isocyana Tim | te Valu | Unit | Organism | Test | Notes |
| | | | | | | | and non- degradable | 12.1. Toxicity to | t LC50 | e 96h | e >10 | mg/l | Brachydanio | method OECD 203 | Analogous |
| | | | | | | | Analogous conclusion | fish: | | | 00 | | rerio | (Fish, Acute Toxicity Test) OECD 202 | conclusion |
| 12.3. Bioaccumulative potential: | Log Pow | | 5,22 | | | | A notable biological accumulati on | daphnia: | EC50 | 24h | >10 00 | mg/l | Daphnia magna | (Daphnia sp. Acute Immobilisati on Test) | Analogous conclusion |
| | | | | | | | potential has to be expected (LogPow > 3). | 12.1. Toxicity to daphnia: | NOEC/N OEL | 21d | >10 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisati on Test) | Analogous conclusion |
| 12.3. Bioaccumulative potential: | BCF | 28d | 200 | | Cyprinus caprio | IUCLID Chem. Data Sheet (ESIS) | Not to be expected | 12.1. Toxicity to algae: | ErC50 | 72h | >16 40 | mg/l | Scenedesm us subspicatus | OECD 201 (Alga, Growth Inhibition | Analogous conclusion |
| 12.4. Mobility in soil: | H (Henry) | | 0,02 29 | Pa*m 3/mol | | | | 12.2. | | 28d | 0 | % | | Test) OECD 302 | Not |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance | Persistence and degradability: | | | | | | C (Inherent Biodegradab ility - Modified | biodegrada ble, Analogous conclusion, |
| Toxicity to bacteria: | EC50 | 3h | >10 0 | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) | Analogous conclusion | | | | | | | MITI Test (II)) | According to experience available to date, polycarbam ide is inert and non-degradable., With |
| Other organisms: | NOEC/N OEL | 14d | >10 00 | mg/k g | Lactuca sativa | OECD 208 (Terrestrial Plants, Growth Test) | Analogous conclusion | | | | | | | | water at the interface, transforms slowly with |
| Other organisms: | NOEC/N OEL | 14d | >10 00 | mg/k g | Avena sativa | OECD 208 (Terrestrial Plants, Growth Test) | Analogous conclusion | | | | | | | | formation of CO2 into a firm, insoluble reaction |
| Other information: | AOX | | | | | | Does not contain any organically bound | | | | | | | | product with a high melting point (polycarba |
| | | | | | | | halogens which can contribute to the AOX value in | 12.3. Bioaccumulative potential: | BCF | 28d | 200 | | Cyprinus caprio | OECD 305 (Bioconcentr ation - Flow- Through | mide). Not to be expected, Analogous conclusion |
| | | <u> </u> | | | | | waste water. | 12.4. Mobility in soil: | H (Henry) | | 0,02 29 | Pa*m 3/mol | | Fish Test) | |
| | | | | | | | | 12.5. Results of PBT and vPvB assessment | (Helliy) | | 29 | 3/1101 | | | No PBT substance, No vPvB substance |
| | | | | | | | | Toxicity to bacteria: | EC50 | 3h | >10 0 | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium | Analogous conclusion |
| | | | | | | | | Other organisms: | NOEC/N OEL | 14d | >10 00 | mg/k g | Avena sativa | Oxidation)) OECD 208 (Terrestrial Plants, Growth Test) | Analogous conclusion |



| NOEC/N OEL NOEC/N OEL NOEC/N OEL NOEC/N OEL Politicopy Endpoint L LC50 | 14d | >10 0 >10 00 >10 00 >10 00 | mg/l mg/k g mg/k g | Avena sativa Lactuca sativa Lumbricus terrestris Organism Brachydanio | (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) OECD 208 (Terrestrial Plants, Growth Test) OECD 208 (Terrestrial Plants, Growth Test) OECD 207 (Earthworm, Acute Toxicity Tests) | Notes Analogo |
|--|--|--|---|---|--|--|
| NOEC/N OEL NOEC/N OEL NOEC/N OEL NOEC/N OEL | 14d 14d 14d | >10 00 >10 00 >10 00 | mg/k 9 mg/k 9 | Avena sativa Lactuca sativa | (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) OECD 208 (Terrestrial Plants, Growth Test) OECD 208 (Terrestrial Plants, Growth Test) OECD 207 (Earthworm, Acute Toxicity Toxicity | |
| NOEC/N OEL NOEC/N OEL | 14d | >10 00 >10 00 | mg/k g mg/k g | Avena sativa Lactuca sativa | (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) OECD 208 (Terrestrial Plants, Growth Test) OECD 208 (Terrestrial Plants, Growth Test) OECD 207 (Tearthworm, Acute Acute Acute Acute Acute Acute Number Acute Acute Number Acute Acute Acute Number Number Acute Number Nu | |
| NOEC/N OEL NOEC/N | 14d | >10 00 >10 | mg/k g | sludge Avena sativa | (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) OECD 208 (Terrestrial Plants, Growth Test) OECD 208 (Terrestrial Plants, Plant | |
| NOEC/N | | >10 | mg/k | sludge | (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) OECD 208 (Terrestrial Plants, Growth | |
| | | 0 | | sludge | (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) | |
| EC50 [⊤] | 3n i | >10 1 | ma/l | | | |
| | O. | | | activated | OECD 209 | No vPvE substan No PBT substan |
| | → ∠U | ×14 | | carpio | (Bioconcentr ation - Flow- Through Fish Test) | expecte |
| BCF | 42d | <14 | | Cvorinus | (11)) | experier available to date, polycart ide is in and non degrada With water at the interface transfor of CO2 into a fir insoluble reaction product with a hi melting point (polycar mide). Not to b. Not to b. |
| | 28d | 0 | % | activated sludge | OECD 302 C (Inherent Biodegradab ility - Modified | Not biodegra ble, Accordin to |
| ErC50 | 72h | >16 40 | mg/l | Scenedesm us subspicatus | OECD 201 (Alga, Growth Inhibition | |
| EC50 | 24h | >10 00 | mg/l | Daphnia magna | n Test) OECD 202 (Daphnia sp. Acute Immobilisati | |
| NOEC/N OEL | 21d | >=1 0 | mg/l | Daphnia magna | Test) OECD 211 (Daphnia magna | |
| LC50 | 96h | >10 00 | mg/l | Brachydanio rerio | OECD 203 (Fish, Acute | |
| Endpoin | Tim | Valu | mologues Unit | Organism | Test | Notes |
| NOEC/N OEL | 14d | >10 00 | mg/k g | Eisenia foetida | OECD 207 (Earthworm, Acute Toxicity Tests) | Analogo conclusi |
| NOEC/N OEL | 14d | >10 00 | mg/k g | Lactuca sativa | OECD 208 (Terrestrial Plants, Growth Test) | Analogo |
| 3) weißgrün) | | | | | | |
| n: 01.11.202 ed / version l 2021) 1 | 21 / 0013 | 3 | | , Annex II | | |
| | weißgrün) NOEC/N OEL NOEC/N OEL REdpoin LC50 ROSC/N OEL ROSC/N | i: 01.1.2021 / 0013 ed / version: 02.08.2 2001 i | i: 01.11.2021 / 0013 ed / version: 02.08.2021 / 001 2021 01 03 Weeißgrün | Compared Compared | Moder Mode | Comparate Comp |

| 12.1. Toxicity to | NOEC/N | 21d | >10 | mg/l | Daphnia | OECD 202 | Analogous |
|---|---------------|----------|-----------|-----------|--------------------------------|--|---|
| daphnia: | OEL | 210 | >10 | mg/i | magna | (Daphnia sp. Acute Immobilisati | conclusion |
| 12.1. Toxicity to | EC50 | 24h | >10 | mg/l | Daphnia | on Test) OECD 202 | Analogous |
| daphnia: | | | 00 | Ü | magna | (Daphnia sp. Acute Immobilisati on Test) | conclusion |
| 12.1. Toxicity to algae: | EC50 | 72h | >16 40 | mg/l | Scenedesm us subspicatus | OECD 201 (Alga, Growth Inhibition Test) | Analogous conclusion |
| 12.2. Persistence and degradability: | | 28d | 0 | % | activated studge | OECD 302 C (Inherent Biodegradab ility - Modified MITI Test (II)) | With water at the interface, transforms slowly with formation of CO2 into a firm, insoluble reaction product with a high melting point (polycarba mide). According to experience available to date, polycarbam ide is inert and non-degradable Analogous conclusion |
| 12.3. Bioaccumulative potential: | Log Pow | | 5,22 | | | | A notable biological accumulati on potential has to be expected (LogPow > 3). |
| 12.3. Bioaccumulative potential: | BCF | 28d | 200 | | Cyprinus caprio | OECD 305 (Bioconcentr ation - Flow- Through Fish Test) | Not to be expected, Analogous conclusion |
| 12.4. Mobility in | H | | 0,02 | Pa*m | | Tion rest) | |
| soil: 12.5. Results of PBT and vPvB assessment | (Henry) | | 29 | 3/mol | | | No PBT substance, No vPvB substance |
| Toxicity to bacteria: | EC50 | 3h | >10 0 | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) | Analogous conclusion |
| Other organisms: | NOEC/N OEL | 14d | >10 00 | mg/k g | Avena sativa | OECD 208 (Terrestrial Plants, Growth Test) | Analogous conclusion |
| Other organisms: | NOEC/N OEL | 14d | >10 00 | mg/k g | Lactuca sativa | OECD 208 (Terrestrial Plants, Growth Test) | Analogous conclusion |
| Toxicity to annelids: | NOEC/N OEL | 14d | >10 00 | mg/k g | Eisenia foetida | OECD 207 (Earthworm, Acute Toxicity Tests) | Analogous conclusion |
| Dibutyltin dilaurate | | | | | | | |
| Toxicity / effect | Endpoin t | Tim e | Valu e | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to algae: | EC50 | 72h | >1 | mg/l | Desmodesm us subspicatus | OECD 201 (Alga, Growth Inhibition | |

| Dibutyltin dilaurate | | | | | | | |
|--|--------------|----------|-----------|------|--------------------------------|--|----------------------------------|
| Toxicity / effect | Endpoin t | Tim e | Valu e | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to algae: | EC50 | 72h | >1 | mg/l | Desmodesm us subspicatus | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.2. Persistence and degradability: | | 28d | 22 | % | | OECD 301 F (Ready Biodegradab ility - Manometric Respirometr y Test) | Not readily biodegrada ble |

| Toxicity / effect | Endpoin | Tim | Valu | Unit | Organism | Test | Notes |
|----------------------------|---------|-----|----------|------|----------------------------------|--------|-------------------------|
| | t | е | е | | | method | |
| 12.1. Toxicity to fish: | LC50 | 96h | 134 | mg/l | Pimephales promelas | | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | >95 2 | mg/l | Daphnia magna | | Analogous conclusion |
| 12.1. Toxicity to algae: | EC50 | 96h | >99 6 | mg/l | Selenastrum capricornut um | | Analogous conclusion |



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Replacing version dated / version: 02.08.2021 / 0012

Valid from: 01.11.2021 PDF print date: 01.11.2021 COSMO® PU-160.160 COSMO® PU-160.161 COSMO® PU-160.163

(COSMOPUR 812.60 weißgrün)

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.

The waste codes are recommendations based on the scheduled use of this product Owing to the user's specific conditions for use and disposal, other waste codes may be

allocated under certain circumstances. (2014/955/EU)

allocated under certain circumstances. (2014/955/EU)

80 A0 40 9w asste adhesives and sealants containing organic solvents or other hazardous substances

80 50 1 waste isocyanates

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. suitable incineration plant.
Hardened product:
E.g. dispose at suitable refuse site.

For contaminated packing material

Pay attention to local and national Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

15 01 10 packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

Not applicable

General statements

Transport by road/by rail (ADR/RID)

14.1 LIN number or ID num Not applicable 14.1. UN proper shipping name:
Not applicable
14.3. Transport hazard class(es):

14.3. Transport hazard class(14.4. Packing group: 14.5. Environmental hazards: Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Tunnel restriction code: Classification code:

Transport category:

Transport by sea (IMDG-code)
14.1. UN number or ID number: Not applicable

14.2. UN proper shipping name:

Not applicable

14.3. Transport hazard class(es):
14.4. Packing group:
14.5. Environmental hazards: Not applicable Not applicable Not applicable Marine Pollutant: Not applicable

EmS: Not applicable Transport by air (IATA) Not applicable

14.1. UN number or ID number:
14.2. UN proper shipping name:
Not applicable
14.3. Transport hazard class(es):
14.4. Packing group:
14.5. Environmental hazards: Not applicable Not applicable Not applicable

14.6. Special precautions for user

nerwise, general measures for safe transport must be followed

14.7. Maritime transport in bulk according to IMO instruments

Non-dangerous material according to Transport Regulation

SECTION 15: Regulatory information

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

Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)!

Regulation (EC) No 1907/2006, Annex XVII
4,4'-methylenediphenyl diisocyanate
o(p-isocyanatobenzyl)phenyl isocyanate
Diphenylmethanediisocyanate, isomeres and homologues

Dibutvltin dilaurate

2,2'-methylenediphenyl diisocyanate

Regulation (EU) No 649/2012 'concerning the export and import of hazardous chemicals' must be adhered to, as the product contains a substance that falls within the scope of this Regulation.

Comply with national regulations/laws governing maternity protection (national implementation of the Directive

Comply with trade association/occupational health regulations

Directive 2010/75/ELL(VOC):

National requirements/regulations on safety and health protection must be applied when using work

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures

SECTION 16: Other information

Revised sections: These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

| Classification in accordance with regulation (EC) No. 1272/2008 (CLP) | Evaluation method used |
|---|--|
| Eye Irrit. 2, H319 | Classification according to calculation procedure. |
| STOT SE 3, H335 | Classification according to calculation procedure. |
| Skin Irrit. 2, H315 | Classification according to calculation procedure. |
| Resp. Sens. 1, H334 | Classification according to calculation procedure. |
| Skin Sens. 1, H317 | Classification according to calculation procedure. |
| Carc. 2, H351 | Classification according to calculation procedure. |
| Aquatic Chronic 3, H412 | Classification according to calculation procedure. |
| STOT RE 2, H373 | Classification according to calculation procedure. |

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents. H314 Causes severe skin burns and eye damage.

H360FD May damage fertility. May damage the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure by inhalation.
H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H317 May cause an altergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.

H341 Suspected of causing genetic defects.
H351 Suspected of causing cancer.
H370 Causes damage to organs.
H372 Causes damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Eye Irrit. — Eye Irritation
STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation
Skin Irrit. — Skin irritation
Resp. Sens. — Respiratory sensitization
Skin Sens. — Skin sensitization

Skin Sens. — Skin sensitization
Carc. — Carcinogenicity
Aquatic Chronic — Hazardous to the aquatic environment - chronic
STOT RE — Specific target organ toxicity - repeated exposure
Acute Tox. — Acute toxicity - inhalation
Skin Corr. — Skin corrosion
Eye Dam. — Serious eye damage

Eye Dail. — Genicus eye uaniage Muta. — Germ cell mutagenicity Repr. — Reproductive toxicity STOT SE — Specific target organ toxicity - single exposure Aquatic Acute — Hazardous to the aquatic environment - acute

Acute Tox. — Acute toxicity - dermal

Key literature references and sources

for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended. Guidelines for the preparation of safety data sheets as amended (ECHA). Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances

ECHA Homepage - Information about chemicals. GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany). EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

Any abbreviations and acronyms used in this document:

acc., acc. to according, according to

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOX Adsorbable organic halogen compounds

approx

Art., Art. no.Article number ASTM ASTM Internat ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate BAM

Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)
BAuA Bundesan
and Safety, Germany) many) Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health

Bioconcentration factor BCF BSEF The International Bromine Council

body weight
CAS Chemical Abstracts Service
CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures) CMR

carcinogenic, mutagenic, reproductive toxic Derived Minimum Effect Level DMEL DNEL DOC dw Derived No Effect Level Dissolved organic carbon

dry weight for example (abbreviation of Latin 'exempli gratia'), for instance

EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass

(algae, plants) European Community

ECHA European Community

ECHA European Chemicals Agency

ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect

EEC European Economic Community

EINECS

ELINCS

European Inventory of Existing Commercial Chemical Substances
European List of Notified Chemical Substances
European Norms
United States Environmental Protection Agency (United States of America) EPA



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Replacing version dated / version: 02.08.2021 / 0012
Valid from: 01.11.2021
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COSMO® PU-180.180
COSMO® PU-180.180 COSMO® PU-160.161 COSMO® PU-160.163 (COSMOPUR 812.60) (COSMOPUR 812.60 weißgrün) ErCx, E μ Cx, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate etc. et cetera
EU European Union
EVAL Ethylene-vinyl alcohol copolymer EVAL Etnylene-vinyl alcohol copolymer Fax. Fax number gen. general GHS Globally Harmonized System of Classification and Labelling of Chemicals GWP Global warming potential Koc Adsorption coefficient of organic carbon in the soil octanol-water partition coefficient International Agency for Research on Cancer International Alf Transport Association International Harmonized International General General International General Fax. Fax number International Convention for the Prevention of Marine Pollution from Ships not applicable not available not checked MARPOL n.a. n.av. n.c. n.d.a. no data available National Institute for Occupational Safety and Health (USA) NIOSH NIDST No-longer-Polymer
NOEC, NOEL No Observed Effect Concentration/Level
OECD Organisation for Economic Co-operation and Development org. OSHA organic Occupational Safety and Health Administration (USA) persistent, bioaccumulative and toxic Polyethylene Predicted No Effect Concentration parts per million Polyvinylchloride Polyticstrice Evolution Authorication PBT PΕ PNEC ppm PVC REACH PVC Polyvinylchloride
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No
1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)
REACH-IT List-No. 9xxxxxx No. is automatically assigned, e.g. to pre-registrations without a CAS
No. or other numerical identifiers. List Numbers do not have any legal significance, rather they are purely
technical identifiers for processing a submission via REACH-IT.

RID Règlement concernant le transport International ferrovaire de marchandises Dangereuses (= Substances of Very High Concern
Telephone
Total organic carbon
UN RTDG
Volatile organic compounds
VOC
VPVB
wt
Volatile organic compounds
very persistent and very bioaccumulative
wt
Volatile organic compounds
very persistent and very bioaccumulative
wt
Volatile organic compounds
very persistent and very bioaccumulative
very persistent and very bioaccumulative wet weight The statements made here should describe the product with regard to the necessary safety precautions - they

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