

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





- **1.1 Product identifier**
- Trade name:** PERGASLOW PK-40
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture**  
Inhibitor  
For industrial use
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:** PERGAN GmbH  
Hilfsstoffe für industrielle Prozesse  
Schlavenhorst 71  
D-46395 Bocholt  
Tel: +49 2871 9902-0  
Fax: +49 2871 9902-50
- **Further information obtainable from:** Environment protection / Security of labour  
Competent person:  
\* Sales Manager Germany: Mr. Ansgar Pappenheim, e-mail: a.pappenheim@pergan.com  
\* Export Sales Manager: Mr. Dr. Thomas Philipps, e-mail: dr.philipps@pergan.com  
\* Environment protection / : Mr. Christoph Wilting, e-mail: c.wilting@pergan.com  
Security of labour
- **1.4 Emergency telephone number:** - Tel: +49 2871 9902-0

## SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**

|                   |      |  |
|-------------------|------|--|
| Flam. Liq. 3      | H226 | Flammable liquid and vapour.                                       |
| Acute Tox. 4      | H332 | Harmful if inhaled.  |
| Skin Irrit. 2     | H315 | Causes skin irritation.  |
| Eye Irrit. 2      | H319 | Causes serious eye irritation.                                     |
| STOT SE 3         | H335 | May cause respiratory irritation.                                  |
| STOT RE 2         | H373 | May cause damage to organs through prolonged or repeated exposure. |
| Asp. Tox. 1       | H304 | May be fatal if swallowed and enters airways.                      |
| Aquatic Acute 1   | H400 | Very toxic to aquatic life.  |
| Aquatic Chronic 1 | H410 | Very toxic to aquatic life with long lasting effects.              |

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
- **Hazard pictograms**

|   |   |   |   |
|---|---|---|---|
|  |  |  |  |
| GHS02 GHS07 GHS08 GHS09   |   |   |   |

The product is classified and labelled according to the CLP regulation.
- **Signal word** Danger
- **Hazard-determining components of labelling:** xylene  
Butylated hydroxytoluene
- **Hazard statements**

H226 Flammable liquid and vapour.  
H332 Harmful if inhaled.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H304 May be fatal if swallowed and enters airways.  
H410 Very toxic to aquatic life with long lasting effects.
- **Precautionary statements**

|                |  |
|----------------|--|
| P210           | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.                                   |
| P243           | Take precautionary measures against static discharge.  |
| P264           | Wash thoroughly after handling.  |
| P273           | Avoid release to the environment.  |
| P301+P310      | IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  |
| P331           | Do NOT induce vomiting.  |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.                              |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P403+P235      | Store in a well-ventilated place. Keep cool.   |

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P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### · 2.3 Other hazards

#### · Results of PBT and vPvB assessment

· **PBT:** Not applicable.  
· **vPvB:** Not applicable.

## \* SECTION 3: Composition/information on ingredients

### · 3.2 Chemical characterisation: Mixtures

#### · Dangerous components:

|  |  |        |
|--|--|--------|
| CAS: 1330-20-7<br>EINECS: 215-535-7<br>Index number: 601-022-00-9<br>Reg-No.: 01-2119488216-32 | xylene<br>Consisting of: 1330-20-7 xylene; 100-41-4 ethylbenzene; 108-88-3 toluene<br>Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332;<br>Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Chronic 3, H412 | 50-60% |
| CAS: 128-37-0<br>EINECS: 204-881-4<br>Reg-No.: 01-2119555270-46                                | Butylated hydroxytoluene<br>Aquatic Acute 1, H400; Aquatic Chronic 1, H410   | 30-40% |

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

## SECTION 4: First aid measures

### · 4.1 Description of first aid measures

· **General information:** Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.



Take care of personal protection for the first aider.

· **After inhalation:** Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

Take affected persons into fresh air and keep quiet.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly. Immediately remove contaminated clothing.

· **After eye contact:** Rinse opened eye for several minutes under running water.

· **After swallowing:** If symptoms persist consult doctor.

### · 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

### · 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## SECTION 5: Firefighting measures

### · 5.1 Extinguishing media

· **Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

### · 5.2 Special hazards arising from the substance or mixture

Under certain fire conditions, traces of other toxic gases cannot be excluded.

### · 5.3 Advice for firefighters

· **Protective equipment:** Mouth respiratory protective device.

Do not inhale explosion gases or combustion gases.

· **Additional information** Cool endangered receptacles with water spray.

Self-protection first!

## SECTION 6: Accidental release measures

### · 6.1 Personal precautions, protective equipment and emergency procedures


Keep away from ignition sources.

Wear protective equipment. Keep unprotected persons away.




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- **6.2 Environmental precautions:**  Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:** Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.  
Soak up with absorbant material (e. g. Vermiculit) and dispose of in accordance with government regulations.
- **6.4 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 disposal information.  
In case of large spillage the environmental authority should be informed.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
  - Keep away from heat and direct sunlight.
  - Ensure good ventilation/exhaustion at the workplace.
  - Prevent formation of aerosols.
  - Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.
  - Use only in well ventilated areas.
  - Before break and at the end of work hands should be thoroughly washed.
  - While using do not eat, drink or smoke.
  - Do not generate flames or sparks.
  - Keep product and emptied container away from heat and sources of ignition.
  - Take precautionary measures against static discharges.
-  Do not smoke.
- **Information about fire - and explosion protection:**
  - Protect against electrostatic charges.
  - Use explosion-proof apparatus / fittings and spark-proof tools.
  - Highly volatile, flammable constituents are released during processing.
  - Fumes can combine with air to form an explosive mixture.
-  Wear shoes with conductive soles.
- Formation of flammable or explosive gas/air-mixtures is possible.
-  Avoid open flames, sparks, direct sunlight and other sources of ignition.
- Keep ignition sources away - Do not smoke.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:** Pay attention to the special requirements of your local authorities for storing dangerous goods.
- **Requirements to be met by storerooms and receptacles:**
  - Prevent any seepage into the ground.
  - Use only receptacles specifically permitted for this substance/product.
- **Information about storage in one common storage facility:** Store away from foodstuffs, drinks and feeding stuffs.
- **Further information about storage conditions:**
  - Keep container tightly sealed.
  - Store receptacle in a well ventilated area.
  - Protect from contamination.
  - Storage in a collecting room is required.
- **Recommended storage temperature (To maintain quality):** 0 .... +20 °C
- **Storage class:** 3
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

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### · 8.1 Control parameters

|  |   |
|--|---|
| <b>· Ingredients with limit values that require monitoring at the workplace:</b> |   |
| <b>1330-20-7 xylene</b>  |   |
| OEL (Ireland)  | Short-term value: 442 mg/m <sup>3</sup> , 100 ppm<br>Long-term value: 221 mg/m <sup>3</sup> , 50 ppm<br>Sk, IOELV |
| IOELV (EU)   | Short-term value: 442 mg/m <sup>3</sup> , 100 ppm<br>Long-term value: 221 mg/m <sup>3</sup> , 50 ppm<br>Skin      |
| WEL (Great Britain)  | Short-term value: 441 mg/m <sup>3</sup> , 100 ppm<br>Long-term value: 220 mg/m <sup>3</sup> , 50 ppm<br>Sk; BMGV  |
| <b>128-37-0 Butylated hydroxytoluene</b>   |   |
| OEL (Ireland)  | Long-term value: 2 mg/m <sup>3</sup>  |
| WEL (Great Britain)  | Long-term value: 10 mg/m <sup>3</sup>   |
| <b>· DNELs</b>   |   |
| <b>1330-20-7 xylene</b>  |   |
| Dermal   | DNEL Longterm System 212 mg/kg bw/day (Worker)  |
| Inhalative   | DNEL Longterm System 221 mg/m <sup>3</sup> (Worker)   |
| <b>128-37-0 Butylated hydroxytoluene</b>   |   |
| Dermal   | DNEL Longterm System 0,5 mg/kg bw/day (Worker)  |
| Inhalative   | DNEL Longterm System 3,5 mg/m <sup>3</sup> (Worker)   |
| <b>· PNECs</b>   |   |
| <b>1330-20-7 xylene</b>  |   |
| PNEC Marinewater sed   | 12,46 mg/kg sed dw  |
| PNEC Freshwater  | 0,327 mg/l (-)  |
| PNEC Freshwater sed  | 12,46 mg/kg sed dw  |
| PNEC Soil  | 2,31 mg/kg soil dw  |
| PNEC STP   | 6,58 mg/l   |
| PNEC Marinewater   | 0,327 mg/l  |
| <b>128-37-0 Butylated hydroxytoluene</b>   |   |
| PNEC Marinewater sed   | 0,00996 mg/kg sed dw (-)  |
| PNEC Freshwater  | 0,000199 mg/l (AF 1.000)  |
| PNEC Seawater  | 0,00002 mg/l (AF 10.000)  |
| PNEC Freshwater sed  | 0,0996 mg/kg sed dw (-)   |
| PNEC Soil  | 0,04769 mg/kg soil dw (-)   |
| PNEC STP   | 0,17 mg/l (-)   |
| <b>· Ingredients with biological limit values:</b>                               |   |
| <b>1330-20-7 xylene</b>  |   |
| BMGV (Great Britain)   | 650 mmol/mol creatinine<br>Medium: urine<br>Sampling time: post shift<br>Parameter: methyl hippuric acid          |

· **Additional information:** The lists valid during the making were used as basis.

### · 8.2 Exposure controls

#### · Personal protective equipment:

#### · General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid close or long term contact with the skin.  
Avoid contact with the eyes and skin.  
Do not eat, drink, smoke or sniff while working.  
Use skin protection cream for skin protection.  
Be sure to clean skin thoroughly after work and before breaks.

#### · Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.  
Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated.






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|   |   |
|---|---|
| · <b>Protection of hands:</b>               | Only use chemical-protective gloves with CE-labelling of category III.<br> Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation |
| · <b>Material of gloves</b>                 | Protective gloves<br>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.<br>Butyl rubber, BR<br>Fluorocarbon rubber (Viton)<br>Nitrile rubber, NBR<br>Neoprene      |
| · <b>Penetration time of glove material</b> | The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.  |
| · <b>Eye protection:</b>                    |  Tightly sealed goggles  |
| · <b>Body protection:</b>                   |  Protective work clothing  |

### SECTION 9: Physical and chemical properties

|   |   |
|---|---|
| · <b>9.1 Information on basic physical and chemical properties</b>        |   |
| · <b>General Information</b>  |   |
| · <b>Appearance:</b>  |   |
| · <b>Form:</b>  | Fluid   |
| · <b>Colour:</b>  | Colourless  |
| · <b>Odour:</b>   | Characteristic  |
| · <b>Odour threshold:</b>   | Not determined.   |
| · <b>pH-value:</b>  | Not determined.   |
| · <b>Change in condition</b>  |   |
| · <b>Melting point/freezing point:</b>                                    | Undetermined.   |
| · <b>Initial boiling point and boiling range:</b>                         | Not applicable.<br>Undetermined.  |
| · <b>Flash point:</b>   | 25 °C   |
| · <b>Flammability (solid, gas):</b>                                       | Not applicable.   |
| · <b>Decomposition temperature:</b>                                       | Not determined.   |
| · <b>Auto-ignition temperature:</b>                                       | Product is not selfigniting.  |
| · <b>Explosive properties:</b>  | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |
| · <b>Explosion limits:</b>  |   |
| · <b>Lower:</b>   | Not determined.   |
| · <b>Upper:</b>   | Not determined.   |
| · <b>Vapour pressure:</b>   | Not determined.   |
| · <b>Density:</b>   |   |
| · <b>Relative density</b>   | Not determined.   |
| · <b>Vapour density</b>   | Not determined.   |
| · <b>Evaporation rate</b>   | Not determined.   |
| · <b>Solubility in / Miscibility with</b>                                 |   |
| · <b>water:</b>   | Undetermined.   |
| · <b>Partition coefficient: n-octanol/water:</b> not determined           |   |
| · <b>Viscosity:</b>   |   |
| · <b>Dynamic:</b>   | Not determined.   |
| · <b>Kinematic:</b>   | Not determined.   |
| · <b>9.2 Other information</b> No further relevant information available. |   |

### SECTION 10: Stability and reactivity

|  |  |
|--|--|
| · <b>10.1 Reactivity</b>                         | No further relevant information available. |
| · <b>10.3 Possibility of hazardous reactions</b> | No dangerous reactions known.              |
| · <b>10.4 Conditions to avoid</b>                | No further relevant information available. |

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- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No hazardous decomposition products if used and stored according to specifications.
- **Additional information:** Emergency procedures will vary depending on conditions. The customer should have an emergency response plane in place.

### \* SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Harmful if inhaled.

#### · LD/LC50 values relevant for classification:

##### 1330-20-7 xylene

|        |      |                            |
|--------|------|----------------------------|
| Oral   | LD50 | 3.520 mg/kg (rattus)       |
| Dermal | LD50 | 12.126 mg/kg (cuniculosus) |

##### 128-37-0 Butylated hydroxytoluene

|        |      |                            |
|--------|------|----------------------------|
| Oral   | LD50 | >5.000 mg/kg (rattus)      |
| Dermal | LD50 | >5.000 mg/kg (cuniculosus) |

- **Primary irritant effect:**
- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** May cause respiratory irritation.
- **STOT-repeated exposure** May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard** May be fatal if swallowed and enters airways.

### SECTION 12: Ecological information

#### · 12.1 Toxicity

##### · Aquatic toxicity:

##### 128-37-0 Butylated hydroxytoluene

|            |                           |
|------------|---------------------------|
| LC0 /96h   | >0,57 mg/l (piscis)       |
| EC50 / 48h | 0,61 mg/l (daphnia magna) |
| IC50 / 72h | >0,4 mg/l (alga)          |

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

#### · 13.1 Waste treatment methods

##### · Recommendation



Must not be disposed together with household garbage. Do not allow product to reach sewage system.

##### · Waste disposal key:

Please contact your hazardous waste disposers to assign the right EWC-(European waste catalog)-number.

##### · Uncleaned packaging:

##### · Recommendation:




This material and its container must be disposed of as hazardous waste.

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**SECTION 14: Transport information**

|  |   |
|--|---|
| · 14.1 UN-Number<br>· ADR, IMDG, IATA  | UN1993  |
| · 14.2 UN proper shipping name<br>· ADR<br>· IMDG<br>· IATA  | UN1993 FLAMMABLE LIQUID, N.O.S. (XYLENES, Butylated hydroxytoluene), ENVIRONMENTALLY HAZARDOUS FLAMMABLE LIQUID, N.O.S. (XYLENES, Butylated hydroxytoluene), MARINE POLLUTANT<br>FLAMMABLE LIQUID, N.O.S. (XYLENES, Butylated hydroxytoluene) |
| · 14.3 Transport hazard class(es)<br>· ADR<br><br>· Class<br>· Label            | 3 (F1) Flammable liquids.<br>3  |
| · IMDG<br><br>· Class<br>· Label  | 3 Flammable liquids.<br>3   |
| · IATA<br><br>· Class<br>· Label  | 3 Flammable liquids.<br>3   |
| · 14.4 Packing group<br>· ADR, IMDG, IATA  | III   |
| · 14.5 Environmental hazards:<br>· Marine pollutant:<br>· Special marking (ADR):   | Product contains environmentally hazardous substances: Butylated hydroxytoluene<br>Yes<br>Symbol (fish and tree)<br>Symbol (fish and tree)  |
| · 14.6 Special precautions for user<br>· Danger code (Kemler):<br>· Stowage Category   | Warning: Flammable liquids.<br>30<br>A  |
| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code  | Not applicable.   |
| · Transport/Additional information:<br>· ADR<br>· Limited quantities (LQ)<br>· Excepted quantities (EQ)<br><br>· Transport category<br>· Tunnel restriction code | 5L<br>Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml<br>3<br>D/E  |
| · RID / GGVSEB:  | like ADR  |
| · IMDG<br>· Limited quantities (LQ)<br>· Excepted quantities (EQ)  | 5L<br>Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml  |

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**SECTION 15: Regulatory information****15.1 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.
- **Seveso category** E1 Hazardous to the Aquatic Environment  
P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
  - H226 Flammable liquid and vapour.
  - H304 May be fatal if swallowed and enters airways.
  - H312 Harmful in contact with skin.
  - H315 Causes skin irritation.
  - H319 Causes serious eye irritation.
  - H332 Harmful if inhaled.
  - H335 May cause respiratory irritation.
  - H373 May cause damage to organs through prolonged or repeated exposure.
  - H400 Very toxic to aquatic life.
  - H410 Very toxic to aquatic life with long lasting effects.
  - H412 Harmful to aquatic life with long lasting effects.
- **Department issuing SDS:** Environment protection / Security of labour
- **Contact:** Tel: +49 2871 9902-0  
E-mail: mail@pergan.com
- **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)
  - ICAO: International Civil Aviation Organisation
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - IATA: International Air Transport Association
  - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  - 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
  - Flam. Liq. 3: Flammable liquids – Category 3
  - Acute Tox. 4: Acute toxicity – Category 4
  - Skin Irrit. 2: Skin corrosion/irritation – Category 2
  - Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
  - STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
  - STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
  - Asp. Tox. 1: Aspiration hazard – Category 1
  - Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
  - Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
  - Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
- **\* Data compared to the previous version altered.**