

| B Page 1 of 8 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 11.09.2019 / 0011 Replacing version dated / version: 29.03.2019 / 0010 Valid from: 11.09.2019 PDF print date: 12.09.2019 ferax 20-1K-PUR-Konstruktionsklebstoff | 2.3 Other hazards The mixture does not contain any vPvB substance (vPvB = v included under XIII of the regulation (EC) 1907/2006 (< 0,1 %) The mixture does not contain any PBT substance (PBT = pe under XIII of the regulation (EC) 1907/2006 (< 0,1 %). | ó). |
|---|---|--|
| Safety data sheet according to Regulation (EC) No 1907/2006, Annex II | SECTION 3: Composition/info | ormation on ingredients |
| SECTION 1: Identification of the substance/mixture and of the | 3.1 Substance | |
| company/undertaking | 3.2 Mixture | |
| oompany/andortaking | 4,4'-methylenediphenyl diisocyanate | |
| | Registration number (REACH) | 01-2119457014-47-XXXX |
| 1.1 Product identifier | | 615-005-00-9 |
| ferax 20-1K-PUR-Konstruktionsklebstoff | EINECS, ELINCS, NLP CAS | 202-966-0 101-68-8 |
| | content % | 5-15 |
| 1.2 Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses of the substance or mixture: Adhesive Sector of use [SU]: SU21 - Consumer uses: Private households (=general public = consumers) Uses advised against: No information available at present. | Classification according to Regulation (EC) 1272/2008 (CLP) | Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H315 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT RE 3, H335 STOT RE 2, H373 (respiratory system) (as inhalation) |
| 1.3 Details of the supplier of the safety data sheet | Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate | |
| | Registration number (REACH) | 01-2119457015-45-XXXX |
| ferax e.K., Ringstraße 16, 86653 Monheim, Germany | Index EINECS, ELINCS, NLP | 905-806-4 (REACH-IT List-No.) |
| Phone: +49 (0) 90 91 / 907 997 - 0, Fax: +49 (0) 90 91 / 907 997 - 99 | CAS | 905-806-4 (REACH-IT LIST-NO.) |
| info@ferax.de, www.ferax.de | content % | 5-15 |
| 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: | Classification according to Regulation (EC) 1272/2008 (CLP) | Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Acute Tox. 4, H332 Resp. Sens. 1, H334 STOT SE 3, H335 Carc. 2, H351 STOT RE 2, H373 (respiratory system) (as inhalation) |
| +49 (0) 700 / 24 112 112 (WIC) | | |
| | Methylenediphenyl diisocyanate, modified | 01 0110 1570 10 10 10 10 10 10 |
| SECTION 2: Hazards identification | Registration number (REACH) Index | 01-2119457013-49-XXXX |
| | EINECS, ELINCS, NLP | 500-040-3 (NLP) |
| 2.1 Classification of the substance or mixture | CAS | 25686-28-6 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | content % | 5-15 |
| Hazard class Hazard category Hazard statement Eye Irrit. 2 H319-Causes serious eye irritation. STOT SE 3 H335-May cause respiratory irritation. Skin Irrit. 2 H319-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. | Classification according to Regulation (EC) 1272/2008 (CLP) | Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Acute Tox. 4, H332 Resp. Sens. 1, H334 STOT SE 3, H335 Carc. 2, H351 STOT RE 2, H373 (respiratory system) (as inhalation) |
| Carc. 2 H351-Suspected of causing cancer. | Propylene carbonate | |
| STOT RE 2 H373-May cause damage to organs through | Registration number (REACH) | 01-2119537232-48-XXXX |
| prolonged or repeated exposure by | Index EINECS, ELINCS, NLP | 607-194-00-1 203-572-1 |
| inhalation (respiratory system). | CAS | 108-32-7 |
| | content % | 1-5 |
| 2.2 Label elements | Classification according to Regulation (EC) 1272/2008 | Eye Irrit. 2, H319 |
| Labeling according to Regulation (EC) 1272/2008 (CLP) | (CLP) | |
| | Dibutyltin dilaurate | |
| | Registration number (REACH) | 01-2119496068-27-XXXX |
| | Index | 050-030-00-3 |
| | EINECS, ELINCS, NLP | 201-039-8 77-58-7 |
| | CAS content % | 0,1-<0,25 |
| 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- | Classification according to Regulation (EC) 1272/2008 (CLP) | Muta. 2, H341 Repr. 1B, H360FD Skin Corr. 1C, H314 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) Skin Sens. 1, H317 STOT SE 1, H370 STOT SE 1, H372 (immune system) Eye Dam. 1, H318 |
| May cause an allergic skin reaction. H351-Suspected of causing cancer. H373-May cause damage to organs through prolonged or repeated exposure by inhalation (respiratory system). P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children. | For the text of the H-phrases and classification codes (GHS/ The substances named in this section are given with their ac For substances that are listed in appendix VI, table 3.1 of the this means that all notes that may be given here for the name | tual, appropriate classification! regulation (EC) no. 1272/2008 (CLP regulation) ad classification have been taken into account. |
| P201-Obtain special instructions before use. P260-Do not breathe vapours or spray. P271-Use only outdoors or in a well-ventilated area. P280-Wear protective gloves / protective clothing / eye | SECTION 4: First a | ia measures |
| profection / face protection. P284-Wear respiratory protection. P302+P352-IF ON SKIN: Wash with plenty of water and 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. P405-Store locked up. P501-Dispose of contents / container to an approved waste disposal facility. | 4.1 Description of first aid measures First-aiders should ensure they are protected! Never pour anything into the mouth of an unconscious perso Inhalation Remove person with fresh air and consult doctor according to | |
| EUH204-Contains isocyanates. May produce an allergic reaction. | If the person is unconscious, place in a stable side position a | nd consult a doctor. |
| 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. Dibutyfin dilaurate 4,4'-methylenediphenyl diisocyanate Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl | Respiratory arrest - Artificial respiration apparatus necessary Skin contact Wipe off residual product carefully with a soft, dry cloth. Remove polluted, soaked clothing immediately, wash thorou 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 - c | ghly with plenty of water and soap, in case of |
| isocyanate Mathulanadinhanyi diisocyanate modified | Ingestion Binse the mouth thoroughly with water. | |

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

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. Dibutyltin diaurate 4,4'-methylenediphenyl diisocyanate Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate Methylenediphenyl diisocyanate, modified



| B Page 2 of 8 | Chemical Nam | e 4,4'-methyler | ediphenyl diisocyanat | Э | | _ | Content |
|--|--|--|--|--|--|---|--------------------|
| Safety data sheet according to Regulation (EC) No 1907/2006, Annex II | WEL-TWA: 0,02 mg | | WEL-STEL: 0,07 mg | | anates | | %:5-15 |
| Revision date / version: 11.09.2019 / 0011 Replacing version dated / version: 29.03.2019 / 0010 | all (as -NCO)) | | all (as -NCO)) | | | | |
| Valid from: 11.09.2019 | Monitoring procedures | | O 16702 (Workplace a ocyanate groups in air | ir quality – using 2-(1-r | determina nethoxypł | tion of total henylpipera | zine and |
| PDF print date: 12.09.2019 ferax 20-1K-PUR-Konstruktionsklebstoff | | - liq M | uid chromatography) - DHS 25/3 (Organic iso | 2001 cvanates in | air – Lab | oratory met | hod using |
| 4.2 Most important symptoms and effects, both acute and delayed | | sa | mpling either onto 2-(1 | - methoxyp | henylpipe | erazine coate | ed glass |
| If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. | | an | re filters followed by se alysis using high perfo | rmance liqu | uid chroma | atography) - | rs and - 1999 - |
| The following may occur: Dermatitis (skin inflammation) | BMGV: 1 umol isocy | - El anate-derived diamine/r | J project BC/CEN/ENT | | 2-16 card nformatior | | |
| Drying of the skin. Allergic contact eczema | (At the end of the period | | | | | (as -NCO)) | |
| Discoloration of the skin | GB Chemical Nam | | ss of 4,4'-methylenedip | | cyanate a | nd o-(p- | Content |
| Irritant to mucosa of the nose and throat Coughing | WEL-TWA: 0,02 mg | /m3 (Isocyanates, | nzyl)phenyl isocyanate WEL-STEL: 0,07 mg | e I/m3 (Isocya | anates, | | %:5-15 |
| Headaches Effect on the central nervous system | all (as -NCO)) Monitoring procedures | | all (as -NCO)) | | | | |
| Asthmatic symptoms | BMGV: 1 µmol isocy (At the end of the period | anate-derived diamine/r | | | nformation | | |
| In case of sensitivity, concentrations below the limit value may already result in asthmatic symptoms. Respiratory distress | | | | | nates, all | (as -NCO)) | |
| 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 | GB Chemical Nam | e Methylenedip | henyl diisocyanate, m | odified | | | Content %:5-15 |
| In case of irritation of the lungs, perform first-aid with controlled-dosage aerosol dexamethasone. | WEL-TWA: 0,02 mg all (as -NCO)) | | WEL-STEL: 0,07 mg all (as -NCO)) | /m3 (Isocya | anates, | | |
| Pulmonary oedema prophylaxis Medical supervision necessary due to possibility of delayed reaction. | Monitoring procedures | : M | DHS 25/3 (Organic iso | | | | |
| SECTION 5: Firefighting measures | | fib | mpling either onto 2-(1 re filters followed by se | olvent deso | rption or ir | nto impinger | rs and |
| | | - an IS | alysis using high perfo O 16702 (Workplace a | rmance liqu ir quality – | uid chroma determina | atography) - ation of total | - 1999 |
| 5.1 Extinguishing media | | iso | ocyanate groups in air uid chromatography) - | using 2-(1-r | | | |
| Suitable extinguishing media | | anate-derived diamine/r | nol creatinine in urine | | nformatior | n: | |
| CO2 Extinction powder | (At the end of the period | | | | | | |
| Foam | GB Chemical Nam | e Dibutyltin dila | lurate | | | | Content %:0,1- |
| Water jet spray Unsuitable extinguishing media | | 2 (Ca) (tia | | | | | <0,25 |
| High volume water jet | WEL-TWA: 0,1 mg/r compounds, organic) | | WEL-STEL: 0,2 mg/ compounds, organic) | າາວ (ວາາ) (tiñ | | | |
| 5.2 Special hazards arising from the substance or mixture In case of fire the following can develop: | Monitoring procedures BMGV: | : | | Other i | nformatior | n: Sk (Sn) | (tin |
| Oxides of carbon Oxides of nitrogen | | | | | unds, orga | | |
| Isocyanates | GB Chemical Nam | e Silica, amorp | hous | 1 | | | Content |
| Hydrocyanic acid (hydrogen cyanide) Toxic gases | | | | | | | %: |
| Danger of bursting (explosion) when heated 5.3 Advice for firefighters | WEL-TWA: 6 mg/m3 2,4 mg/m3 (resp. dust | | WEL-STEL: | | | | |
| In case of fire and/or explosion do not breathe fumes. | Monitoring procedures BMGV: | | | Other i | nformatior | n: | |
| Protective respirator with independent air supply. According to size of fire | | e Calcium carb | opoto | | | 1 | Content |
| Full protection, if necessary. Cool container at risk with water. | GB Chemical Nam | | | | | | %: |
| Dispose of contaminated extinction water according to official regulations. | WEL-TWA: 4 mg/m3 10 mg/m3 (total inhala | | WEL-STEL: | | | | |
| SECTION 6: Accidental release measures | Monitoring procedures | : | | | | | |
| | BMGV: | | | Other in | nformatior | n: | |
| | BMGV: | | | Other in | nformatior | n: | |
| 6.1 Personal precautions, protective equipment and emergency procedures | | nyl diisocyanate | | Other in | nformatio | n: | |
| 6.1 Personal precautions, protective equipment and emergency procedures Ensure sufficient supply of air. Avoid inhalation, and contact with eyes or skin. | BMGV: 4,4'-methylenedipher Area of application | Exposure route / | Effect on | Descri | Valu | n: Unit | Note |
| 6.1 Personal precautions, protective equipment and emergency procedures Ensure sufficient supply of air. Avoid inhalation, and contact with eyes or skin. If applicable, caution - risk of slipping. | 4,4'-methylenedipher | Exposure route / Environmental compartment | Effect on health | Descri ptor | | | Note |
| 6.1 Personal precautions, protective equipment and emergency procedures Ensure sufficient supply of air. Avoid inhalation, and contact with eyes or skin. If applicable, caution - risk of slipping. 6.2 Environmental precautions If leakage occurs, dam up. | 4,4'-methylenedipher | Exposure route / Environmental compartment Environment - | | Descri | Valu | | Note |
| 6.1 Personal precautions, protective equipment and emergency procedures Ensure sufficient supply of air. Avoid inhalation, and contact with eyes or skin. If applicable, caution - risk of slipping. 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. | 4,4'-methylenedipher | Exposure route / Environmental compartment Environment - freshwater Environment - | | Descri ptor | Valu e | Unit | Note |
| 6.1 Personal precautions, protective equipment and emergency procedures Ensure sufficient supply of air. Avoid inhalation, and contact with eyes or skin. If applicable, caution - risk of slipping. 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. | 4,4'-methylenedipher | Exposure route / Environmental compartment Environment - freshwater Environment - marine Environment - | | Descri ptor PNEC | Valu e 1 | Unit mg/l | Note |
| 6.1 Personal precautions, protective equipment and emergency procedures Ensure sufficient supply of air. Avoid inhalation, and contact with eyes or skin. If applicable, caution - risk of slipping. 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 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 | 4,4'-methylenedipher | Exposure route / Environmental compartment Environment - freshwater Environment - marine | | Descri ptor PNEC PNEC | Valu e 1 0,1 | Unit mg/l mg/l | Note |
| 6.1 Personal precautions, protective equipment and emergency procedures Ensure sufficient supply of air. Avoid inhalation, and contact with eyes or skin. If applicable, caution - risk of slipping. 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 earth, sawdust) and dispose of according to Section 13. | 4,4'-methylenedipher | Exposure route / Environmental compartment Environment - freshwater Environment - marine Environment - sewage treatment | | Descri ptor PNEC PNEC | Valu e 1 0,1 | Unit mg/l mg/l mg/l | Note |
| 6.1 Personal precautions, protective equipment and emergency procedures Ensure sufficient supply of air. Avoid inhalation, and contact with eyes or skin. If applicable, caution - risk of slipping. 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. If accidental entry into drainage system. Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and | 4,4'-methylenedipher | Exposure route / Environmental compartment Environment - freshwater Environment - sewage treatment plant Environment - soil Environment - soil | | Descri ptor PNEC PNEC PNEC | Valu e 1 0,1 1 | Unit mg/l mg/l mg/l | Note |
| 6.1 Personal precautions, protective equipment and emergency procedures Ensure sufficient supply of air. Avoid inhalation, and contact with eyes or skin. If applicable, caution - risk of slipping. 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 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 earth, sawdust) and 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. | 4,4'-methylenediphee Area of application | Exposure route / Environmental compartment Environment - freshwater Environment - sewage treatment plant Environment - soil Environment - soil Environment - sporadic (intermittent) release | health | Descri ptor PNEC PNEC PNEC PNEC PNEC | Valu e 1 0,1 1 1 10 | Unit mg/l mg/l mg/kg dw mg/l | Note |
| 6.1 Personal precautions, protective equipment and emergency procedures Ensure sufficient supply of air. Avoid inhalation, and contact with eyes or skin. If applicable, caution - risk of slipping. 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. 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 earth, sawdust) and 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 | 4,4'-methylenediphee Area of application | Exposure route / Environmental compartment Environment - freshwater Environment - marine Environment - sewage treatment plant Environment - soil Environment - soil Environment - sporadic (intermittent) release Human - oral | health health Short term, systemic effects | Descri ptor PNEC PNEC PNEC PNEC PNEC DNEL | Value 1 0,1 1 1 20 | Unit mg/l mg/l mg/kg dw mg/l mg/kg bw/day | Note |
| 6.1 Personal precautions, protective equipment and emergency procedures Ensure sufficient supply of air. Avoid inhalation, and contact with eyes or skin. If applicable, caution - risk of slipping. 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. 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 earth, sawdust) and 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. | 4,4'-methylenediphee Area of application | Exposure route / Environmental compartment Environment - freshwater Environment - sewage treatment plant Environment - soil Environment - soil Environment - sporadic (intermittent) release | health health Short term, systemic effects Short term, | Descri ptor PNEC PNEC PNEC PNEC PNEC | Valu e 1 0,1 1 1 10 | Unit mg/l mg/l mg/kg dw mg/l mg/kg | Note |
| 6.1 Personal precautions, protective equipment and emergency procedures Ensure sufficient supply of air. Avoid inhalation, and contact with eyes or skin. If applicable, caution - risk of slipping. 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. 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 earth, sawdust) and 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 | 4,4'-methylenediphee Area of application | Exposure route / Environmental compartment Environment - freshwater Environment - marine Environment - sewage treatment plant Environment - soil Environment - soil Environment - sporadic (intermittent) release Human - oral | health health Short term, systemic effects Short term, local effects Short term, | Descri ptor PNEC PNEC PNEC PNEC PNEC DNEL | Value 1 0,1 1 1 20 | Unit mg/l mg/l mg/kg dw mg/l mg/kg bw/day mg/cm 2 mg/kg | Note |
| 6.1 Personal precautions, protective equipment and emergency procedures Ensure sufficient supply of air. Avoid inhalation, and contact with eyes or skin. If applicable, caution - risk of slipping. 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. If accidental entry into drainage system. If accidental entry into drainage system. Soak up with absorbent material if or containment and cleaning up Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and 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. | 4,4'-methylenediphee Area of application | Exposure route / Environmental compartment Environment - freshwater Environment - marine Environment - sewage treatment plant Environment - soil Environment - soil Environment - sporadic (intermittent) release Human - oral Human - dermal | health health Short term, systemic effects Short term, local effects Short term, systemic effects Short term, | Descri ptor PNEC PNEC PNEC PNEC PNEC DNEL | Value 1 0,1 1 10 20 17,2 | Unit mg/l mg/l mg/kg dw mg/kg bw/day mg/kg bw/day | Note |
| 6.1 Personal precautions, protective equipment and emergency procedures Ensure sufficient supply of air. Avoid inhalation, and contact with eyes or skin. If applicable, caution - risk of slipping. 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 accidential entry into drainage system. Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and 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 | 4,4'-methylenedipher Area of application | Exposure route / Environmental compartment Environment - freshwater Environment - marine Environment - sewage treatment plant Environment - soil Environment - soil Environment - soil Environment - soil Human - dermal Human - dermal | health health Short term, systemic effects Short term, local effect Short term, local effect Short term, local effect Shor | Descri ptor PNEC PNEC PNEC PNEC PNEC DNEL DNEL | Value 1 0,1 1 0,1 1 10 10 20 17,2 25 | Unit mg/l mg/l mg/l mg/kg dw mg/l mg/kg bw/day mg/cm mg/kg bw/day | Note |
| 6.1 Personal precautions, protective equipment and emergency procedures Ensure sufficient supply of air. Avoid inhalation, and contact with eyes or skin. If applicable, caution - risk of slipping. 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 earth, sawdust) and 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. Im 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 | 4,4'-methylenedipher Area of application Consumer Consumer Consumer Consumer Consumer Consumer | Exposure route / Environmental compartment Environment - freshwater Environment - sewage treatment plant Environment - soil Environment - soil Environment - soil Environment - soil Human - oral Human - dermal Human - dermal Human - inhalation Human - inhalation | health he | Descri ptor PNEC PNEC PNEC PNEC PNEC DNEL DNEL DNEL DNEL | Value 1 0,1 1 20 17,2 25 0,05 | Unit mg/l mg/l mg/kg dw mg/kg bw/day mg/kg bw/day mg/kg bw/day mg/m3 | Note |
| 6.1 Personal precautions, protective equipment and emergency procedures Ensure sufficient supply of air. Avoid inhalation, and contact with eyes or skin. If applicable, caution - risk of slipping. 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 accidential entry into drainage system. If accidentiation in closed tanks causes pressure to rise. If Aceference to other sections For personal protective equipment see Section 8 and for disposal instructions see Section 13. If accidential entry into acciden | 4,4'-methylenediphee Area of application | Exposure route / Environmental compartment Environment - freshwater Environment - sewage treatment plant Environment - soradic (intermittent) release Human - oral Human - dermal Human - dermal Human - inhalation Human - inhalation | health he | Descri ptor PNEC PNEC PNEC PNEC PNEC DNEL DNEL DNEL DNEL DNEL | Value 1 0,1 1 0 1 10 20 17,2 25 0,05 0,05 0,02 | Unit mg/l mg/l mg/kg dw mg/kg bw/day mg/kg bw/day mg/kg bw/day mg/m3 mg/m3 | Note |
| 6.1 Personal precautions, protective equipment and emergency procedures Ensure sufficient supply of air. Avoid inhalation, and contact with eyes or skin. If applicable, caution - risk of slipping. 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 surface and ground-water infiltration, as well as ground penetration. Prevent surface and ground-water infiltration, as well as ground penetration. Prevent surface and ground-water infiltration, as well as ground penetration. Prevent surface and ground-water infiltration, as well as ground penetration. Prevent surface and ground-water infiltration, as well as ground penetration. Prevent surface and ground-water infiltration, as well as ground penetration. Prevent surface and ground-water infiltration, as well as ground penetration. Prevent surface and ground-water infiltration, as well as ground penetration. Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and 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. Soak 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 T.1 General recommendations Ensure good ventilation. Avoid inhalation of the vapours. If applicable, suction measures at the workstation or on the processing machine necessary. | 4,4'-methylenedipher Area of application | Exposure route / Environmental compartment Environment - freshwater Environment - marine Environment - sewage treatment plant Environment - soradic (intermittent) release Human - oral Human - dermal Human - dermal Human - inhalation Human - inhalation Human - inhalation | health he | Descri ptor PNEC PNEC PNEC PNEC PNEC DNEL DNEL DNEL DNEL DNEL DNEL | Value 1 0,1 1 0 1 10 20 17,2 25 0,05 0,05 0,02 5 0,02 5 | Unit mg/l mg/l mg/kg dw mg/kg bw/day mg/kg bw/day mg/kg bw/day mg/m3 | Note |
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| Al Personal precautions, protective equipment and emergency procedures Ensure sufficient supply of air. Avoid inhalation, and contact with eyes or skin. If applicable, caution - risk of slipping. 3. Second and the 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 occurs, inform responsible authorities. 3. Al Methods and material (e.g., universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13. Allow to stand for a few days in an unclosed container until reaction no longer occurs. Rep molis. Do not lose packing drum. C.2 formation in closed tanks causes pressure to rise. 3. Afeference to other sections The personal protective equipment see Section 8 and for disposal instructions see Section 13. Allow to stand for a few days in an unclosed container until reaction no longer occurs. Rep molis. Do not lose packing drum. C.2 formation in closed tanks causes pressure to rise. 3. Afeference to other sections The personal protective equipment see Section 8 and for disposal instructions see Section 13. Allow to stand for a few days in a his section, relevant information can also be found in section 8 and 6.1. 3. Precautions for safe handling Allow to stand the or sections The general economendations The section 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. Setting instructions for use. The source of the adding of chemicals are applicable. May hands before breaks and at end of work. Teap away from food, driv and aminal feedingstuff. Rep ord for down find and aminal feedingstuff. Rep ord for for direct sunlight and tengengstuff. Rep ord for for direct sunlight and tengengstuff. Rep ord for direct sunlight and tengengstuff. Rep ord for direct sunlight and tengengstuf | 4,4'-methylenedipher Area of application Consumer Consume | Exposure route / Environmental compartment Environment - freshwater Environment - sewage treatment plant Environment - soradic (intermittent) release Human - oral Human - dermal Human - dermal Human - inhalation Human - inhalation Human - inhalation Human - inhalation Human - dermal Human - dermal Human - inhalation Human - inhalation | health he | Descri ptor PNEC PNEC PNEC PNEC PNEC DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL | Valu 1 0,1 1 1 10 20 17,2 25 0,05 0,05 0,05 0,05 0,05 0,01 0,05 0,02 5 0,1 0,1 0,05 0,05 0,05 0,05 0,05 0,05 0,05 0,05 0,05 0,05 0,05 0,05 0,05 | Unit mg/l mg/l mg/l mg/kg dw mg/kg bw/day mg/kg bw/day mg/kg bw/day mg/m3 mg/m3 mg/m3 mg/m3 mg/m3 mg/m3 mg/m3 mg/m3 mg/m3 mg/m3 mg/m3 mg/m3 mg/m3 | yanate |
| 6.1 Personal precautions, protective equipment and emergency procedures Ensure sufficient supply of air. Avoid inhalation, and contact with eyes or skin. If applicable, caution - risk of slipping. 6.2 Environmental precautions If leakage occurs, dam up. Resolve leaks if this possible without risk. Prevent stratec 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 absorbert material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13. Allow to stand for a tew days in an unclosed container until reaction no longer occurs. Keep moist. 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. Co2 formation in closed tanks causes pressure to rise. 6.4 Reference to other sections For personal protective equipment see 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 General recommendations Fusue good ventilation. No contact with products of this type in case of allergies, asthma und chronic respiratory tract disorders. Eating, drinking, smoking, as well as lood-storage, is prohibited in work-room. Observe directions on label and instructions for use. Tobes on general hygiene measures of the handling of chemicals are applicable. Keep away form doil drive at and of work. Keep away form doil drive at and of work. Keep away form doil drive at an differences at the workstation or on the processing machine necessary. Tobes of general hygiene measures of the handling of chemicals are applicable. Keep away form doil drive at an differences at the workstate in work-room. Coberve directors on label and instructions for | 4,4'-methylenedipher Area of application Consumer Consume | Exposure route / Environmental compartment Environment - freshwater Environment - marine Environment - sewage treatment plant Environment - soradic (intermittent) release Human - oral Human - dermal Human - dermal Human - inhalation Human - inhalation Human - inhalation Human - dermal Human - dermal Human - dermal Human - inhalation Human - inhalation Environment - freshwater Environment - marine Environment - marine | health he | Descri ptor PNEC PNEC PNEC PNEC PNEC PNEC DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL | Valu 1 0,1 1 1 10 20 17,2 25 0,05 0,05 0,05 0,02 5 0,01 0,1 0,1 0,05 0,05 0,05 0,05 0,05 0,05 0,05 0,05 0,05 0,05 0,05 0,05 0,05 0,1 1 0,1 1 | Unit mg/l mg/l mg/l mg/kg dw mg/kg bw/day mg/kg bw/day mg/kg bw/day mg/m3 | yanate |



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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 11.09.2019 / 0011 Replacing version tatle / version: 11.05.2019 / 0011 Valid from: 11.09.2019 PDF print date: 12.09.2019 ferax 20-1K-PUR-Konstruktionsklebstoff

| Area of application | Exposure route / Environmental compartment | Effect on health | Descri ptor | Valu e | Unit | Note |
|------------------------|---|--------------------------------|----------------|-----------|-------|------|
| | Environment - sporadic | | PNEC | 9 | mg/l | |
| | (intermittent) release Environment - marine | | PNEC | 0,09 | mg/l | |
| | Environment - sediment, marine | | PNEC | 0,08 3 | mg/l | |
| | Environment - soil | | PNEC | 0,81 | mg/l | |
| | Environment - freshwater | | PNEC | 0,9 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 0,83 | mg/l | |
| | Environment - sewage treatment plant | | PNEC | 740 0 | mg/l | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 25 | mg/kg | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 25 | mg/kg | |
| Consumer | Human - inhalation | Long term, local effects | DNEL | 10 | mg/m3 | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 43,5 | mg/m3 | |
| Workers / | Human - inhalation | Long term, | DNEL | 176 | mg/m3 | |
| employees | | systemic effects | | | | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 50 | mg/kg | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 20 | mg/m3 | |

| Dibutyltin dilaurate | | | | | | |
|----------------------|------------------------------|--------------------------------|--------|-----------|-----------------|------|
| Area of application | Exposure route / | Effect on | Descri | Valu | Unit | Note |
| | Environmental compartment | health | ptor | е | | |
| | Environment - | | PNEC | 0,05 | mg/kg | |
| | sediment, freshwater | | | | wet | |
| | Environment - | | PNEC | 0.00 | weight mg/l | |
| | freshwater | | FINEC | 0,00 | iiig/i | |
| | neonwater | | | 3 | | |
| | Environment - | | PNEC | 0,00 | mg/l | |
| | marine | | | 004 | - | |
| | | | | 6 | | |
| | Environment - | | PNEC | 0,00 | mg/kg | |
| | sediment, marine | | | 5 | wet | |
| Consumer | Human - dermal | Short term. | DNEL | 0,5 | weight mg/kg | |
| Consumer | Human - German | systemic effects | DNEL | 0,5 | body | |
| | | | | | weight/ | |
| | | | | | day | |
| Consumer | Human - inhalation | Short term, | DNEL | 0,02 | mg/m3 | |
| | | systemic effects | | | | |
| Consumer | Human - oral | Short term, | DNEL | 0,01 | mg/kg | |
| | | systemic effects | | | body weight/ | |
| | | | | | day | |
| Consumer | Human - dermal | Long term, | DNEL | 0,08 | mg/kg | |
| | | systemic effects | | -, | body | |
| | | | | | weight/ | |
| | | | | | day | |
| Consumer | Human - inhalation | Long term, | DNEL | 0,00 | mg/m3 | |
| Consumer | Human - oral | systemic effects Long term, | DNEL | 3 0,00 | mg/kg | |
| Consumer | Human - orai | systemic effects | DINEL | 2 | body | |
| | | systemic chects | | 2 | weight/ | |
| | | | | | day | |
| Workers / | Human - dermal | Short term, | DNEL | 1 | mg/kg | |
| employees | | systemic effects | | | body | |
| | | | | | weight/ | |
| Workers / | Human - inhalation | Short term. | DNEL | 0,07 | day mg/m3 | |
| employees | riuman - innalation | systemic effects | DINEL | 0,07 | mg/ma | |
| Workers / | Human - dermal | Long term, | DNEL | 0,2 | mg/kg | |
| employees | | systemic effects | | -,= | body | |
| | | | | | weight/ | |
| | | | | | day | |
| Workers / | Human - inhalation | Long term, | DNEL | 0,01 | mg/m3 | |
| employees | | systemic effects | | | | |

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).
 (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference

2017/2393/EU. | WELSTEL = Workplace Exposure time control on a specific definition of the specific def the goal of revision

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

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. BS EN 14042. BS 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.

Eve/face protection: Tight fitting protective goggles with side protection (EN 166).

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

Recommended

Protective nitrile gloves (EN 374). Minimum layer thickness in mm: >= 0,35 Permeation time (penetration time) in minutes:

The beaking of the determined in accordance with EN 105251 were conditions. 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 and must be observed

8.2.3 Environmental exposure controls

No information available at present

SECTION 9: Physical and chemical properties

| 9.1 Information on basic physical and ch | |
|--|----------------------------|
| Physical state: | Pastelike, Liquid |
| Colour: | According to specification |
| Odour: | Characteristic |
| Odour threshold: | Not determined |
| pH-value: | Not determined |
| Melting point/freezing point: | Not determined |
| Initial boiling point and boiling range: | Not determined |
| Flash point: | Not determined |
| Evaporation rate: | Not determined |
| Flammability (solid, gas): | n.a. |
| Lower explosive limit: | Not determined |
| Upper explosive limit: | Not determined |
| Vapour pressure: | Not determined |
| Vapour density (air = 1): | Not determined |
| Density: | ~1,52 g/ml (20°C) |
| Bulk density: | n.a. |
| Solubility(ies): | Not determined |
| Water solubility: | Insoluble |
| Partition coefficient (n-octanol/water): | Not determined |
| Auto-ignition temperature: | n.a. |
| Decomposition temperature: | Not determined |
| Viscosity: | 67000 - 93000 mPas (25°C) |
| Explosive properties: | Product is not explosive. |
| Oxidising properties: | No |
| 9.2 Other information | |
| Miscibility: | Not determined |
| Fat solubility / solvent: | Not determined |
| Conductivity: | Not determined |
| Surface tension: | Not determined |
| Solvents content: | Not determined |

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: Carbon dioxide CO2 formation in closed tanks causes pressure to rise. Pressure increase will result in danger of bursting. 10.4 Conditions to avoid See also section 7. Protect from humidity. Polymerisation due to high heat is possible. T > 260°C 10.5 Incompatible materials See also section Acids Bases Amines Alcohols Water



| Safety data sheet accord Revision date / version: Replacing version dated Valid from: 11.09.2019 | 11.09.2019 / version: 2 | / 0011 | | 06, Annex II | | | Specific target organ toxicity - repeated exposure (STOT-RE): Specific target organ | LOAE | 0,2 | mg/m 3 | Rat | OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies) OECD 453 | Aerosol, Analogou conclusio Aerosol, |
|--|----------------------------|--------------|---|---|---|--|---|--------------------------------------|---------------------------------|---|---|---|---|
| PDF print date: 12.09.20 ferax 20-1K-PUR-Konstr 10.6 Hazardous de See also section 5.2 | uktionskleb | | ducts | | | | toxicity - repeated exposure (STOT-RE): | LOAE | 1 | | Rat | OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies) | Analogou conclusio |
| No decomposition when | used as dir | ected. | | | | | Specific target organ toxicity - single | | | | | | Target organ(s): |
| | | | | gical info | ormation | | exposure (STOT-SE), inhalative: | | | | | | respirator system, Irritation o the |
| 11.1 Information of Possibly more information | | | | (classification) |). | | | | | | | | respirator tract |
| ferax 20-1K-PUR-Konst | truktionskl | ebstoff | | | | | Specific target organ | | | | | | Target |
| Toxicity / effect | Endpo int | Value | Unit | Organis m | Test method | Notes | toxicity - repeated exposure (STOT-RE), | | | | | | organ(s): respirator |
| Acute toxicity, by oral | | | | | | n.d.a. | inhalat.: | | | | | | system, Positive |
| route: Acute toxicity, by | | | | | | n.d.a. | | | | | | | Positive |
| dermal route: | | | | | | | Reaction mass of 4,4'- | | | | | | |
| Acute toxicity, by inhalation: | ATE | >20 | mg/l/ 4h | | | calculated value, | Toxicity / effect | Endpo int | Value | Unit | Organis m | Test method | Notes |
| | | | | | | Vapours | Acute toxicity, by oral | LD50 | > 10000 | mg/k | Rat | | |
| Skin corrosion/irritation: | | | | | | n.d.a. | route: Acute toxicity, by | LD50 | > 9400 | g mg/k | Rabbit | | |
| Serious eye | | | | | | n.d.a. | dermal route: | | | g | | | |
| damage/irritation: Respiratory or skin | | | | | | n.d.a. | Acute toxicity, by inhalation: | LC50 | 0,49 | mg/l/ 4h | Rat | | Mist, Dust:, |
| sensitisation: | | | | | | n.u.a. | interestion | | | | | | Does no |
| Germ cell | | | | | | n.d.a. | | | | | | | conform with EU |
| mutagenicity: Carcinogenicity: | | | | | | n.d.a. | | | | | | | classifica |
| Reproductive toxicity: | | | | | | n.d.a. | Skin | | | | Rabbit | OECD 404 | n. Irritant |
| Specific target organ toxicity - single | | | 1 | | | n.d.a. | corrosion/irritation: | | | | . cabot | (Acute Dermal | ···· |
| exposure (STOT-SE): | | | | | | | | | | | | Irritation/Corrosio | |
| Specific target organ toxicity - repeated | | | 1 | | | n.d.a. | Respiratory or skin | - | | | Guinea | n) OECD 406 (Skin | Yes |
| exposure (STOT-RE): | | | 1 | | | | sensitisation: | | | | pig | Sensitisation) | (inhalatio |
| Aspiration hazard: Symptoms: | | 1 | | | | n.d.a. n.d.a. | | | | | | | and skin contact) |
| Other information: | | | | | | Classificati | Germ cell | | | | Salmonel | Regulation (EC) | Negative |
| | | | | | | on according | mutagenicity: | | | | la typhimuri | 440/2008 B.13/B.14 | |
| | | | | | | to | | | | | um | (REVERSE | |
| | | | | | | calculation procedure. | | | | | | MUTATION TEST USING | |
| | | | | | | procedure. | | | | | | BACTERIA) | |
| 4,4'-methylenedipheny | | ate Value | Unit | Organia | Test method | Notes | Germ cell mutagenicity: | | | | Rat | OECD 474 (Mammalian | Negative |
| Toxicity / effect | Endpo int | value | Unit | Organis m | Test method | notes | matagementy. | | | | | Erythrocyte | |
| Acute toxicity, by oral | LD50 | >2000 | mg/k | Rat | Regulation (EC) | Analogous | | | | | | Micronucleus | |
| | | | | | | | | 1 | | | | | |
| route: | | | g | | 440/2008 B.1 | conclusion | Carcinogenicity: | | | | Rat | Test) OECD 453 | Carc. 2 |
| | | | | _ | 440/2008 B.1 (ACUTE ORAL TOXICITY) | conclusion | Carcinogenicity: | | | | Rat | OECD 453 (Combined | Carc. 2 |
| Acute toxicity, by | LD50 | >9400 | mg/k | Rabbit | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 | conclusion Analogous | Carcinogenicity: | | | | Rat | OECD 453 (Combined Chronic Toxicity/Carcinog | Carc. 2 |
| Acute toxicity, by dermal route: | | | mg/k g | Rabbit | 440/2008 B.1 (ACUTE ORAL TOXICITY) | conclusion Analogous conclusion | Carcinogenicity: | | | | Rat | OECD 453 (Combined Chronic | Carc. 2 |
| Acute toxicity, by dermal route: Acute toxicity, by | LD50 ATE | >9400 | mg/k g mg/l/ | Rabbit | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal | Conclusion Analogous conclusion Aerosol, | | socyanate, | modified | | Rat | OECD 453 (Combined Chronic Toxicity/Carcinog | Carc. 2 |
| Acute toxicity, by dermal route: Acute toxicity, by inhalation: | ATE | 1,5 | mg/k g mg/l/ 4h | | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) | Analogous conclusion Aerosol, Expert judgement. | Carcinogenicity: Carcinogenicity: Methylenediphenyl diis Toxicity / effect | Endpo | modified Value | Unit | Organis | OECD 453 (Combined Chronic Toxicity/Carcinog | Carc. 2 |
| Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by | | | mg/k g mg/l/ 4h mg/l/ | Rabbit | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 | Analogous conclusion Aerosol, Expert judgement. Aerosol, | Methylenediphenyl diis | | | | | OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies) | Notes |
| Acute toxicity, by dermal route: Acute toxicity, by inhalation: | ATE | 1,5 | mg/k g mg/l/ 4h | | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) | Analogous conclusion Aerosol, Expert judgement. Aerosol, Does not conform | Methylenediphenyl diis Toxicity / effect | Endpo int | Value | Unit mg/k g | Organis m | OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral | Notes Analogo |
| Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by | ATE | 1,5 | mg/k g mg/l/ 4h mg/l/ | | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation | Analogous conclusion Aerosol, Expert judgement. Aerosol, Does not conform with EU | Methylenediphenyl diis Toxicity / effect Acute toxicity, by oral | Endpo int | Value | mg/k | Organis m | OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies) Test method OECD 401 | Notes Analogo conclusio |
| Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by inhalation: | ATE | 1,5 | mg/k g mg/l/ 4h mg/l/ | Rat | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) | Analogous conclusion Aerosol, Expert judgement. Aerosol, Does not conform with EU classificatio n. | Methylenediphenyl diis Toxicity / effect Acute toxicity, by oral route: | Endpo int | Value | mg/k | Organis m Rat | OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal | Notes Analogo conclusio |
| Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skin | ATE | 1,5 | mg/k g mg/l/ 4h mg/l/ | | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 | Analogous conclusion Aerosol, Expert judgement. Aerosol, Does not conform with EU classificatio n. Skin Irrit. | Methylenediphenyl diis Toxicity / effect Acute toxicity, by oral route: Skin | Endpo int | Value | mg/k | Organis m Rat | OECD 453 (Combined Chronic encity/Carcinog encity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 | Notes Analogo conclusio |
| Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by inhalation: | ATE | 1,5 | mg/k g mg/l/ 4h mg/l/ | Rat | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio | Analogous conclusion Aerosol, Expert judgement. Aerosol, Does not conform with EU classificatio n. Skin Irrit. 2, Analogous | Methylenediphenyl diis Toxicity / effect Acute toxicity, by oral route: Skin corrosion/irritation: Serious eye | Endpo int | Value | mg/k | Organis m Rat | OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 | Notes Analogo conclusio Skin Irrit. |
| Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skin corrosion/irritation: | ATE | 1,5 | mg/k g mg/l/ 4h mg/l/ | Rat | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) | Analogous conclusion Aerosol, Expert judgement. Aerosol, Does not conform with EU classificatio n. Skin Irrit. 2, Analogous conclusion | Methylenediphenyl diis Toxicity / effect Acute toxicity, by oral route: Skin corrosion/irritation: | Endpo int | Value | mg/k | Organis m Rat Rabbit | OECD 453 (Combined Chronic enicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) | Notes Analogo conclusio Skin Irrit. |
| Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skin | ATE | 1,5 | mg/k g mg/l/ 4h mg/l/ | Rat | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye | Analogous conclusion Aerosol, Expert judgement. Aerosol, Does not conform with EU classificatio n. Skin Irrit. 2, Analogous conclusion Not irritant, Analogous | Methylenediphenyl diis Toxicity / effect Acute toxicity, by oral route: Skin corrosion/irritation: Serious eye damage/irritation: | Endpo int | Value | mg/k | Organis m Rat Rabbit Rabbit | OECD 453 (Combined Chronic enicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio OECD 405 (Acute Eye | Notes Analogo conclusi Skin Irrit Eye Irrit. |
| Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye | ATE | 1,5 | mg/k g mg/l/ 4h mg/l/ | Rat | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 404 (Acute Eye Irritation/Corrosio | conclusion Analogous conclusion Expert judgement. Aerosol, Does not conform with EU classificatio n. Skin Irrit. 2, Analogous conclusion, Not irritant, Analogous conclusion, | Methylenediphenyl diis Toxicity / effect Acute toxicity, by oral route: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin | Endpo int | Value | mg/k | Organis m Rat Rabbit | OECD 453 (Combined Chronic roxicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio | Notes Analogo conclusid Skin Irrit Eye Irrit. Yes |
| Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye | ATE | 1,5 | mg/k g mg/l/ 4h mg/l/ | Rat | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye | Conclusion Analogous conclusion Aerosol, Expert Judgement. Aerosol, Does not conform with EU classification n. Skin Irrit. 2, Analogous conclusion Not irritant, Analogous conclusion, Does not conform | Methylenediphenyl diis Toxicity / effect Acute toxicity, by oral route: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: | Endpo int | Value | mg/k | Organis m Rat Rabbit Rabbit Mouse Guinea | OECD 453 (Combined Chronic enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Inritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin | Notes Analogo conclusi Skin Irrit Eye Irrit. Yes (inhalatii Yes (ski |
| Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye | ATE | 1,5 | mg/k g mg/l/ 4h mg/l/ | Rat | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 404 (Acute Eye Irritation/Corrosio | Conclusion Analogous conclusion Expert judgement. Aerosol, Does not conform with EU classificatio n. Skin Irrit. 2, Analogous conclusion, Does not conform with EU with EU | Methylenediphenyl diis Toxicity / effect Acute toxicity, by oral route: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: | Endpo int | Value | mg/k | Organis m Rat Rabbit Rabbit Mouse Guinea pig | OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin Sensitisation) | Notes Analogo conclusi Skin Irrit Eye Irrit. Yes (inhalatit Yes (skii contact) |
| Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye damage/irritation: | ATE | 1,5 | mg/k g mg/l/ 4h mg/l/ | Rat Rabbit Rabbit | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) | conclusion Analogous conclusion Expert Judgement. Aerosol, Does not conform with EU classificatio n. Skin Irrit. 2, Analogous conclusion, Does not conclusion, Not irritant, Analogous conclusion, Does not conform with EU classificatio n. | Methylenediphenyl diis Toxicity / effect Acute toxicity, by oral route: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: | Endpo int | Value | mg/k | Organis m Rat Rabbit Rabbit Mouse Guinea pig Salmonel Ia | OECD 453 (Combined Chronic roxicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin Sensitisation) Regulation (EC) | Notes Analogo conclusi Skin Irrit Eye Irrit. Yes (inhalatit Yes (skii contact) |
| Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin | ATE | 1,5 | mg/k g mg/l/ 4h mg/l/ | Rat Rabbit Rabbit Guinea | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) | conclusion Analogous conclusion Expert judgement. Judgement. Aerosol, Does not conform with EU classificatio n. Skin Irrit. 2, Analogous conclusion Not irritant, Analogous conclusion, Does not conform with EU classificatio n. No (skin | Methylenediphenyl diis Toxicity / effect Acute toxicity, by oral route: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell | Endpo int | Value | mg/k | Organis m Rat Rabbit Rabbit Guinea pig Salmonel Ia typhimuri | OECD 453 (Combined Chronic enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 405 (Skin Sensitisation) Regulation (EC) 440/2008 B.13/B.14 | Notes Analogo conclusie Skin Irrit. Eye Irrit. Yes (inhalatic Yes (skir contact) |
| Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin Respiratory or skin | ATE | 1,5 | mg/k g mg/l/ 4h mg/l/ | Rat Rabbit Rabbit | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin Sensitisation) OECD 406 (Skin | conclusion Analogous conclusion Expert judgement. Aerosol, Does not conform with EU classificatio n. Skin Irrit. 2, Analogous conclusion, Does not conform with EU classificatio n. Not irritant, Analogous conclusion, Does not conform with EU classificatio n. No (skin contact) Yes (skin | Methylenediphenyl diis Toxicity / effect Acute toxicity, by oral route: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell | Endpo int | Value | mg/k | Organis m Rat Rabbit Rabbit Mouse Guinea pig Salmonel Ia | OECD 453 (Combined Chronic enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin Sensitisation) Regulation (EC) 440/2008 B.13/B.14 (REVERSE MUTATION | Notes Analogou conclusic Skin Irrit. Eye Irrit. Yes (inhalatic Yes (skir |
| Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: | ATE | 1,5 | mg/k g mg/l/ 4h mg/l/ | Rat Rabbit Rabbit Guinea pig | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin Sensitisation) OECD 429 (Skin Sensitisation - | Conclusion Analogous conclusion Aerosol, Expert judgement. Aerosol, Does not conform with EU classificatio n. Skin Irrit. 2, Analogous conclusion, Not irritant, Analogous conclusion, Does not conform with EU classificatio n. Not issificatio n. No (skin contact) | Methylenediphenyl diis Toxicity / effect Acute toxicity, by oral route: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell | Endpo int | Value | mg/k | Organis m Rat Rabbit Rabbit Guinea pig Salmonel Ia typhimuri | OECD 453 (Combined Chronic enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin Sensitisation) Regulation (EC) 440/2008 B 13/B.14 (REVERSE MUTATION TEST USING | Notes Analogo conclusi Skin Irrit Eye Irrit. Yes (inhalatit Yes (skii contact) |
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| Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Respiratory or skin | ATE | 1,5 | mg/k g mg/l/ 4h mg/l/ | Rat Rabbit Rabbit Guinea pig Mouse Guinea | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin Sensitisation) OECD 429 (Skin Sensitisation) | conclusion Analogous conclusion Aerosol, Expert judgement. Aerosol, Does not conform with EU classificatio n. Skin Irrit. 2, Analogous conclusion, Not irritant, Analogous conclusion, Does not conform with EU classificatio n. No (kin contact) Yes (skin contact) Yes | Methylenediphenyl diis Toxicity / effect Acute toxicity, by oral route: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell mutagenicity: | Endpo int | Value | mg/k | Organis m Rat Rabbit Rabbit Mouse Guinea pig Salmonel Ia typhimuri um | OECD 453 (Combined Chronic enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Inritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin Sensitisation) Regulation (EC) 440/2008 B.13/B.14 (REVERSE MUTATION TEST USING BACTERIA) OECD 474 (Marmalian | Notes Analogo conclusie Skin Irrit. Eye Irrit. Yes (inhalatic Yes (skir contact) |
| Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye damage/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell | ATE | 1,5 | mg/k g mg/l/ 4h mg/l/ | Rat Rabbit Rabbit Guinea pig Mouse Guinea pig Salmonel | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin Sensitisation) OECD 429 (Skin Sensitisation) OECD 429 (Skin Sensitisation) OECD 429 (Skin OECD 429 (Skin Sensitisation) OECD 429 (Skin OECD 429 (Skin OECD 420 (Skin Sensitisation) | Conclusion Analogous conclusion Aerosol, Expert judgement. Aerosol, Does not conform with EU classification n. Skin Irrit. 2, Analogous conclusion, Not irritant, Analogous conclusion, Does not conform with EU classificatio n. No (skin contact) Yes (skin contact) Yes (skin contact) Yes (inhalation) | Methylenediphenyl diis Toxicity / effect Acute toxicity, by oral route: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell | Endpo int | Value | mg/k | Organis m Rat Rabbit Rabbit Mouse Guinea pig Salmonel Ia typhimuri um | OECD 453 (Combined Chronic enicity/Carcinog enicity/Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin Sensitisation) Regulation (EC) 440/2008 B.13/B.14 (REVERSE MUTATION BACTERIA) OECD 474 (Mammalian Erythrocyte Micronucleus | Notes Analogo conclusi Skin Irrit Eye Irrit. Yes (inhalati contact) Negative |
| Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: | ATE | 1,5 | mg/k g mg/l/ 4h mg/l/ | Rat Rabbit Rabbit Rabbit Guinea pig Mouse Guinea pig Salmonel Ia | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 405 (Acute System) OECD 405 (Acute System) OECD 405 (Acute System) OECD 406 (Skin Sensitisation) OECD 429 (Skin Sensitisation) OECD 429 (Skin Sensitisation) OECD 429 (Skin Sensitisation) OECD 429 (Skin Sensitisation) OECD 429 (Skin Sensitisation) OECD 429 (Skin Sensitisation) OECD 429 (Skin Sensitisation) OECD 429 (Skin Sensitisation) OECD 429 (Skin Sensitisation) | conclusion Analogous conclusion Aerosol, Expert judgement. Aerosol, Does not conform with EU classificatio n. Skin Irrit. 2, Analogous conclusion Not irritant, Analogous conclusion, Does not conform with EU classificatio n. Not (skin contact) Yes (skin contact) Yes (inhalation) Negative, Analogous | Methylenediphenyl diis Toxicity / effect Acute toxicity, by oral route: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell mutagenicity: | Endpo int LD50 | Value >2000 | mg/k g | Organis m Rat Rabbit Rabbit Mouse Guinea pig Salmonel Ia typhimuri um | OECD 453 (Combined Chronic enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin Sensitisation) Regulation (EC) 440/2008 B.13/B.14 (REVERSE MUTATION TEST USING BACTERIA) OECD 474 (Mammalian Erythrocyte Micronucleus Test) | Notes Analogo conclusi Skin Irrit Eye Irrit. Yes (inhalati contact) Negative |
| Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skin corrosion/irritation: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell mutagenicity: | ATE | 1,5 | mg/k g mg/l/ 4h mg/l/ | Rat Rabbit Rabbit Rabbit Guinea pig Mouse Guinea pig Salmonel Ia typhimuri um | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin Sensitisation) OECD 429 (Skin Sensitisation) | conclusion Analogous conclusion Aerosol, Expert Judgement. Aerosol, Does not conform with EU classificatio n. Skin Irrit. 2, Analogous conclusion, Does not conform with EU classificatio n. Not irritant, Analogous conclusion, Ves (skin contact) Yes (skin contact) Yes (inhalation) Negative, Analogous conclusion | Methylenediphenyl diis Toxicity / effect Acute toxicity, by oral route: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell mutagenicity: Germ cell mutagenicity: | Endpo int | Value | mg/k | Organis m Rat Rabbit Rabbit Mouse Guinea pig Salmonel Ia typhimuri um | OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin Sensitisation) Regulation (EC) 440/2008 B.13/B.14 (REVERSE MUTATION TEST USING BACTERIA) OECD 474 (Marmalian Erythrocyte Micronucleus Test) OECD 453 (Combined | Notes Analogo conclusi Skin Irrit Eye Irrit. Yes (inhalati contact) Negative |
| Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye damage/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell Germ cell | ATE | 1,5 | mg/k g mg/l/ 4h mg/l/ | Rat Rabbit Rabbit Guinea pig Mouse Guinea pig Salmonel Ia typhimuri | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 402 (Skin Sensitisation- Local Usin Sensitisation- DoECD 471 (Bacterial Reverse Mutation Test) OECD 474 | conclusion Analogous conclusion Aerosol, Expert judgement. Aerosol, Does not conform with EU classificatio n. Skin Irrit. 2, Analogous conclusion Not irritant, Analogous conclusion, Does not conform with EU classificatio n. Not (skin contact) Yes (skin contact) Yes (inhalation) Negative, Analogous | Methylenediphenyl diis Toxicity / effect Acute toxicity, by oral route: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell mutagenicity: Germ cell mutagenicity: Specific target organ toxicity - repeated exposure (STOT-RE), | Endpo int LD50 | Value >2000 | mg/k g | Organis m Rat Rabbit Rabbit Mouse Guinea pig Salmonel Ia typhimuri um | OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 474 (Marmalian Irritation/Corrosie | Notes Analogo conclusi Skin Irrit Eye Irrit. Yes (inhalati ves (ski contact) Negative |
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| Page 5 of 8 Bafety data sheet accord Revision date / version: 1 Replacing version dated | 1.09.2019 | / 0011 | | 6, Annex II | | | Acute toxicity, by dermal route: Acute toxicity, by | LD50 | | 2000 | mg/k g mg/l/ | Rat | OECD 402 (Acute Dermal Toxicity) OECD 403 | |
|--|----------------------|--------|-----------|--------------|--|---------------------------|---|----------|---------------|-----------|--------------------|---------------------|--|--|
| Valid from: 11.09.2019 PDF print date: 12.09.20 erax 20-1K-PUR-Konstru | 19 uktionsklebs | stoff | | | | | inhalation: | | | | 4h | Rabbit | (Acute Inhalation Toxicity) OECD 404 | Not irrita |
| Respiratory or skin | | | | Human | | No (skin | corrosion/irritation: | | | | | | (Acute Dermal Irritation/Corrosio | |
| ensitisation: Germ cell nutagenicity: | | | | being | OECD 471 (Bacterial | contact) Negative | Serious eye damage/irritation: | | | | | Rabbit | n) OECD 405 (Acute Eye | Not irrita Mechan |
| | | | | | Reverse Mutation Test) | | | | | | | | Irritation/Corrosio n) | irritation possible |
| Germ cell nutagenicity: | | | | | OECD 474 (Mammalian Erythrocyte | Negative | Respiratory or skin sensitisation: Germ cell | 1 | | | | | in vitro | No (skin contact) Negative |
| | | | | | Micronucleus Test) | | mutagenicity: Carcinogenicity: | | | | | | | Negative |
| Germ cell nutagenicity: | | | | | OECD 482 (Gen. Tox DNA Damage | Negative | | | | | | | | adminis d as Ca lactate |
| | | | | | and Repair, Unscheduled DNA Synthesis in Mammalian | | Reproductive toxic | ity: | | | | | | Negativ adminis d as Ca carbona |
| | | | | | Cells In Vitro) | | | | | | | | | Carbona |
| Carcinogenicity: | | | | Mouse | OECD 451 (Carcinogenicity | Negative | | SEC | TION | 12: E | cologi | cal inform | nation | |
| Reproductive toxicity: | NOAE | 1000 | mg/k | Rat | Studies) OECD 414 | Negative | | | | | | | | |
| teproductive toxicity. | L | 1000 | g | i tut | (Prenatal | Negative | Possibly more info ferax 20-1K-PUR- | | | | s, see Sect | tion 2.1 (classif | cation). | |
| | | | | | Developmental Toxicity Study) | | Toxicity / effect | Endpoin | Tim | Valu | Unit | Organism | Test | Notes |
| spiration hazard: | | | | | | No breathing | 12.1. Toxicity to | t | e | e | - | | method | n.d.a. |
| | | | | | | difficulties, | fish: 12.1. Toxicity to | | | | | | _ | n.d.a. |
| | | | | | | headaches, gastrointes | daphnia: | | | | | | | |
| | | | | | | tinal disturbance | 12.1. Toxicity to algae: | | | | | | | n.d.a. |
| | | | | | | S, | 12.2. | 1 | | | | 1 | | With w |
| | | | | | | dizziness, nausea | Persistence and degradability: | | | | | | | at the interfac |
| pecific target organ | NOEL | >5000 | mg/k | | OECD 408 (Reported Dece | | | | | | | | | transfo slowly |
| xicity - repeated posure (STOT-RE), al: | | | g | | (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | | | | | | | | | formati of CO2 into a f |
| pecific target organ | NOEC | 100 | mg/m | | Rodents) OECD 413 | Dust, Mist | | | | | | | | insolub |
| xicity - repeated posure (STOT-RE), | | | 3 | | (Subchronic Inhalation | | | | | | | | | reactio produc |
| nalat.: | | | | | Toxicity - 90-Day | | | | | | | | | with a |
| | | | | | Study) | | | | | | | | | melting point |
| ibutyltin dilaurate | End | Velue | 11-24 | Ormer's | Toot methical | Notes | | | | | | | | (polyca mide). |
| oxicity / effect | Endpo int | Value | Unit | Organis m | Test method | Notes | | | | | | | | Accord |
| cute toxicity, by oral oute: | LD50 | 2071 | mg/k g | Rat | OECD 401 (Acute Oral | | | | | | | | | to experie |
| | | | | | Toxicity) | | | | | | | | | availab to date |
| cute toxicity, by ermal route: | LD50 | >2000 | mg/k g | Rat | OECD 402 (Acute Dermal Toxicity) | | | | | | | | | polycar ide is ir and nor |
| kin prrosion/irritation: | | | | Rat | | Corrosive | | | | | | | | degrad |
| erious eye amage/irritation: | | | | Rabbit | OECD 405 (Acute Eye | Risk of serious | 12.3. | | | | | | | n.d.a. |
| amage/imation. | | | | | Irritation/Corrosio | damage to | Bioaccumulative | | | | | | | |
| espiratory or skin | | | | Guinea | n) OECD 406 (Skin | eyes. Sensitising | potential: 12.4. Mobility in | | | + | | | | n.d.a. |
| ensitisation: | | | | pig | Sensitisation) | _ | soil: 12.5. Results of | | | | | | | n.d.a. |
| erm cell utagenicity: | | | | | | Muta. 2 | PBT and vPvB | | | | | | | ind.d. |
| spiration hazard: ymptoms: | | | | | | Negative respiratory | assessment 12.6. Other | | | + | | | | n.d.a. |
| ympionis. | | | | | | distress, | adverse effects: | | | | | | | Asserd |
| | | | | | | diarrhoea, coughing, | Other information: | | | | | | | Accord to the |
| | | | | | | cramps, | | | | | | | | recipe, contain |
| | | | | | | mucous membrane | Other | | | | | | | no AOX |
| | | | | | | irritation, nausea | Other information: | | | | | | | DOC- elimina |
| | | | | | | and | | | | | | | | degree mplexi |
| | | | I | | | vomiting. | | | | | | | | organio |
| lica, amorphous oxicity / effect | Endpo | Value | Unit | Organis | Test method | Notes | | | | | | | | substar |
| - | int | | | m | | | | | | | | | | 80%/28 n.a. |
| cute toxicity, by oral ute: | LD50 | >5000 | mg/k g | Rat | OECD 423 (Acute Oral | | 4 41 | h and d? | | 1 | | 1 | 1 | |
| | | | | | Toxicity - Acute Toxic Class | | 4,4'-methylenedip Toxicity / effect | Endpoin | /anate Tim | Valu | Unit | Organism | Test | Notes |
| lin | | | | Deter | Method) | Not initial | Other | t H | е | e 0,02 | | - | method | <u> </u> |
| kin prrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal | Not irritant | information: | (Henry) | | 29 | | _ | | |
| | | | | | Irritation/Corrosio | | 12.1. Toxicity to fish: | LC50 | 96h | >10 00 | mg/l | Brachydani rerio | OECD 203 (Fish, Acute | Analog conclu |
| erious eye | | | 1 | Rabbit | n) OECD 405 | Not irritant | | | | | | | Toxicity | |
| mage/irritation: | | | | | (Acute Eye Irritation/Corrosio | | 12.1. Toxicity to | EC50 | 24h | >10 | mg/l | Daphnia | Test) OECD 202 | Analog |
| | | | | | n) | | daphnia: | | | 00 | | magna | (Daphnia | conclus |
| erm cell utagenicity: | | | | | OECD 471 (Bacterial | Negative | | | | | | | sp. Acute Immobilisati | |
| - · | | | | | Reverse | | 12.1. Toxicity to | NOEC/N | 21d | >10 | mg/l | Daphnia | OECD 202 | Analog |
| | | | | | Mutation Test) | No | daphnia: | OEL | 210 | | g/1 | magna | (Daphnia | conclus |
| spiration hazard: | | | | | | | | | | | | | sp. Acute Immobilisati | |
| | | Value | Unit | Organis | Test method | Notes | 12.2. | | 28d | 0 | % | | on Test) OECD 302 | Not |
| alcium carbonate | Endpo | | | | | | | 1 | 200 | 1 0 | 70 | 1 | | |
| spiration hazard: alcium carbonate oxicity / effect cute toxicity, by oral bute: | Endpo int LD50 | >2000 | mg/k g | m Rat | OECD 420 (Acute Oral | | Persistence and degradability: | | | | | | C (Inherent Biodegradab | biodegi ble |
| alcium carbonate oxicity / effect cute toxicity, by oral | int | >2000 | | | | | | | | | | | | biodegr ble |



| B) Page 6 of 8 Safety data sheet a Revision date / vers Replacing version of Valid from: 11.09.2 PDF print date: 12./ ferax 20-1K-PUR-K | sion: 11.09.20 dated / versior 019 09.2019 | 19 /001 [.] 1:29.03.2 | 1 | | , Annex II | | | 12.2. Persistence and degradability: | | | | % | activated sludge | OECD 302 C (Inherent Biodegradab ility - Modified MITI Test (II)) | |
|--|---|-----------------------------------|-------------------|-------------------|--------------------------------|--|--|--|-----------------------|------------|-------------------|--------------|--------------------------------|---|--|
| 12.1. Toxicity to algae: | ErC50 | 72h | >16 40 | mg/l | Desmodesm us subspicatus | OECD 201 (Alga, Growth Inhibition | Analogous conclusion | 12.3. Bioaccumulative potential: | BCF | | 200 | | | OECD 305 (Bioconcentr ation - Flow- Through Fish Test) | Not to be expected |
| 12.3. Bioaccumulative potential: | BCF | 28d | 200 | | Cyprinus caprio | Test) IUCLID Chem. Data Sheet | Not to be expected | 12.1. Toxicity to fish: | LC50 | 96h 21d | >10 00 | mg/l | Brachydanio rerio | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.3. Bioaccumulative potential: | Log Pow | | 5,22 | | | (ESIS) | A notable biological accumulati on potential | 12.1. Toxicity to daphnia: | NOEC/N OEL EC50 | 210 3h | >=1 0 | mg/l mg/l | Daphnia magna activated | OECD 211 (Daphnia magna Reproductio n Test) OECD 209 | |
| | | | | | | | has to be expected (LogPow > 3). | bacteria: | ECSU | 311 | >10 0 | mg/r | sludge | (Activated Sludge, Respiration Inhibition | |
| Toxicity to bacteria: | EC50 | 3h | >10 0 | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition | Analogous conclusion | | | | | | | Test (Carbon and Ammonium Oxidation)) | |
| | | | | | | Test (Carbon | | Propylene carbon | | | | | | _ | |
| | | | | | | and Ammonium | | Toxicity / effect | Endpoin t | Tim e | Valu e | Unit | Organism | Test method | Notes |
| 12.5. Results of | | | | | | Oxidation)) | No PBT | 12.1. Toxicity to fish: | LC50 | 96h | >10 00 | mg/l | Cyprinus caprio | 92/69/EC | |
| PBT and vPvB assessment Toxicity to | EC50 | 14d | >10 00 | mg/k | Eisenia | OECD 207 (Earthworm, | substance, No vPvB substance Analogous conclusion | 12.1. Toxicity to daphnia: | EC50 | 48h | >10 00 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisati | |
| annelids: Toxicity to | NOEC/N | 14d | > | g mg/k | foetida Lumbricus | (Earthworm, Acute Toxicity Tests) OECD 207 | Analogous | 12.1. Toxicity to algae: | EC50 | 72h | >90 0 | mg/l | Desmodesm us subspicatus | on Test) OECD 201 (Alga, Growth Inhibition | |
| annelids: Water solubility: | OEL | | 100 0 | g | terrestris | (Earthworm, Acute Toxicity Tests) | conclusion According | 12.2. Persistence and degradability: | | | 83,5 -87- 7 | % | | Test) OECD 301 B (Ready Biodegradab ility - Co2 | Readily biodegra ble29d |
| | | | | | | | to experience available to date, | 12.2. Persistence and | DOC | 14d | 90- 100 | % | | Evolution Test) OECD 301 A (Ready | |
| | | | | | | | polycarbam ide is inert and non- degradable | degradability: | | | | | | Biodegradab ility - DOC Die-Away Test) | Di |
| | | | | | | | ., With water at the interface, transforms slowly with formation | 12.3. Bioaccumulative potential: | Log Pow | | - 0,48 | | | | Bioaccu ation is unlikely (LogPov 1)., calculate value |
| | | | | | | | of CO2 into a firm, insoluble reaction product | 12.5. Results of PBT and vPvB assessment | EC10 | 16h | 256 | ma/l | Pseudomon | DIN 38412 | No PBT substan No vPvE substan |
| | | | | | | | with a high | Toxicity to bacteria: | | 1011 | 19 | mg/l | as putida | T.8 | |
| | | | | | | | melting point (polycarba mide). | Other information: | AOX | | 0 | % | | | Does no contain any organica bound |
| Reaction mass of Toxicity / effect | 4,4'-methyler Endpoin | nediphen Tim | yl diisoc Valu | yanate an Unit | d o-(p-isocyanat Organism | Test | isocyanate Notes | | | | | | | | halogens which ca |
| 12.2. Persistence and degradability: | t | e 28d | e 0 | % | activated sludge | method OECD 302 C (Inherent Biodegradab ility - | | | | | | | | | contribut to the Ad value in waste water. |
| | | | | | | Modified MITI Test | | Dibutyltin dilaurat | e | | | | | I | |
| 12.3. | BCF | | 200 | | | (II)) | Not to be | Toxicity / effect | Endpoin t | Tim e | Valu e | Unit | Organism | Test method | Notes |
| Bioaccumulative potential: 12.1. Toxicity to fish: | LC50 | 96h | > 100 | mg/l | Brachydanio rerio | OECD 203 (Fish, Acute | expected | 12.1. Toxicity to fish: | LC0 | 96h | 3,1 | mg/l | Brachydanio rerio | OECD 203 (Fish, Acute Toxicity Test) | saturated |
| 12.1. Toxicity to daphnia: | NOEC/N OEL | 21d | 0 >10 | mg/l | Daphnia magna | Toxicity Test) OECD 211 (Daphnia magna | | 12.1. Toxicity to daphnia: | EC50 | 48h | <1 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisati on Test) | saturated solution |
| 12.1. Toxicity to daphnia: | EC50 | 24h | > 100 | mg/l | Daphnia magna | Reproductio n Test) OECD 202 (Daphnia | | 12.1. Toxicity to algae: | EC50 | 72h | >1 | mg/l | Desmodesm us subspicatus | OECD 201 (Alga, Growth Inhibition | |
| Toxicity to | EC50 | 3h | 0 >10 | mg/l | activated | sp. Acute Immobilisati on Test) OECD 209 | | 12.2. Persistence and degradability: | | 28d | 22 | % | | Test) OECD 301 F (Ready Biodegradab | Not read biodegra |
| bacteria: | | | 0 | | sludge | (Activated Sludge, Respiration Inhibition Test | | 12.3. | BCF | | 1,49 | | | ility - Manometric Respirometr y Test) OECD 305 | |
| | | | | | | (Carbon and Ammonium Oxidation)) | | Bioaccumulative potential: | | | -3,7 | | | (Bioconcentr ation - Flow- Through Fish Test) | |
| | | | | | | | | 12.5. Results of | | | | _ | | | No PBT |
| Methylenedipheny Toxicity / effect | yl diisocyana Endpoin | e, modif Tim | ied Valu | Unit | Organism | Test | Notes | PBT and vPvB assessment | | | | | | | substan No vPvE |



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| Silica, amorphous | | | | | | | |
|--|--------------|----------|-----------------|------|--------------------------------|---|--|
| Toxicity / effect | Endpoin t | Tim e | Valu e | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | EC0 | 96h | >10 000 | mg/l | Brachydanio rerio | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to daphnia: | EC0 | 24h | >10 00 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisati on Test) | |
| 12.1. Toxicity to algae: | ErC50 | 72h | >=1 000 0 | mg/l | Scenedesm us subspicatus | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.2. Persistence and degradability: | | | | | | | Not biodegrada ble |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |

| Calcium carbonat Toxicity / effect | Endpoin | Tim | Valu | Unit | Organism | Test | Notes |
|---------------------------------------|---------|-----|-----------|------|--------------------------------|---|----------|
| · · · · · · · · · · · · · · · · · · · | t | e | e | | j | method | |
| 12.1. Toxicity to fish: | LC50 | 96h | >10 0 | mg/l | Oncorhynch us mykiss | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | >10 0 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisati on Test) | |
| 12.1. Toxicity to algae: | EC50 | 72h | >14 | mg/l | Desmodesm us subspicatus | OECD 201 (Alga, Growth Inhibition Test) | |
| Toxicity to bacteria: | EC50 | 3h | >10 00 | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) | |
| Toxicity to annelids: | | | | | Eisenia foetida | OECD 207 (Earthworm, Acute Toxicity Tests) | Negative |
| Water solubility: | | | 0,01 4 | g/l | | , | |

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) 08 04 09 waste adhesives and sealants containing organic solvents or other hazardous substances 08 05 01 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 official regulations. 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**

General statements

| 14.1. UN number: | n.a. | | |
|------------------------------------|----------------|---------------------------------------|--------|
| Transport by road/by rail (ADR/RID | 0) | | |
| 14.2. UN proper shipping name: | , | acc., acc. to according, according to | |
| 14.3. Transport hazard class(es): | n.a. | ADR Accord européen relatif | |
| 14.4. Packing group: | n.a. | European Agreement concerning the | |
| Classification code: | n.a. | AOX Adsorbable organic halo | |
| LQ: | n.a. | approx. approximately | |
| 14.5. Environmental hazards: | Not applicable | Art., Art. no.Article number | |
| Tunnel restriction code: | | ASTM ASTM International (Am | neric |
| Transport by sea (IMDG-code) | | BAM Bundesanstalt für Mater | rialfo |
| 14.2. UN proper shipping name: | | Testing, Germany) | |
| 14.3. Transport hazard class(es): | n.a. | BAuA Bundesanstalt für Arbeit | tssc |
| 14.4. Packing group: | n.a. | and Safety, Germany) | |
| Marine Pollutant: | n.a | BSEF The International Bromin | ne C |
| 14.5. Environmental hazards: | Not applicable | bw body weight | |
| Transport by air (IATA) | | CAS Chemical Abstracts Ser | |
| 14.2. UN proper shipping name: | | CLP Classification, Labelling | |
| 14.3. Transport hazard class(es): | n.a. | labelling and packaging of substance | |
| 14.4. Packing group: | n.a. | CMR carcinogenic, mutagenic | |
| · · · · · doining group. | | DMEL Derived Minimum Effect | t Lev |

14.5. Environmental hazards:

14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed. 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code Non-dangerous material according to Transport Regulation

SECTION 15: Regulatory information

Not applicable

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

Observe restrictions: Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!

92/85/EC)! Regulation (EC) No 1907/2006, Annex XVII 4.4"-methylenediphenyl diisocyanate Reaction mass of 4.4"-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate Methylenediphenyl diisocyanate, modified

Dibutyltin dilaurate Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC):

15.2 Chemical safety assessment A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

0%

8

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. |
| 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 (specified in Section 2 and 3). H314 Causes severe skin burns and eye damage.

N314 Causes service skin bulns and eye damage. N360FD May damage ferullity. May damage the unborn child. N373 May cause damage to organs through prolonged or repeated exposure by inhalation. N315 Causes skin irritation. N317 May causes an allergic skin reaction. N318 Causes serious eye damage. N319 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. H341 Suspected of causing genetic defects. H351 Suspected of causing cancer.

H370 Causes damage to organs

Harz 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 Skin Irrit. — Skin irritation Resp. Sens. — Respiratory sensitization Skin Sens. — Skin sensitization Carc. — Carcinogenicity STOT RE — Specific target organ toxicity - repeated exposure Acute Tox. — Acute toxicity - inhalation

Acute Tox. — Acute toxicity - inhalation Muta. — Germ cell mutagenicity Repr. — Reproductive toxicity Skin Corr. — Skin corrosion Aquatic Acute — Hazardous to the aquatic environment - acute Aquatic Chronic — Hazardous to the aquatic environment - chronic STOT SE — Specific target organ toxicity - single exposure Eye Dam. — Serious eye damage

Any abbreviations and acronyms used in this document:

transport international des marchandises Dangereuses par Route (= nternational Carriage of Dangerous Goods by Road) en compounds rican Society for Testing and Materials) Iforschung und -prüfung (Federal Institute for Materials Research and schutz und Arbeitsmedizin (= Federal Institute for Occupational Health Council or nd Packaging (REGULATION (EC) No 1272/2008 on classification, and mixtures) reproductive toxic evel



| (GB) | |
|--|--|
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| Replacing version dated / version: 29.03.2019 / 0010 | |
| Valid from: | |
| | ate: 12.09.2019 |
| | -PUR-Konstruktionsklebstoff |
| leiax 20- IK | -POR-Konstruktionskiedston |
| DNE | Desired No. 5% and and |
| DNEL | Derived No Effect Level |
| dw | dry weight |
| e.g. | for example (abbreviation of Latin 'exempli gratia'), for instance |
| EC | European Community |
| ECHA | European Chemicals Agency |
| EEC | European Economic Community |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| ELINCS | European List of Notified Chemical Substances |
| EN | European Norms |
| EPA | United States Environmental Protection Agency (United States of America) |
| etc. | et cetera |
| EU | European Union |
| EVAL | Ethylene-vinyl alcohol copolymer |
| Fax. | Fax number |
| gen. | general |
| ĞHS | Globally Harmonized System of Classification and Labelling of Chemicals |
| GWP | Global warming potential |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IBC (Code) | International Bulk Chemical (Code) |
| | International Maritime Code for Dangerous Goods |
| incl. | including, inclusive |
| IUCLID | International Uniform Chemical Information Database |
| LQ | Limited Quantities |
| MARPOL | International Convention for the Prevention of Marine Pollution from Ships |
| n.a. | not applicable |
| n.av. | not available |
| n.c. | not checked |
| n.d.a. | no data available |
| OECD | Organisation for Economic Co-operation and Development |
| org. | organic |
| PBT | persistent, bioaccumulative and toxic |
| PE | Polyethylene |
| PNEC | Predicted No Effect Concentration |
| ppm | parts per million |
| PVC | |
| | Polyvinylchloride |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals) |
| REACH-IT I | |
| | |
| | numerical identifier. List Numbers do not have any legal significance, rather they are purely |
| | entifiers for processing a submission via REACH-IT. |
| RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail) | |
| | |
| SVHC | Substances of Very High Concern |
| Tel. | Telephone |
| | United Nations Recommendations on the Transport of Dangerous Goods |
| VOC | Volatile organic compounds |
| vPvB | very persistent and very bioaccumulative |
| wwt | wet weight |
| | |

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility. These statements were made by: Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90 © by Chemical Check GmbH Gefahrstoffberatung. The copying or changing of this document is forbidden except with consent of the Chemical Check GmbH Gefahrstoffberatung.