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Safety data sheet according to 1907/2006/EC, Article 31

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| Trade name Relevant identified uses of the substance or mixture and | MC-POWERPRO HCR - Komponente B |
|--|--|
| uses advised against · Application of the substance | No further relevant information available. |
| / the mixture | Epoxy coating Hardening agent/ Curing agent |
| • Details of the supplier of the • Manufacturer/Supplier: | MC-Bauchemie Müller GmbH & Co. KG Am Kruppwald 1-8 D-46238 Bottrop Tel.: +49(0)2041-101-0 Fax.: +49(0)2041-101-400 E-Mail: info@mc-bauchemie.de MC-Bauchemie AG Hagackerstr. 10 CH-8953 Dietikon |
| | Tel.: +44-7400510 Fax : +44-7400533 |
| · Informing department: | msds@mc-bauchemie.de |
| 2 Hazards identification | |
| · Classification of the substan | |
| Classification of the substan Acute Tox. 4 H302 Harmi | ful if swallowed. |
| Classification of the substan Acute Tox. 4 H302 Harmi Acute Tox. 5 H333 May b | ful if swallowed. De harmful if inhaled. |
| Classification of the substandAcute Tox. 4H302 HarmingAcute Tox. 5H333 May bSkin Corr. 1BH314 Cause | ful if swallowed. he harmful if inhaled. hes severe skin burns and eye damage. |
| Classification of the substand Acute Tox. 4H302 Harmin H333 May bAcute Tox. 5H333 May bSkin Corr. 1BH314 CauseEye Dam. 1H318 Cause | ful if swallowed. De harmful if inhaled. Des severe skin burns and eye damage. Des serious eye damage. |
| Classification of the substantAcute Tox. 4H302 HarmingAcute Tox. 5H333 May bSkin Corr. 1BH314 CauseEye Dam. 1H318 CauseSkin Sens. 1H317 May c | ful if swallowed. he harmful if inhaled. hes severe skin burns and eye damage. |
| Classification of the substantAcute Tox. 4H302 HarmingAcute Tox. 5H333 May beSkin Corr. 1BH314 CauseEye Dam. 1H318 CauseSkin Sens. 1H317 May ceAquatic Chronic 3H412 Harming | ful if swallowed. he harmful if inhaled. hes severe skin burns and eye damage. hes serious eye damage. hause an allergic skin reaction. |
| Classification of the substantAcute Tox. 4H302 HarmingAcute Tox. 5H333 May bSkin Corr. 1BH314 CauseEye Dam. 1H318 CauseSkin Sens. 1H317 May c | ful if swallowed. De harmful if inhaled. Des severe skin burns and eye damage. Des serious eye damage. Deause an allergic skin reaction. ful to aquatic life with long lasting effects. |
| Classification of the substant Acute Tox. 4 H302 Harmi Acute Tox. 5 H333 May b Skin Corr. 1B H314 Cause Eye Dam. 1 H318 Cause Skin Sens. 1 H317 May c Aquatic Chronic 3 H412 Harmi Cause | ful if swallowed. be harmful if inhaled. es severe skin burns and eye damage. es serious eye damage. rause an allergic skin reaction. ful to aquatic life with long lasting effects. The product is classified and labelled according to the Globa |
| Classification of the substant Acute Tox. 4 H302 Harmi Acute Tox. 5 H333 May b Skin Corr. 1B H314 Cause Eye Dam. 1 H318 Cause Skin Sens. 1 H317 May c Aquatic Chronic 3 H412 Harmi Label elements GHS label elements | ful if swallowed. be harmful if inhaled. es severe skin burns and eye damage. es serious eye damage. rause an allergic skin reaction. ful to aquatic life with long lasting effects. The product is classified and labelled according to the Globe Harmonised System (GHS). |



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Trade name MC-POWERPRO HCR - Komponente B

| | (Contd. of page 1) |
|----------------------------|--|
| | Tetraethylenepentamine |
| | Amine polymer |
| | Kohlenwasserstoffe, C9-ungesättigt, polymerisiert |
| | m-phenylenebis(methylamine) |
| Hazard statements | Harmful if swallowed. |
| nuzuru statements | May be harmful if inhaled. |
| | Causes severe skin burns and eye damage. |
| | May cause an allergic skin reaction. |
| | Harmful to aquatic life with long lasting effects. |
| Dragoutioners, statements | Do not breathe dusts or mists. |
| Precautionary statements | |
| | IF ON SKIN (or hair): Take off immediately all contaminated |
| | clothing. Rinse skin with water/shower. |
| | IF IN EYES: Rinse cautiously with water for several minutes. |
| | Remove contact lenses, if present and easy to do. Continue |
| | rinsing. |
| | Immediately call a POISON CENTER/doctor. |
| | Specific treatment (see on this label). |
| | Take off contaminated clothing and wash it before reuse. |
| Other hazards | - |
| Results of PBT and vPvB as | sessment |
| PBT: | Not applicable. |
| vPvB· | Not applicable |

vPvB:

- Not applicable.
- 3 Composition/information on ingredients
- · Chemical characterisation: Mixtures
- · Description:

Binding agent with colouring agents.

Mixture consisting of the following components.

| CAS: 100-51-6 | Benzyl alcohol | 30-60% |
|--------------------|---|------------------|
| | Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319 | |
| CAS: 2855-13-2 | Isophorone diamine | <i>≥</i> 10-<25% |
| | Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412 | |
| | polymer amine terminated | 10-30% |
| | Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1B, H317 | |
| | Amine polymer | 10-30% |
| | Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1B, H317 | |
| CAS: 90640-66-7 | Tetraethylenepentamine | <i>≥</i> 5-<10% |
| | Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317 | |
| CAS: 1477-55-0 m-p | <i>m-phenylenebis(methylamine)</i> | <i>≥</i> 2.5-<3% |
| | Skin Corr. 1B, H314; Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317; Aquatic Acute 3, H402; Aquatic Chronic 3, H412 | |



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| | | (Contd. of page 2) |
|---------------------|---|---------------------|
| CAS: 69-72-7 | salicylic acid | <i>≥</i> 1-<1.5% |
| | Repr. 2, H361; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 5, H313 | |
| CAS: 71302-83-5 | Kohlenwasserstoffe, C9-ungesättigt, polymerisiert | <i>≥</i> 0.1-<1% |
| | Asp. Tox. 1, H304; Skin Sens. 1A, H317; Aquatic Chronic 3, H412 | |
| CAS: 61788-44-1 | 2,4,6-Tris-(1-Phenyl-Ethyl) carbolic acid | <i>≥</i> 0.25-<0.5% |
| | Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Acute 2, H401 | |
| CAS: 90640-67-8 | Triethylenetetramine | <i>≥</i> 0.1-<0.5% |
| | Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412 | |
| · Additional inform | nation For the wording of the listed hazard phrases refer to | section 16. |

4 First aid measures

| Description of first aid measu | ires |
|--|--|
| General information | Seek medical treatment. |
| | Instantly remove any clothing soiled by the product. |
| · After inhalation | Supply fresh air; consult doctor in case of symptoms. |
| After skin contact | Instantly wash with water and soap and rinse thoroughly. |
| After eye contact | Rinse opened eye for several minutes under running water. |
| | Seek medical treatment. |
| After swallowing | Drink copious amounts of water and provide fresh air. Instantly call |
| | for doctor. |
| Information for doctor | |
| Most important symptoms | |
| and effects, both acute and | |
| delayed | No further relevant information available. |
| Indication of any immediate | |
| medical attention and special | |
| treatment needed | No further relevant information available. |

5 Firefighting measures

- Extinguishing media
- Suitable extinguishing agents Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture
 - **re** No further relevant information available.
- Advice for firefighters
 Protective equipment:
- Put on breathing apparatus.

6 Accidental release measures

 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away. (Contd. on page 4)



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| • Environmental precautions: • Methods and material for | (Contd. of page 3) Prevent material from reaching sewage system, holes and cellars. |
|--|--|
| | |
| containment and cleaning up | : Absorb with liquid-binding material (sand, diatomite, acid binders, |
| C , | universal binders, sawdust). |
| | Use neutralising agent. |
| | Dispose of contaminated material as waste according to item 13. |
| | Ensure adequate ventilation. |
| Reference to other sections | See Section 7 for information on safe handling |
| | See Section 8 for information on personal protection equipment. |
| | See Section 13 for information on disposal. |

7 Handling and storage

· Handling

| · Precautions for safe handling | Store in cool, dry place in tightly closed containers. |
|---------------------------------|--|
| | Open and handle container with care. |

 Information about protection against explosions and fires: No special measures required.

- Conditions for safe storage, including any incompatibilities • Storage
- Requirements to be met by storerooms and containers: No special requirements.
 Information about storage in one common storage facility: Not required.
 Further information about storage conditions: Keep container tightly sealed.
 Storage class 8A Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see section 7.
- · Control parameters

| Components with critical values that require monitoring at the workplace: | | | |
|---|------------------------------------|--|--|
| CAS: 100-51-6 Benzyl alcohol | | | |
| WEEL (USA) | WEEL (USA) Long-term value: 10 ppm | | |
| CAS: 1477-5 | 5-0 m-phenylenebis(methylamine) | | |
| REL (USA) | Ceiling limit: 0.1 mg/m³ Skin | | |
| TLV (USA) | Ceiling limit: 0.018 ppm Skin | | |
| | (Contd. on page 5) | | |



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| DNELs | | (Contd. of p | bage |
|-----------------------|-----------|--|------|
| | 51_6 B | enzyl alcohol | |
| Oral | | 4 mg/kg bw/Tag (ArL) | |
| 0,0 | 2.122 | 20 mg/kg bw/Tag (Ark) | |
| Dermal | DNEL | 8 mg/kg bw/day (ArL) | |
| | | 40 mg/kg bw/day (Ark) | |
| Inhalative | DNEL | 22 mg/m ³ (ArL) | |
| | | 110 mg/m ³ (Ark) | |
| CAS: 285 | 5-13-2 | Isophorone diamine | |
| Oral | DNEL | 0.526 mg/kg bw/Tag (ArL) | |
| Inhalative | DNEL | 20.1 mg/m ³ (ArL) | |
| CAS: 147 | 7-55-0 | m-phenylenebis(methylamine) | |
| Dermal | DNEL | 0.33 mg/kg bw/day (Workers) | |
| Inhalative | DNEL | 1.2 mg/m³ (Workers) | |
| PNECs | | | |
| CAS: 100 | -51-6 B | enzyl alcohol | |
| PNEC 0.5 | 527 mg/ | I (Marine water sediment) | |
| 0.1 | 1 mg/l (l | Mew) | |
| 1 r | ng/l (Fr | esh water sediment) | |
| PNEC 0.4 | 156 mg/ | ′kg dwt (Bod) | |
| 5.2 | 27 mg/k | g dwt (Fresh water sediment) | |
| CAS: 285 | 5-13-2 | Isophorone diamine | |
| PNEC 0.0 |)06 mg/ | 1 (Mew) | |
| 0.0 |)6 mg/l | (Freshwater) | |
| | - | ′kg dwt (Sediment) | |
| | - | ′kg dwt (Fresh water sediment) | |
| | | m-phenylenebis(methylamine) | |
| PNEC 10 | | | |
| | - | 1 (Mew) | |
| | - | (I (Freshwater) | |
| | - | (kg dwt (Bod) | |
| | - | g dwt (Marine water sediment) | |
| | • | g dwt (Fresh water sediment) | |
| Additiona | l infori | <i>nation:</i> The lists that were valid during the compilation were used as l | bas |
| Exposure | | | |
| Personal General p | | tive equipment | |
| hygienic | | | |
| , <u>,</u> | | Instantly remove any soiled and impregnated garments. | |
| | | Wash hands during breaks and at the end of the work. | |
| | | Avoid contact with the eyes and skin. (Contd. on p | |



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| · Breathing equipment: | (Contd. of page 5) For spray application, type A2P2 combination filters should be used. |
|--|---|
| · Protection of hands: | Protective gloves. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation |
| · Material of gloves | After use of gloves apply skin-cleaning agents and skin cosmetics. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. |
| Penetration time of glove material | The exact breakthrough time must be obtained from the protective |
| · Eye protection: | glove manufacturer and must be observed. Safety glasses Tightly sealed safety glasses. |

9 Physical and chemical properties

| Information on basic physical and General Information | | |
|--|----------------------------------|-----------------|
| Appearance: | | |
| Form: | Fluid | |
| Colour: | Transparent | |
| Smell: | Amine-like | |
| pH-value: | Not determined. | |
| Change in condition | | |
| Melting point/freezing point: | Not determined | |
| Initial boiling point and boiling ra | ange: 205 °C | |
| Flash point: | 101 °C | |
| Auto-ignition temperature: | 380 °C | |
| Self-inflammability: | Product is not selfigniting. | |
| Explosive properties: | Product is not explosive. | |
| Critical values for explosion: | | |
| Lower: | 1.3 Vol % | |
| Upper: | 13 Vol % | |
| Steam pressure at 20 °C: | 0.1 hPa | |
| Density at 20 °C | 1.06 g/cm³ | |
| Solubility in / Miscibility with | | |
| Water: | Not miscible or difficult to mix | |
| | | (Contd. on page |



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 Viscosity: dynamic at 20 °C: kinematic:

150 mPas Not determined.

· Other information

No further relevant information available.

| Stability and reactivity | |
|---------------------------|---|
| Reactivity | No further relevant information available. |
| · Chemical stability | |
| Thermal decomposition / | |
| conditions to be avoided: | No decomposition if used according to specifications. |
| Possibility of hazardous | |
| reactions | No dangerous reactions known |
| Conditions to avoid | No further relevant information available. |
| Incompatible materials: | No further relevant information available. |
| Hazardous decomposition | |
| products: | No dangerous decomposition products known |

11 Toxicological information

| LD/LC50 | .D/LC50 values that are relevant for classification: | | |
|------------|--|---------------------|--|
| CAS: 100 | -51-6 Benzyl alcohol | | |
| Oral | LD50 | 1230 mg/kg (rat) | |
| | NOAEL 2nd year study | 200 mg/kg (mouse) | |
| | | 200 mg/kg (rat) | |
| Dermal | LD50 | 2000 mg/kg (rabbit) | |
| Inhalative | LC50/4 h | >4178 mg/l (rat) | |
| CAS: 285 | 5-13-2 Isophorone dian | nine | |
| Oral | LD50 | 1030 mg/kg (ATE) | |
| | | 1030 mg/kg (rat) | |
| | NOAEL | 250 mg/kg (rat) | |
| Dermal | LD50 | 1840 mg/kg (rabbit) | |
| | | >2000 mg/kg (rat) | |
| CAS: 147 | 7-55-0 m-phenylenebis | (methylamine) | |
| Oral | LD50 | 1180 mg/kg (mouse) | |
| | | 930 mg/kg (rat) | |



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| | | (Contd. of page 7) |
|-----------------------------------|--|--|
| Dermal | LD50 | >3100 mg/kg (rabbit) |
| CAS: 69- | 72-7 salicylic acid | |
| Oral | LD50 | 891 mg/kg (rat) |
| Dermal | LD50 | >2000 mg/kg (rat) |
| CAS: 90 | 640-67-8 Triethylene | tetramine |
| Oral | LD50 | 1716 mg/kg (rat) |
| Dermal | LD50 | 1465 mg/kg (rat) |
| Respirat | ory or skin | n Strong caustic effect. |
| | rosion/irritation | Caustic effect on skin and mucous membranes. |
| Respirat sensitisa | ory or skin ition al toxicological | Sensitization possible by skin contact. The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version: |
| Respirat sensitisa Addition | ory or skin ition al toxicological | Sensitization possible by skin contact. The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version: Harmful Corrosive |
| Respirat sensitisa Addition | ory or skin ition al toxicological | Sensitization possible by skin contact. The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version: Harmful |

12 Ecological information

| Aquatic to | - | |
|------------|------------------------------------|--|
| CAS: 100- | 51-6 Benzyl alcohol | |
| IC50/72h | 700 mg/l (algae) | |
| LC50/96h | 460 mg/l (Pimephales promelas) | |
| | 10 mg/l (Lepomis macrochirus) | |
| CAS: 2855 | -13-2 Isophorone diamine | |
| LC50/96h | 110 mg/l (Leucidus idus) | |
| EC50 | 1120 mg/l (Pseudomonas putida) | |
| EC50/48h | 23 mg/l (Daphnia magna) | |
| NOEC | 1.5 mg/l (Desmodesmus subspicatus) | |
| | 3 mg/l (Daphnia magna) | |
| ErC50/72h | >50 mg/l (Desmodesmus subspicatus) | |
| CAS: 1477 | -55-0 m-phenylenebis(methylamine) | |
| IC50/72h | 12 mg/l (algae) | |
| EC50/72h | 12 mg/l (Scenedesmus subspicatus) | |
| LC50/96h | >100 mg/l (Oncorhynchus mykiss) | |
| | 87.6 mg/l (Ory) | |
| EC50/48h | 15.2 mg/l (Daphnia magna) | |



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| | (Contd. of page 8 |
|---------------------------------|--|
| · Persistence and degradability | ty No further relevant information available. |
| · Behaviour in environmental | systems: |
| | No further relevant information available. |
| · Mobility in soil | No further relevant information available. |
| Additional ecological inform | ation: |
| · General notes: | Do not allow product to reach ground water, water bodies of sewage system. |
| | Danger to drinking water if even small quantities leak into soil. |
| Results of PBT and vPvB as | |
| PBT: | Not applicable. |
| · vPvB: | Not applicable. |
| Other adverse effects | No further relevant information available. |

13 Disposal considerations

| Waste treatment methods Recommendation | Must not be disposed of together with household garbage. Do not allow product to reach sewage system. |
|---|---|
| Uncleaned packagings: Recommendation: | Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. |

14 Transport information

| · UN-Number · ADR, IMDG, IATA | UN2735 |
|--|--|
| • UN proper shipping name • ADR, IMDG, IATA | AMINES, LIQUID, CORROSIVE, N.O.S. (Isophorone diamine, Tetraethylenepentamine) |
| · Transport hazard class(es) | |
| · ADR · Class · Label | 8 (C7) Corrosive substances. 8 |
| · IMDG, IATA · Class · Label | 8 Corrosive substances. 8 |
| · Packing group · ADR, IMDG, IATA | 11 |
| · Environmental hazards: · Marine pollutant: | No |
| • Special precautions for user • Kemler Number: | <i>Warning: Corrosive substances.</i> 80 |
| | (Contd. on page 10 |



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| | (Contd. of page 9 |
|---|---|
| · EMS Number: · Segregation groups | F-A,S-B (SGG18) Alkalis |
| • Stowage Category • Segregation Code | A SG35 Stow "separated from" SGG1-acids |
| • Transport in bulk according to Annex | |
| Marpol and the IBC Code | Not applicable. |
| · Transport/Additional information: | |
| · ADR · Limited quantities (LQ) · Excepted quantities (EQ) | 1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml |
| Transport category Tunnel restriction code | 2 E |
| IMDG Limited quantities (LQ) Excepted quantities (EQ) | 1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml |
| · UN "Model Regulation": | UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S (ISOPHORONE DIAMINE TETRAETHYLENEPENTAMINE), 8, II |

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- Named dangerous
- substances ANNEX I None of the ingredients is listed.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing data
- specification sheet: Environment protection department.
- · Contact:
- Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

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|---------------------------|---|
| | ICAO: International Civil Aviation Organisation |
| | ADR: Accord relatif au transport international des marchandises dangereuses pa route (European Agreement Concerning the International Carriage of Dangerou Goods by Road) |
| | IMDG: International Maritime Code for Dangerous Goods |
| | IATA: International Air Transport Association |
| | EINECS: European Inventory of Existing Commercial Chemical Substances |
| | ELINCS: European List of Notified Chemical Substances |
| | CAS: Chemical Abstracts Service (division of the American Chemical Society) |
| | DNEL: Derived No-Effect Level (REACH) |
| | PNEC: Predicted No-Effect Concentration (REACH) |
| | LC50: Lethal concentration, 50 percent |
| | LD50: Lethal dose, 50 percent |
| | PBT: Persistent, Bioaccumulative and Toxic |
| | vPvB: very Persistent and very Bioaccumulative |
| | Acute Tox. 4: Acute toxicity – Category 4 |
| | Acute Tox. 5: Acute toxicity – Category 5 |
| | Skin Corr. 1B: Skin corrosion/irritation – Category 1B |
| | Skin Irrit. 2: Skin corrosion/irritation – Category 2 |
| | Eye Dam. 1: Serious eye damage/eye irritation – Category 1 |
| | Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 |
| | Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1A: Skin sensitisation – Category 1A |
| | Skin Sens. 1A. Skin sensitisation – Category 1A Skin Sens. 1B: Skin sensitisation – Category 1B |
| | Repr. 2: Reproductive toxicity – Category 2 |
| | Asp. Tox. 1: Aspiration hazard – Category 1 |
| | Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard |
| | Category 2 |
| | Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard |
| | Category 3 |
| | Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquat |
| | hazard – Category 2 |
| | Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquat hazard – Category 3 |
| ·* Data compared to the | |
| previous version altered. | |
| previous version altered. | |