

MasterWeld

MSDS - IK

Page 1 of 20 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 05.02.2018 / 0002 Replacing version dated / version: 15.02.2017 / 0001 Valid from: 05.02.2018 PDF print date: 05.02.2018 MasterWeld 60 and MasterWeld 210

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

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

1.1 Product identifier

OB

MasterWeld 60 IK / MasterWeld 210 IK

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

Uses advised against: No information available at present.

1.3 Details of the supplier of the safety data sheet (\overline{B})

Wayside Adhesives Ltd 01159 33 33 21

Qualified person's e-mail address: info@waysideadhesives.com. 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: 01159 33 33 21

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) 1272/2008 (CLP)
Hazard classHazard categoryHazard statement
Acute Tox.4H332-Harmful if inhaled.
Eye Irrit.2H319-Causes serious eye irritation.
STOT SE3H335-May cause respiratory irritation.
Skin Irrit.2H315-Causes skin irritation.
Resp. Sens.1H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens.1H317-May cause an allergic skin reaction.
Carc.2H351-Suspected of causing cancer.
STOT RE2H373-May cause damage to organs through prolonged

or repeated exposure by inhalation (respiratory system).

2.2 Label elements Labeling according to Regulation (EC) 1272/2008 (CLP) Page 2 of 20

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Danger

H332-Harmful if inhaled. H319-Causes serious eye irritation. H335-May cause respiratory irritation. H315-Causes skin irritation. H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317-May cause an allergic skin reaction. H351-Suspected of causing cancer. H373-May cause damage to organs through prolonged or repeated exposure by inhalation (respiratory system).

P201-Obtain special instructions before use. P260-Do not breathe vapours or spray. P280-Wear protective gloves / protective clothing and eye protection / face protection. P284-Wear respiratory protection. P304+P340-IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312-Call a POISON CENTRE / doctor if you feel unwell.

EUH204-Contains isocyanates. May produce an allergic reaction.

4,4'-methylenediphenyl diisocyanate Diphenylmethanediisocyanate, isomeres and homologues Methylenediphenyl diisocyanate, modified

2.3 Other hazards

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

SECTION 3: Composition/information on ingredients

3.1 Substance

n.a.

| 3.2 Mixture | |
|---|--|
| Diphenylmethanediisocyanate, isomeres and homologues | |
| Registration number (REACH) | |
| Index | |
| EINECS, ELINCS, NLP | |
| CAS content % | 9016-87-9 10-20 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373 (respiratory system) (as inhalation) |
| Methylenediphenyl diisocyanate, modified | |
| Registration number (REACH) | 01-2119457013-49-XXXX |
| Index | 1 |

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| EINECS, ELINCS, NLP | 500-040-3 (NLP) |
|---|---|
| | |
| CAS | 25686-28-6 |
| content % | 10-20 |
| 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 tract) (as inhalation) |
| | |

| 01-2119457014-47-XXXX |
|--|
| 615-005-00-9 |
| 202-966-0 |
| 101-68-8 |
| 5-10 |
| Acute Tox. 4, H332 |
| Skin Irrit. 2, H315 |
| Eye Irrit. 2, H319 |
| Resp. Sens. 1, H334 |
| Skin Sens. 1, H317 |
| Carc. 2, H351 |
| STOT SE 3, H335 |
| STOT RE 2, H373 (respiratory system) (as inhalation) |
| |
| |

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification! For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

Inhalation

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

Skin contact

Wipe off residual product carefully with a soft, dry cloth. Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Dab away with polyethylene glycol 400

Eye contact

Remove contact lenses.

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

Ingestion

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

A Q Mast important arrest and affects that have and delayers

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. The following may occur: Dermatitis (skin inflammation) Drying of the skin.

Allergic contact eczema

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Discoloration of the skin Irritant to mucosa of the nose and throat Coughing Headaches Effect on the central nervous system Asthmatic symptoms In case of sensitivity, concentrations below the limit value may already result in asthmatic symptoms. Respiratory distress In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

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

Medical supervision necessary due to possibility of delayed reaction.

SECTION 5: Firefighting measures

Suitable extinguishing media CO2 Extinction powder Water jet spray Foam Unsuitable extinguishing media High volume water jet 5.2 Special hazards arising from the substance or mixture In case of fire the following can develop: Oxides of carbon Oxides of carbon Oxides of nitrogen Isocyanates Hydrocyanic acid (hydrogen cyanide) Toxic gases Danger of bursting (explosion) when heated

5.3 Advice for firefighters

5.1 Extinguishing media

In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. According to size of fire Full protection, if necessary. Cool container at risk with water. Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep unprotected persons away. Ensure sufficient supply of air. Avoid inhalation, and contact with eyes or skin. If applicable, caution - risk of slipping.

6.2 Environmental precautions

Section 13.

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

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

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Do not close packing drum. CO2 formation in closed tanks causes pressure to rise.

6.4 Reference to other sections

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

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Avoid inhalation of the vapours. If applicable, suction measures at the workstation or on the processing machine necessary.

Avoid contact with eves or skin.

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

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

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

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

Keep away from food, drink and animal feedingstuffs.

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

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals. Not to be stored in gangways or stair wells. Store product closed and only in original packing. Keep protected from direct sunlight and temperatures over 50°C. Store at room temperature. Store in a dry place.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| • | Chemical Name | Diphenylmethanediisocyanate, isomeres and homologi | ues | Content %:10- 20 | | | | | |
|--|----------------------------------|---|---------------------|---------------------|--|--|--|--|--|
| WEL-TWA: 0,02 mg/m3 (Isocyanates, all (as -WEL-STEL: 0,07 mg/m3 (Isocyanates, all (as - | | | | | | | | | |
| | nitoring procedures: | άψ. | -501 | | | | | | |
| BMGV: 1 µmol urinary diamine/mol creatinine in urine (isocyanate, post task)Other information: Sen (isocyanates, all (as NCO)) | | | | | | | | | |
| @ | Chemical Name | Methylenediphenyl diisocyanate, modified | | Content %:10- 20 | | | | | |
| NC | O))NCO)) | , all (as -WEL-STEL: 0,07 mg/m3 (Isocyanates, all (as - | | | | | | | |
| | nitoring procedures: | | | | | | | | |
| BN | GV: 1 µmol urinary diamine/mol c | reatinine in urine (Isocyanate, post task)Other information | ף: | | | | | | |
| @ | | | Content %:5-104,4 | -methylenediphenyl | | | | | |
| WE | , | , all (as -WEL-STEL: 0,07 mg/m3 (Isocyanates, all (as | | | | | | | |
| NCO))NCO)) Monitoring procedures:ISO 16702 (Workplace air quality – determination of total isocyanate groups in air using 2 (1 methoxyphenylpiperazine and liquid chromatography) - 2001 | | | | | | | | | |
| | | | enomalography, 2001 | | | | | | |

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> MDHS 25/3 (Organic isocyanates in air - Laboratory method using sampling either onto 2-(1- methoxyphenylpiperazine coated glass fibre filters followed by solvent desorption or into impingers and analysis using high performance liquid chromatography) - 1999 - EU project BC/CEN/ENTR/000/2002-16 card 7-4

> > NCO))

- (2004)

1 µmol urinary diamine/mol creatinine in urine (Isocyanate, post task)Other information: Sen (Isocyanates, all (as BMGV:

| | | // | | |
|---|-------------|-------------|---------|-------------|
| TalcChemical Name | | | | Content %: |
| WEL-TWA: 1 mg/m3 (res. dust) | WEL-STEL: | | | Content 70. |
| Monitoring procedures: | 70: | 87 | 28 | |
| BMGV: | | Other infor | mation: | |
| GB Silica, amorphousChe | emical Name | | | Content %: |
| WEL-TWA: 6 mg/m3 (total inh. dust), 2,4 mg/m3WE | EL-STEL: | | | |
| (resp. dust) | | | | |
| Monitoring procedures: | | | | |
| BMGV: | | Other infor | mation: | |

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). (9) = Respirable fraction (2017/164/EU). | WEL-STEL = Workplace Exposure Limit - Shortterm exposure limit (15-minute reference period).

(8) = Inhalable fraction (2017/164/EU). (9) = Respirable fraction (2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

8.2 Exposure controls

| Area of applicationExposure route / Environmental compartment | | Effect on health | Descripto r | Value | Unit | Note |
|---|--------------------|--|----------------|-------|-----------------|------|
| ConsumerHuman - oral | | Short term, systemic effects | DNEL | 20 | mg/kg bw/day | |
| Consumer | Human - dermal | Short term, local effects | DNEL | 17,2 | mg/cm2 | |
| Consumer | Human - dermal | Short term, systemic effects Short term, local | DNEL | 25 | mg/kg bw/day | |
| Consumer | Human - inhalation | effects Short term, systemic | DNEL | 0,05 | mg/m3 | |
| Consumer | Human - inhalation | effects Long term, local | DNEL | 0,05 | mg/m3 | |
| Consumer | Human - inhalation | effects Long term, systemic | DNEL | 0,025 | mg/m3 | |
| Consumer | Human - inhalation | effects Short term, local | DNEL | 0,025 | mg/m3 | |
| Workers / employees | Human - dermal | Short term, systemic effects | DNEL | 28,7 | mg/cm2 | |
| Workers / employees | Human - dermal | Short term, local effects | DNEL | 50 | mg/kg bw/day | |
| Workers / employees | Human - inhalation | Short term, systemic effects | DNEL | 0,1 | mg/m3 | |
| Workers / employees | Human - inhalation | Long term, local effects Long term, systemic | DNEL | 0,1 | mg/m3 | |
| Workers / employees | Human - inhalation | effects | DNEL | 0,05 | mg/m3 | 2 |
| Workers / employees | Human - inhalation | | DNEL | 0,05 | mg/m3 | |

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8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction. If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here. Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and nonmetrological 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. Eye/face protection: Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection: Chemical resistant protective gloves (EN 374). If applicable Protective Neoprene® / polychloroprene gloves (EN 374). Protective Nitrile gloves (EN 374) Protective Viton® / fluoroelastomer gloves (EN 374) Minimum layer thickness in mm: >= 0,4 Permeation time (penetration time) in minutes: >= 480 The breakthrough times determined in accordance with EN 374 Part 3 were not obtained u

The breakthrough times determined in accordance with EN 374 Part 3 were not obtained under practical 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

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9.1 Information on basic physical and chemical properties

Physical state: Colour: Odour: Odour threshold: pH-value: Melting point/freezing point: Initial boiling point and boiling range: Flash point: Evaporation rate: Flammability (solid, gas): Lower explosive limit: Upper explosive limit: Vapour pressure: Vapour density (air = 1): Density: Bulk density: Solubility(ies): Water solubility: Partition coefficient (n-octanol/water): Auto-ignition temperature: Decomposition temperature: Viscosity: Explosive properties: Oxidising properties:

9.2 Other information

Miscibility: Fat solubility / solvent: Conductivity: Surface tension: Solvents content:

Pastelike, Liquid Black Slightly Not determined n.a. Not determined 1,28 g/cm3 n.a. Not determined Insoluble Not determined Not determined Not determined ~60000 mPas (Thixotrope) Product is not explosive. No

Not determined Not determined Not determined Not determined

SECTION 10: Stability and reactivity

10.1 Reactivity reacts with water
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

Protect from humidity. Polymerisation due to high heat is possible.

10.5 Incompatible materials Acids Bases Amines Alcohols Water

10.6 Hazardous decomposition products

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No decomposition when used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

| Toxicity / effectEndpointValueUn | hitΦrganism | | 8 | Test method | Notes |
|--|--------------|-------|----------|-------------|---------------------------|
| Acute toxicity, by oral route: | | | | | n.d.a. |
| Acute toxicity, by dermal route: Acute toxicity, by inhalation:ATE | 4 29mg/l/4b | | | | n.d.a. |
| note toxicity, by initiations the | -,,20mg/// m | | | | calculated value, Aerosol |
| Acute toxicity, by inhalation: | ATE | 31,47 | mg/l/4h | | calculated value, Vapours |
| Skin corrosion/irritation: | | | | | n.d.a. |
| Serious eye damage/irritation: | | | | | n.d.a. |
| Respiratory or skin sensitisation: | | | | | n.d.a. |
| Germ cell mutagenicity: | | | | | n.d.a. |
| Carcinogenicity: Reproductive toxicity: | | | () () | 19. | n.d.a. |
| Specific target organ toxicity - | 6 | | | 8 | n.d.a. |
| single exposure (STOT-SE): Specific target organ toxicity - | | | | | n.d.a. |
| repeated exposure (STOT- RE): | | | | | n.d.a. |
| Aspiration hazard: | | | | 2 | 6 |
| Symptoms: | | 2 | 0 | | n.d.a. |
| | | | | | n.d.a. |

| Toxicity / effectEndpointValueU | nit | | | Organism | Test method | Notes |
|---------------------------------------|-------------|-------|---------|---------------------------|--|---|
| Acute toxicity, by oral route:LD5 | 0>5000mg/kg | | | Rat | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | >5000 | mg/kg | Rabbit | OECD 402 (Acute Dermal Toxicity) | |
| Acute toxicity, by inhalation: | LC50 | 0,31 | mg/l/4h | Rat | OECD 403 (Acute Inhalation Toxicity) | Aerosol, Does not conform with EU classification. |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Irritant |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Irritant, Analogous conclusion |
| Respiratory or skin sensitisation: | 2 | | | Guinea pig | | Yes (inhalation) |
| Respiratory or skin sensitisation: | | | | Mouse | OECD 429 (Skin Sensitisation - Local Lymph Node Assay) | Sensitising, Analogous conclusion |
| Germ cell mutagenicity: | | | | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test) OECD 453 | Negative |
| Carcinogenicity: | | | | Rat | (Combined Chronic Toxicity/Carcinogenicit y Studies) | Aerosol, Limited evidence of a carcinogenic effect. |

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| Reproductive toxicity: | NOAEL | 4 | mg/m3 | Rat | OECD 414 (Prenatal Developmental Toxicity Study) | Aerosol, Negative | | |
|--|------------|---------------|----------------|-----------------|--|---|--|--|
| Specific target organ toxicity - repeated exposure (STOT- RE): | LOAEL | 1 | | Rat | OECD 453 (Combined Chronic Toxicity/Carcinogenicit y Studies) OECD 453 | Aerosol, Analogous conclusion | | |
| Specific target organ toxicity - repeated exposure (STOT- RE): | NOAEL | 0,2 | | Rat | (Combined Chronic Toxicity/Carcinogenicit y Studies) | Aerosol, Analogous conclusion | | |
| Aspiration hazard: | | | | c). | | Negative | | |
| Specific target organ toxicity - single exposure (STOT-SE), inhalative: | | | | | | Target organ(s): respiratory system, May cause respiratory irritation. Target | | |
| Specific target organ toxicity - repeated exposure (STOT- RE), inhalat.: | | | | | | organ(s): respiratory system, Positive | | |
| | 916 | \$ | ΩX. | χe. | 25 | 2 | | |
| Methylenediphenyl diisocyanate, n | nodified | 1 | 21 | P | 1 F = | A | | |
| Toxicity / effectEndpointValue Acute toxicity, by oral route:LD50> | 5000 | | Unit | Organism Rat | Test method | Notes | | |
| Acute toxicity, by dermalLD50>940 | 0000 00 | - | mg/kg mg/kg | Rabbit | | 8 | | |
| route: | 1 | | l mg/kg | Rabbit | | | | |
| Acute toxicity, by inhalation:LC500 | ,49 | - | | Det | 56 | Assess Dees | | |
| | | | mg/l/4h | Rat | | Aerosol, Does not conform with EU classification. | | |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | | | |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) OECD 406 (Skin | Irritant | | |
| Respiratory or skin sensitisation: | | | | Guinea pig | Sensitisation) | Sensitising (inhalation and skin contact) | | |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative | | |
| Aspiration hazard: | | | | | | No | | |
| Symptoms: | | | | | | watering eyes, breathing difficulties, asthmatic symptoms, coughing Irritation of the | | |
| Specific target organ toxicity - single exposure (STOT-SE), inhalative: | | | | | | respiratory tract | | |
| 4,4'-methylenediphenyl diisocyanate | | | | | | | | |
| Toxicity / effectEndpoint | | Value | Unit | Organism | Test method | Notes | | |
| | | <u>, ruuo</u> | | | | 7 | | |

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| Acute toxicity, by oral route: | LD50 | >2000 | mg/kg | Rat | | Analogous conclusionRichtl inie 84/449/EWG, B1 |
|--|-------|-------|---------|---------------------------|--|--|
| Acute toxicity, by dermal route: | LD50 | >9400 | mg/kg | Rabbit | OECD 402 (Acute Dermal Toxicity) | Analogous conclusion Analogous |
| Acute toxicity, by inhalation: | LC50 | 0,368 | mg/l/4h | Rat | OECD 403 (Acute Inhalation Toxicity) | conclusionPrüfa tmosphäre: Staub/Nebel Irritant, |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Analogous conclusion Not irritant, Analogous |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) OECD 406 (Skin | conclusion NegativeVerurs acht keine |
| Respiratory or skin sensitisation: | | | 5 | Guinea pig | Sensitisation) | Hautsensibilisier ung PositiveSensibili sierung durchHautkonta |
| Respiratory or skin sensitisation: | | | | Mouse | OECD 429 (Skin Sensitisation - Local Lymph Node Assay) | kt möglich Negative Negative, Analogous |
| Germ cell mutagenicity: | | | | Rat | in vivo | conclusion |
| Germ cell mutagenicity: | | | | Salmonella typhimurium | in vitro | Aerosol, Studies on carcinogenic effects in |
| Carcinogenicity: | | | | Rat | OECD 453 (Combined Chronic Toxicity/Carcinogenicit y Studies) | animal experiments., Analogous conclusion Analogous conclusion, Aerosol Analogous |
| Reproductive toxicity: | NOAEL | 4 | mg/m3 | Rat | OECD 414 (Prenatal Developmental Toxicity Study) | Conclusion, Aerosol Analogous conclusion, |
| Reproductive toxicity (Developmental toxicity): | NOAEL | 0,004 | mg/l | Rat | OECD 414 (Prenatal Developmental Toxicity Study) OECD 414 (Prenatal | Aerosol May cause respiratory |
| Reproductive toxicity (Effects on fertility): | NOAEL | 12 | | Rat | Developmental Toxicity Study) | irritation. Target organ(s): respiratory |
| Specific target organ toxicity - single exposure (STOT-SE), inhalative: | | | | | | system, Acute Tox. 4 |
| Specific target organ toxicity - repeated exposure (STOT- RE), inhalat.: | | | 4. | 1.5 | | |

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| Specific target organ toxicity - repeated exposure (STOT- RE), inhalat.: | LOAEL | 1 | mg/m3 | Rat | OECD 453 (Combined Chronic Toxicity/Carcinogenicit y Studies) | Target organ(s): respiratory system, Irritation of the respiratory tract, Aerosol, Analogous conclusionExpo sitionsdauer: 2 a Target |
|--|-------|-----|-------|-----|--|---|
| Specific target organ toxicity - repeated exposure (STOT- RE), inhalat.: | NOAEL | 0,2 | mg/m3 | Rat | OECD 453 (Combined Chronic Toxicity/Carcinogenicit y Studies) | organ(s): respiratory system, Irritation of the respiratory tract, Aerosol, Analogous conclusionExpo sitionsdauer: 2 a |

| Talc | | | | 201 | | |
|--|----------|-------|------|----------|-------------|----------------------------------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Skin corrosion/irritation: | 8 | | | 100 | 8 | Not irritant |
| Serious eye damage/irritation: | | | | | | Not irritant |
| Respiratory or skin sensitisation: Germ cell mutagenicity: | | | | | | Not sensitizising |
| Carcinogenicity: | | | | | 8 | Negative |
| Reproductive toxicity: | | - | | 0 | 8 | Negative |
| Symptoms: | | | | Rat | | Negative |
| | | | | | | mucous membrane irritation |

| Foxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|-----------------------------------|----------|--------|---------|----------|--|---|
| Acute toxicity, by oral route: | LD50 | >5000 | mg/kg | Rat | | 1.5 |
| Acute toxicity, by oral route: | LD50 | > 1000 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | Maximum achievable concentration. |
| Acute toxicity, by dermal oute: | LD50 | > 2000 | mg/kg | Rat | OECD 402 (Acute Dermal Toxicity) | |
| Acute toxicity, by inhalation: | LC50 | >0,691 | mg/l/4h | Rat | 8 | |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) OECD 471 (Bacterial | Not irritant |
| Germ cell mutagenicity: | | | | | Reverse Mutation Test) | Negative |

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification). PLASTGRIP 30 IK / PLASTGRIP 90 IK / PLASTGRIP 210 IK

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| Toxicity / effect 12.1. Toxicity to fish: | Endpoint | Time | Value | Unit | Organism | Test method | Notes n.d.a. |
|--|---|-------------------------------|--|--------------|--|--|--|
| 12.1. Toxicity to | | | | | | | n.d.a. |
| daphnia: | | | | | | | |
| 12.1. Toxicity to algae: | | | - | - | 10 | | n.d.a. |
| 12.2. Persistence and | - | | C. | - | 2 | 10; | With water at |
| degradability: | | | | | | | the interface, |
| | | | | | | | transforms |
| | | | | | | | slowly with |
| | | | | | | | formation of |
| | | | | | | | CO2 into a |
| | | | | | | | firm, insoluble |
| | | | | | | | reaction |
| | | | | | | | product with a |
| | | | | | | | high melting |
| | | | | | | | point |
| | | | | | | | (polycarbamide) |
| | | | | | | | . According to |
| | | | | | | | experience |
| | | | | | | | available to |
| | | | | | | | date. |
| | | | | | | | polycarbamide |
| | | | | | | | is inert and non- |
| | | | | | | | degradable. |
| | | | | | | | n.d.a. |
| | | | | | | | |
| 12.3. Bioaccumulative potential: | | | | | 3 | 5 | 2 |
| 12.4. Mobility in soil: | | | | | | 2 | n.d.a. |
| 12.5. Results of PBT | | | | | | | n.d.a. |
| and vPvB assessment 12.6. Other adverse | | | | | 22 | 22 | |
| 12.0. Uther adverse | | | | | | | |
| effects: | | | | | 2 | 2 | n.d.a. |
| effects: | | | | | 0 | | n.d.a. |
| effects: Diphenylmethanediisocya | inate, isomeres and | d homologu | es | | Organism | Test method | |
| effects: Diphenylmethanediisocya Toxicity / effectEndpointT | imeValueUnit | homologu | es | | Organism Brachydanio rerio | Test method | n.d.a. Notes |
| effects: Diphenylmethanediisocya Toxicity / effectEndpointT | imeValueUnit | homologu | es | | Organism Brachydanio rerio | OECD 203 | |
| effects: Diphenylmethanediisocya Toxicity / effectEndpointT | imeValueUnit | d homologu | es | | | OECD 203 (Fish, Acute Toxicity Test) | |
| Diphenylmethanediisocya Toxicity / effectEndpointT 12.1. Toxicity to fish:LC50 12.1. Toxicity to | imeValueUnit | homologu 2 homologu 24h | es | mg/l | | OECD 203 (Fish, Acute Toxicity Test) OECD 202 | |
| Diphenylmethanediisocya Toxicity / effectEndpointT 12.1. Toxicity to fish:LC50 12.1. Toxicity to | imeValueUnit 096h>1000mg/l | | | mg/l | Brachydanio rerio | OECD 203 (Fish, Acute Toxicity Test) OECD 202 (Daphnia sp. | |
| Diphenylmethanediisocya Toxicity / effectEndpointT 12.1. Toxicity to fish:LC50 12.1. Toxicity to | imeValueUnit 096h>1000mg/l | | | mg/l | Brachydanio rerio | OECD 203 (Fish, Acute Toxicity Test) OECD 202 (Daphnia sp. Acute | |
| Diphenylmethanediisocya Toxicity / effectEndpointT 12.1. Toxicity to fish:LC50 12.1. Toxicity to | imeValueUnit 096h>1000mg/l | | | mg/l | Brachydanio rerio | OECD 203 (Fish, Acute Toxicity Test) OECD 202 (Daphnia sp. | |
| Diphenylmethanediisocya Toxicity / effectEndpointT 12.1. Toxicity to fish:LC50 12.1. Toxicity to | imeValueUnit 096h>1000mg/l | | | mg/l | Brachydanio rerio | OECD 203 (Fish, Acute Toxicity Test) OECD 202 (Daphnia sp. Acute Immobilisation | |
| effects: Diphenylmethanediisocya Toxicity / effectEndpointT 12.1. Toxicity to fish:LC50 12.1. Toxicity to daphnia: | imeValueUnit 096h>1000mg/I EC50 | 24h | >1000 | | Brachydanio rerio | OECD 203 (Fish, Acute Toxicity Test) OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| Diphenylmethanediisocya Toxicity / effectEndpointT 12.1. Toxicity to fish:LC50 12.1. Toxicity to daphnia: | imeValueUnit 096h>1000mg/l | | | mg/l | Brachydanio rerio | OECD 203 (Fish, Acute Toxicity Test) OECD 202 (Daphnia sp. Acute Immobilisation Test) OECD 202 | |
| Diphenylmethanediisocya Toxicity / effectEndpointT 12.1. Toxicity to fish:LC50 12.1. Toxicity to daphnia: | imeValueUnit 096h>1000mg/I EC50 | 24h | >1000 | | Brachydanio rerio | OECD 203 (Fish, Acute Toxicity Test) OECD 202 (Daphnia sp. Acute Immobilisation Test) OECD 202 (Daphnia sp. | |
| Diphenylmethanediisocya Toxicity / effectEndpointT 12.1. Toxicity to fish:LC50 12.1. Toxicity to daphnia: | imeValueUnit 096h>1000mg/I EC50 | 24h | >1000 | | Brachydanio rerio | OECD 203 (Fish, Acute Toxicity Test) OECD 202 (Daphnia sp. Acute Immobilisation Test) OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| Diphenylmethanediisocya Toxicity / effectEndpointT 12.1. Toxicity to fish:LC50 12.1. Toxicity to daphnia: | imeValueUnit 096h>1000mg/I EC50 | 24h | >1000 | | Brachydanio rerio | OECD 203 (Fish, Acute Toxicity Test) OECD 202 (Daphnia sp. Acute Immobilisation Test) OECD 202 (Daphnia sp. Acute Immobilisation Test) OECD 201 | |
| effects: Diphenylmethanediisocya Toxicity / effectEndpointT 12.1. Toxicity to fish:LC50 12.1. Toxicity to daphnia: 12.1. Toxicity to daphnia: | imeValueUnit 096h>1000mg/I EC50 NOEC/NOEL | 24h 21d | >1000 | mg/l | Brachydanio rerio | OECD 203 (Fish, Acute Toxicity Test) OECD 202 (Daphnia sp. Acute Immobilisation Test) OECD 202 (Daphnia sp. Acute Immobilisation Test) OECD 201 (Alga, Growth | |
| Diphenylmethanediisocya Toxicity / effectEndpointT 12.1. Toxicity to fish:LC50 12.1. Toxicity to daphnia: | imeValueUnit 096h>1000mg/I EC50 | 24h | >1000 | | Brachydanio rerio Daphnia magna Daphnia magna Scenedesmus | OECD 203 (Fish, Acute Toxicity Test) OECD 202 (Daphnia sp. Acute Immobilisation Test) OECD 202 (Daphnia sp. Acute Immobilisation Test) OECD 201 (Alga, Growth Inhibition Test) | |
| Diphenylmethanediisocya Toxicity / effectEndpointT 12.1. Toxicity to fish:LC50 12.1. Toxicity to Japhnia: 12.1. Toxicity to Japhnia: | imeValueUnit 096h>1000mg/I EC50 NOEC/NOEL | 24h 21d | >1000 | mg/l | Brachydanio rerio | OECD 203 (Fish, Acute Toxicity Test) OECD 202 (Daphnia sp. Acute Immobilisation Test) OECD 202 (Daphnia sp. Acute Immobilisation Test) OECD 201 (Alga, Growth Inhibition Test) OECD 302 C | |
| Diphenylmethanediisocya Toxicity / effectEndpointT 12.1. Toxicity to fish:LC50 12.1. Toxicity to daphnia: 12.1. Toxicity to daphnia: | imeValueUnit 096h>1000mg/I EC50 NOEC/NOEL | 24h 21d 72h | >1000 >10 >10 | mg/l mg/l | Brachydanio rerio Daphnia magna Daphnia magna Scenedesmus subspicatus | OECD 203 (Fish, Acute Toxicity Test) OECD 202 (Daphnia sp. Acute Immobilisation Test) OECD 202 (Daphnia sp. Acute Immobilisation Test) OECD 201 (Alga, Growth Inhibition Test) OECD 302 C (Inherent | Notes |
| effects: Diphenylmethanediisocya Toxicity / effectEndpointT 12.1. Toxicity to fish:LC50 12.1. Toxicity to daphnia: 12.1. Toxicity to daphnia: 12.1. Toxicity to algae: 12.2. Persistence and | imeValueUnit 096h>1000mg/I EC50 NOEC/NOEL | 24h 21d | >1000 | mg/l | Brachydanio rerio Daphnia magna Daphnia magna Scenedesmus | OECD 203 (Fish, Acute Toxicity Test) OECD 202 (Daphnia sp. Acute Immobilisation Test) OECD 202 (Daphnia sp. Acute Immobilisation Test) OECD 201 (Alga, Growth Inhibition Test) OECD 302 C (Inherent Biodegradability - | Notes Notes Notes Not readily |
| Diphenylmethanediisocya Toxicity / effectEndpointT 12.1. Toxicity to fish:LC50 12.1. Toxicity to daphnia: 12.1. Toxicity to daphnia: 12.1. Toxicity to daphnia: 12.2. Persistence and | imeValueUnit 096h>1000mg/I EC50 NOEC/NOEL | 24h 21d 72h | >1000 >10 >10 | mg/l mg/l | Brachydanio rerio Daphnia magna Daphnia magna Scenedesmus subspicatus | OECD 203 (Fish, Acute Toxicity Test) OECD 202 (Daphnia sp. Acute Immobilisation Test) OECD 202 (Daphnia sp. Acute Immobilisation Test) OECD 201 (Alga, Growth Inhibition Test) OECD 302 C (Inherent Biodegradability - Modified MITI | Notes |
| Diphenylmethanediisocya Toxicity / effectEndpointT 12.1. Toxicity to fish:LC50 12.1. Toxicity to daphnia: 12.1. Toxicity to daphnia: 12.1. Toxicity to daphnia: 12.2. Persistence and | imeValueUnit 096h>1000mg/I EC50 NOEC/NOEL | 24h 21d 72h | >1000 >10 >10 | mg/l mg/l | Brachydanio rerio Daphnia magna Daphnia magna Scenedesmus subspicatus | OECD 203 (Fish, Acute Toxicity Test) OECD 202 (Daphnia sp. Acute Immobilisation Test) OECD 202 (Daphnia sp. Acute Immobilisation Test) OECD 201 (Alga, Growth Inhibition Test) OECD 302 C (Inherent Biodegradability - Modified MITI Test (II)) | Notes Notes Not readily |
| Diphenylmethanediisocya Toxicity / effectEndpointT 12.1. Toxicity to fish:LC50 12.1. Toxicity to daphnia: 12.1. Toxicity to daphnia: 12.1. Toxicity to daphnia: 12.2. Persistence and | imeValueUnit 096h>1000mg/I EC50 NOEC/NOEL | 24h 21d 72h | >1000 >10 >10 | mg/l mg/l | Brachydanio rerio Daphnia magna Daphnia magna Scenedesmus subspicatus | OECD 203 (Fish, Acute Toxicity Test) OECD 202 (Daphnia sp. Acute Immobilisation Test) OECD 202 (Daphnia sp. Acute Immobilisation Test) OECD 201 (Alga, Growth Inhibition Test) OECD 302 C (Inherent Biodegradability - Modified MITI Test (II)) OECD 305 | Notes Notes Not readily |
| Diphenylmethanediisocya Toxicity / effectEndpointT 12.1. Toxicity to fish:LC50 12.1. Toxicity to daphnia: 12.1. Toxicity to daphnia: 12.1. Toxicity to daphnia: 12.2. Persistence and | imeValueUnit 096h>1000mg/I EC50 NOEC/NOEL | 24h 21d 72h | >1000 >10 >10 | mg/l mg/l | Brachydanio rerio Daphnia magna Daphnia magna Scenedesmus subspicatus | OECD 203 (Fish, Acute Toxicity Test) OECD 202 (Daphnia sp. Acute Immobilisation Test) OECD 202 (Daphnia sp. Acute Immobilisation Test) OECD 201 (Alga, Growth Inhibition Test) OECD 302 C (Inherent Biodegradability - Modified MITI Test (II)) OECD 305 (Bioconcentration | Notes Notes Not readily |
| Diphenylmethanediisocya Toxicity / effectEndpointT 12.1. Toxicity to fish:LC50 12.1. Toxicity to daphnia: 12.1. Toxicity to daphnia: 12.1. Toxicity to daphnia: 12.2. Persistence and degradability: | imeValueUnit 096h>1000mg/I EC50 NOEC/NOEL ErC50 | 24h 21d 72h 28d | >1000 >10 >10 >10 >1640 0 | mg/l mg/l | Brachydanio rerio Daphnia magna Daphnia magna Scenedesmus subspicatus activated sludge | OECD 203 (Fish, Acute Toxicity Test) OECD 202 (Daphnia sp. Acute Immobilisation Test) OECD 202 (Daphnia sp. Acute Immobilisation Test) OECD 201 (Alga, Growth Inhibition Test) OECD 302 C (Inherent Biodegradability - Modified MITI Test (II)) OECD 305 (Bioconcentration - Flow-Through | Notes Notes Notes Not readily biodegradable |
| Diphenylmethanediisocya Toxicity / effectEndpointT 12.1. Toxicity to fish:LC50 12.1. Toxicity to daphnia: 12.1. Toxicity to daphnia: 12.1. Toxicity to daphnia: 12.2. Persistence and degradability: 12.3. Bioaccumulative | imeValueUnit 096h>1000mg/I EC50 NOEC/NOEL | 24h 21d 72h | >1000 >10 >10 | mg/l mg/l | Brachydanio rerio Daphnia magna Daphnia magna Scenedesmus subspicatus | OECD 203 (Fish, Acute Toxicity Test) OECD 202 (Daphnia sp. Acute Immobilisation Test) OECD 202 (Daphnia sp. Acute Immobilisation Test) OECD 201 (Alga, Growth Inhibition Test) OECD 302 C (Inherent Biodegradability - Modified MITI Test (II)) OECD 305 (Bioconcentration | Notes Notes Notes Not readily biodegradable No significant |
| effects: Diphenylmethanediisocya Toxicity / effectEndpointT 12.1. Toxicity to fish:LC50 12.1. Toxicity to daphnia: 12.1. Toxicity to daphnia: 12.1. Toxicity to algae: 12.2. Persistence and degradability: 12.3. Bioaccumulative | imeValueUnit 096h>1000mg/I EC50 NOEC/NOEL ErC50 | 24h 21d 72h 28d | >1000 >10 >10 >10 >1640 0 | mg/l mg/l | Brachydanio rerio Daphnia magna Daphnia magna Scenedesmus subspicatus activated sludge | OECD 203 (Fish, Acute Toxicity Test) OECD 202 (Daphnia sp. Acute Immobilisation Test) OECD 202 (Daphnia sp. Acute Immobilisation Test) OECD 201 (Alga, Growth Inhibition Test) OECD 302 C (Inherent Biodegradability - Modified MITI Test (II)) OECD 305 (Bioconcentration - Flow-Through | Notes Notes Notes Not readily biodegradable |
| effects: Diphenylmethanediisocya Toxicity / effectEndpointT 12.1. Toxicity to fish:LC50 12.1. Toxicity to daphnia: 12.1. Toxicity to daphnia: 12.1. Toxicity to algae: 12.2. Persistence and degradability: 12.3. Bioaccumulative potential: | imeValueUnit 096h>1000mg/I EC50 NOEC/NOEL ErC50 | 24h 21d 72h 28d | >1000 >10 >10 >10 >1640 0 | mg/l mg/l | Brachydanio rerio Daphnia magna Daphnia magna Scenedesmus subspicatus activated sludge | OECD 203 (Fish, Acute Toxicity Test) OECD 202 (Daphnia sp. Acute Immobilisation Test) OECD 202 (Daphnia sp. Acute Immobilisation Test) OECD 201 (Alga, Growth Inhibition Test) OECD 302 C (Inherent Biodegradability - Modified MITI Test (II)) OECD 305 (Bioconcentration - Flow-Through | Notes Notes Notes Notes Not readily biodegradable No significant biodegradation is expected. |
| effects: Diphenylmethanediisocya Toxicity / effectEndpointT 12.1. Toxicity to fish:LC50 12.1. Toxicity to daphnia: 12.1. Toxicity to daphnia: 12.1. Toxicity to algae: 12.2. Persistence and degradability: 12.3. Bioaccumulative | imeValueUnit 096h>1000mg/I EC50 NOEC/NOEL ErC50 | 24h 21d 72h 28d | >1000 >10 >10 >10 >1640 0 | mg/l mg/l | Brachydanio rerio Daphnia magna Daphnia magna Scenedesmus subspicatus activated sludge | OECD 203 (Fish, Acute Toxicity Test) OECD 202 (Daphnia sp. Acute Immobilisation Test) OECD 202 (Daphnia sp. Acute Immobilisation Test) OECD 201 (Alga, Growth Inhibition Test) OECD 302 C (Inherent Biodegradability - Modified MITI Test (II)) OECD 305 (Bioconcentration - Flow-Through | Notes Notes Notes Notreadily biodegradable No significant biodegradation |

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| Toxicity to bacteria: | EC50 | 3h | >100 | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) OECD 207 |
|-----------------------|-----------|-----|-------|-------|-------------------------|---|
| Toxicity to annelids: | NOEC/NOEL | 14d | >1000 | mg/kg | Lumbricus terrestris | (Earthworm, Acute Toxicity Tests) |

| Toxicity / effectEndpointT | | 1 | Value | Unit | Organism | Test method | Notes |
|--------------------------------------|-----------|-----|-------|------|---------------|---|--|
| 12.1. Toxicity to fish:LC50 |)96h | | >1000 | mg/l | | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 21d | >10 | mg/l | Daphnia magna | OECD 211 (Daphnia magna Reproduction Test) OECD 201 | × |
| 12.1. Toxicity to algae: | EC50 | 72h | >1640 | mg/l | | (Alga, Growth Inhibition Test) OECD 302 C | |
| 12.2. Persistence and degradability: | | 28d | 0 | % | 54 | (Inherent Biodegradability - Modified MITI Test (II)) | Not biodegradable |
| 12.3. Bioaccumulative potential: | BCF | | 200 | | 6 | | High |
| Toxicity to bacteria: | EC50 | 3h | >100 | mg/l | | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) | |
| Other information: | AOX | | | | | | Contains organically bound halogens, which may contribute to the AOX value in wastewater. |

| Toxicity / effectEndpoint | | Time | Value | Unit | Organism | Test method | Notes |
|------------------------------|------|------|--------|------|-------------------|--|-------------------------|
| 2.1. Toxicity to fish:LC50 | | 96h | >1000 | mg/l | Brachydanio rerio | OECD 203 (Fish, Acute Toxicity Test) | Analogous conclusion |
| 2.1. Toxicity to Iaphnia: | EC50 | 24h | > 1000 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | Analogous conclusion |

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| 12.1. Toxicity to daphnia: | NOEC/NOEL | 21d | > 10 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. | Analogous conclusion |
|---|-----------|------|---------|-------|----------------------------|--|--|
| Japinna. | | | | | | Acute Immobilisation Test) OECD 201 | Conclusion |
| 12.1. Toxicity to algae: | ErC50 | 72h | > 1640 | mg/l | Scenedesmus subspicatus | (Alga, Growth Inhibition Test) OECD 302 C | Analogous conclusion |
| 12.2. Persistence and degradability: | | 28d | 0 | % | | (Inherent Biodegradability - Modified MITI Test (II)) OECD 305 (Bioconcentration | Analogous conclusion |
| 12.3. Bioaccumulative potential: | BCF | 28d | 0,00008 | | Cyprinus caprio | - Flow-Through Fish Test) OECD 209 (Activated | |
| Toxicity to bacteria: | EC50 | 3h | > 100 | mg/l | activated sludge | Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) OECD 207 (Earthworm, Acute Toxicity | Analogous conclusion |
| Toxicity to annelids: | NOEC/NOEL | 14d | > 1000 | mg/kg | Lumbricus terrestris | Tests) | Analogous conclusion |
| Water solubility: | | | | | | | According to experience available to date, polycarbamide is inert and non- degradable., With water at the interface, transforms slowly with formation of CO2 into a firm, insoluble reaction product with a high melting point (polycarbamide) |
| Talc Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| Water solubility: | | | < 0,1 | % | | | |
| Silica, amorphous | | 5 | 5 | | | | 8 |
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | LC50 | 96h | >10000 | mg/l | Brachydanio rerio | OECD 203 (Fish, Acute Toxicity Test) | |
| | | | | | | | |

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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) | | |
| 14.2. UN proper shipping name: | | |
| 14.3. Transport hazard class(es): | n.a. | |
| 14.4. Packing group: | n.a. | |
| Classification code: | n.a. | |
| LQ: | n.a. | |
| 14.5. Environmental hazards: | Not applicable | |
| Tunnel restriction code: | | |
| Transport by sea (IMDG-code) | | |
| 14.2. UN proper shipping name: | | |
| 14.3. Transport hazard class(es): | n.a. | |
| 14.4. Packing group: | n.a. | |
| Marine Pollutant: | n.a | |
| 14.5. Environmental hazards: | Not applicable | |
| Transport by air $(I \land T \land)$ | | |
| Transport by air (IATA) | | |
| 14.2. UN proper shipping name: | | |
| 14.3. Transport hazard class(es): 14.4. Packing group: | n.a. | |
| 14.5. Environmental hazards: | n.a. Not applicable | |
| | Not applicable | |
| 14.6. Special precautions for user | | |
| Unless specified otherwise, general measures for safe trai | nsport must be followed. | |
| 14.7. Transport in bulk according to Annex II o | f MARPOL and the IBC Code | |
| Non-dangerous material according to Transport Regulation | | |
| | | |
| SECTION | I 15: Regulatory information | |
| | | |

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)!

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Regulation (EC) No 1907/2006, Annex XVII 4,4'-methylenediphenyl diisocyanate Diphenylmethanediisocyanate, isomeres and homologues Methylenediphenyl diisocyanate, modified Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC):

0%

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

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4, 11, 12, 15

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 |
|--|--|
| Acute Tox. 4, H332 Eye Irrit. 2, H319 | Classification according to calculation procedure. |
| STOT SE 3, H335 | Classification according to calculation procedure. Classification according to calculation procedure. |
| Skin Irrit. 2, H315 Resp. Sens. 1, H334 | Classification according to calculation procedure. |
| Skin Sens. 1, H317 | Classification according to calculation procedure. Classification according to calculation procedure. |
| Carc. 2, H351 STOT RE 2, H373 | Classification according to calculation procedure. Classification according to calculation procedure. |
| | 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).

H373 May cause damage to organs through prolonged or repeated exposure by inhalation.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation. H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

Acute Tox. — Acute toxicity - inhalation Eye Irrit. — Eye irritation STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation Skin Irrit. — Skin irritation Resp. Sens. — Respiratory sensitization Skin Sens. — Skin sensitization Carc. — Carcinogenicity STOT RE — Specific target organ toxicity - repeated exposure

Any abbreviations and acronyms used in this document:

(GB) Page 18 of 20 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 05.02.2018 / 0002 Replacing version dated / version: 15.02.2017 / 0001 Valid from: 05.02.2018 PDF print date: 05.02.2018 MasterWeld 60 and MasterWeld 210 ACGIH American Conference of Governmental Industrial Hygienists ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road) AOEL Acceptable Operator Exposure Level AOX Adsorbable organic halogen compounds approx.approximately Art., Art. no.Article number ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP) BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) **BCF** Bioconcentration factor BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation) BHT Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol) BMGV Biological monitoring guidance value (EH40, UK) BOD Biochemical oxygen demand **BSEF Bromine Science and Environmental Forum** bwbody weight CAS Chemical Abstracts Service CEC Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques CIPAC Collaborative International Pesticides Analytical Council CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures) CMR carcinogenic, mutagenic, reproductive toxic COD Chemical oxygen demand CTFA Cosmetic, Toiletry, and Fragrance Association DMEL Derived Minimum Effect Level DNEL Derived No Effect Level DOC Dissolved organic carbon DT50 Dwell Time - 50% reduction of start concentration DVS Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes) dwdry weight e.g.for example (abbreviation of Latin 'exempli gratia'), for instance EČEuropean Community ECHA European Chemicals Agency EEA European Economic Area EEC European Economic Community EINECSEuropean Inventory of Existing Commercial Chemical Substances ELINCSEuropean List of Notified Chemical Substances ENEuropean Norms EPA United States Environmental Protection Agency (United States of America) **ERC Environmental Release Categories** ESExposure scenario etc.et cetera **EUEuropean Union** EWC European Waste Catalogue Fax. Fax number gen. general GHS Globally Harmonized System of Classification and Labelling of Chemicals GWP Global warming potential HET-CAMHen's Egg Test - Chorionallantoic Membrane HGWP Halocarbon Global Warming Potential IARC International Agency for Research on Cancer IATA International Air Transport Association IBCIntermediate Bulk Container IBC (Code)International Bulk Chemical (Code) ICInhibitory concentration IMDG-codeInternational Maritime Code for Dangerous Goods incl.including, inclusive IUCLIDInternational Uniform ChemicaL Information Database LClethal concentration LC50 lethal concentration 50 percent kill

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These statements were made by:

(GB)

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