



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

Printing date 09.09.2021

Version number 13.0 (replaces version 12.0)

Revision: 09.09.2021

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

- **1.1 Product identifier**
- **Trade name: KEIM DECOR-PAINTS-POWDER  
(DEKORFARBPULVER)**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture** Paint-powder for two componet silicate paint
- **Uses advised against** All other uses are not recommended.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
KEIM MINERAL PAINTS LTD  
Santok Building / Deer Park Way, Donnington Wood GB-Telford, Shropshire TF2 7NA  
Tel +44 1952 231 250 / Fax +44 1952 231 251  
www.keim.com / sales@keimpaints.co.uk
- **Further information obtainable from:**  
David Pratt  
Telefon: +44 1952 231250  
E-Mail: sales@keimpaints.co.uk
- **1.4 Emergency telephone number:**  
GBK GmbH Global Regulatory Compliance  
Emergency number: +49(0)6132/84463

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements**  
H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements**  
P102 Keep out of reach of children.  
P273 Avoid release to the environment.  
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

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### SECTION 3: Composition/information on ingredients

#### · 3.2 Mixtures

· **Description:** Paint powder based on silicatic and calcitic fillers as well as inorganic paint pigments

· **Dangerous components:**

CAS: 7727-43-7 EINECS: 231-784-4 Reg.nr.: 01-2119491274-35	barium sulphate, natural substance with a Community workplace exposure limit	≥5-≤15%
CAS: 1309-37-1 EINECS: 215-168-2 Reg.nr.: 01-2119457614-35- XXXX	diiron trioxide substance with a Community workplace exposure limit	0-40%
CAS: 1308-38-9 EINECS: 215-160-9 Reg.nr.: 01-2119433951-39- XXXX	dichromium trioxide substance with a Community workplace exposure limit	0-40%
CAS: 1332-58-7 EC number: 310-194-1	Kaolin substance with a Community workplace exposure limit	2.5-10%
CAS: 1314-13-2 EINECS: 215-222-5 Index number: 030-013-00-7 Reg.nr.: 01-2119463881-32- 0043	zinc oxide  Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≥0.25-<2%

· **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:**

Seek medical treatment in case of complaints.

When seeing the doctor we suggest to present this safety data sheet.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Wash off immediately with water and soap and rinse well afterwards.

If skin irritation continues, consult a doctor.

· **After eye contact:**

Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:**

Rinse mouth and throat well with water.

Do not induce vomiting; call for medical help immediately.

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

No further relevant information available.

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- **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:**  
Product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.
- **5.2 Special hazards arising from the substance or mixture**  
No further relevant information available.
- **5.3 Advice for firefighters**
- **Specila protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.  
In case of fire do not breathe smoke, fumes and vapours.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation  
Avoid formation of dust.  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Respect the protection rules (see section 7 a. 8).  
Avoid contact with skin and eyes.  
Do not inhale dust.
- **6.2 Environmental precautions:**  
Do not allow product to reach soil, sewage system or any water course.  
Follow local governmental rules and regulations.
- **6.3 Methods and material for containment and cleaning up:**  
Close drainages (risk of blocking)  
Pick up mechanically.  
Dispose of the material collected according to regulations.  
Clear contaminated areas thoroughly.
- **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.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Keep receptacles tightly sealed.  
Do not inhale dust.  
Prevent formation of dust.

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Avoid contact with skin and eyes.

See item 8 (8.2) for information about suitable protective equipment and technical precautions.

Respect the protection rules.

· **Information about fire - and explosion protection:**

The product is not flammable.

No special measures required.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store only in the original receptacle.

Keep in the original containers in a cool and dry place.

Suitable material for receptacles:

Paper

Polyethylene

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:**

Avoid dust formations and deposits.

Protect from humidity and water.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

Protect from frost.

· **Storage class:** 13

· **7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

General dust limit (Germany): Long-term value:  $1.25 \cdot 10^{-2} \text{ mg / m}^3$  (II);

\* respirable fraction \*\* inhalable fraction

The national general dust limit value must be observed.

**7727-43-7 barium sulphate, natural**

WEL Long-term value:  $10^{-4} \text{ mg/m}^3$   
\*inhalable dust \*\*respirable dust

**1309-37-1 diiron trioxide**

WEL Short-term value:  $10^{-1} \text{ mg/m}^3$   
Long-term value:  $5 \cdot 10^{-4} \text{ mg/m}^3$   
\*fume (as Fe),\*\*total respirable,\*\*\*respirable

**1308-38-9 dichromium trioxide**

WEL Long-term value:  $0.5 \text{ mg/m}^3$   
as Cr

**1332-58-7 Kaolin**

WEL Long-term value:  $2 \text{ mg/m}^3$

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· <b>DNELs</b>		
<b>7727-43-7 barium sulphate, natural</b>		
Oral	Long-term - systemic effects	13,000 mg/kg bw/day (consumer)
Inhalative	Long-term - systemic effects	10 mg/m <sup>3</sup> (worker)
	Long-term - systemic effects	10 mg/m <sup>3</sup> (consumer)
	Long-term - local effects	10 mg/m <sup>3</sup> (worker)
<b>1309-37-1 diiron trioxide</b>		
Inhalative	Long-term - local effects	10 mg/m <sup>3</sup> (worker)
<b>1308-38-9 dichromium trioxide</b>		
Inhalative	Acute - local effects	2 mg/m <sup>3</sup> (worker)
	Long-term - local effects	0.5 mg/m <sup>3</sup> (worker)
	Long-term - local effects	0.5 mg/m <sup>3</sup> (consumer)
<b>1314-13-2 zinc oxide</b>		
Oral	Long-term - systemic effects	0.83 mg/kg bw/day (consumer) (50 mg Zn/day)
Dermal	Long-term - systemic effects	83 mg/kg bw/day (worker)
	Long-term - systemic effects	83 mg/kg bw/day (consumer) (5000 mg Zn/day)
Inhalative	Long-term - systemic effects	5 mg/m <sup>3</sup> (worker)
	Long-term - systemic effects	2.5 mg/m <sup>3</sup> (consumer)
	Long-term - local effects	0.5 mg/m <sup>3</sup> (worker)

· <b>PNECs</b>	
<b>7727-43-7 barium sulphate, natural</b>	
Aquatic compartment - freshwater	0.115 mg/l (freshwater)
Aquatic compartment - sediment in freshwater	600.4 mg/kg sed dw (sediment fresh water)
Terrestrial compartment - soil	207.7 mg/kg dw (soil)
Sewage treatment plant	62.2 mg/l (sewage treatment plant) (Ba)
<b>1308-38-9 dichromium trioxide</b>	
Aquatic compartment - freshwater	0.0047 mg/l (freshwater)
Aquatic compartment - marine water	0.0047 mg/l (marine water)
Aquatic compartment - water, intermittent releases	0.0047 mg/l (not specified)
Aquatic compartment - sediment in freshwater	18.2 mg/kg sed dw (sediment fresh water)
Aquatic compartment - sediment in marine water	1.31 mg/kg sed dw (sediment marine water)
Terrestrial compartment - soil	3.2 mg/kg dw (soil)
Sewage treatment plant	10 mg/l (sewage treatment plant)
<b>1314-13-2 zinc oxide</b>	
Aquatic compartment - freshwater	0.0206 mg/l (freshwater)
Aquatic compartment - marine water	0.0061 mg/l (marine water)
Aquatic compartment - sediment in freshwater	117.8 mg/kg sed dw (sediment fresh water)
Aquatic compartment - sediment in marine water	56.5 mg/kg sed dw (sediment marine water)

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Terrestrial compartment - soil

35.6 mg/kg dw (soil)

Sewage treatment plant

0.1 mg/l (sewage treatment plant)

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

· **8.2 Exposure controls**

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Do not inhale dust / smoke / mist.

· **Respiratory protection:**

Filter: P2

In a dusty environment wear suitable facemask.

· **Hand protection** Protective gloves

· **Material of gloves**

suitable material e.g.:

Nitrile impregnated cotton-gloves

PVC or PE gloves

Recommended thickness of the material:  $\geq 0.5$  mm

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**

Value for the permeation: level  $\geq 6$  (480 min)

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye/face protection**

In a dusty environment wear protective goggles.

Tightly sealed goggles

· **Body protection:** Protective work clothing

· **Environmental exposure controls**

See Section 12 and 6.2

No further relevant information available.

### SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Physical state**

Solid

· **Colour:**

Different, according to colouring.

· **Odour:**

Odourless

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· <b>Melting point/freezing point:</b>	>1,300 °C
· <b>Boiling point or initial boiling point and boiling range</b>	Not applicable.
· <b>Flammability</b>	Product is not flammable.
· <b>Lower and upper explosion limit</b>	
· <b>Lower:</b>	Not applicable
· <b>Upper:</b>	Not applicable
· <b>Flash point:</b>	Not applicable
· <b>Auto-ignition temperature:</b>	Product is not selfigniting.
· <b>Decomposition temperature:</b>	Not determined
· <b>pH</b>	Not applicable
· <b>Viscosity:</b>	
· <b>Kinematic viscosity</b>	Not applicable
· <b>Dynamic:</b>	Not applicable
· <b>Solubility</b>	
· <b>water:</b>	Insoluble
· <b>Partition coefficient n-octanol/water (log value)</b>	Not applicable
· <b>Vapour pressure:</b>	Not applicable.
· <b>Density and/or relative density</b>	
· <b>Density at 20 °C:</b>	0.7* g/cm <sup>3</sup> Compacted density
· <b>Relative density</b>	Not determined
· <b>Vapour density</b>	Not applicable.
· <b>9.2 Other information</b>	* The values are for freshly produced material and may change with the time.
· <b>Appearance:</b>	
· <b>Form:</b>	Powder
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Ignition temperature:</b>	Not determined
· <b>Explosive properties:</b>	Product does not present an explosion hazard.
· <b>Change in condition</b>	
· <b>Softening point/range</b>	
· <b>Oxidising properties:</b>	Not applicable
· <b>Evaporation rate</b>	Not applicable.
· <b>Information with regard to physical hazard classes</b>	
· <b>Explosives</b>	Void
· <b>Flammable gases</b>	Void
· <b>Aerosols</b>	Void
· <b>Oxidising gases</b>	Void
· <b>Gases under pressure</b>	Void
· <b>Flammable liquids</b>	Void

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· <b>Flammable solids</b>	Void
· <b>Self-reactive substances and mixtures</b>	Void
· <b>Pyrophoric liquids</b>	Void
· <b>Pyrophoric solids</b>	Void
· <b>Self-heating substances and mixtures</b>	Void
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
· <b>Oxidising liquids</b>	Void
· <b>Oxidising solids</b>	Void
· <b>Organic peroxides</b>	Void
· <b>Corrosive to metals</b>	Void
· <b>Desensitised explosives</b>	Void

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** Stable under normal conditions of storage and use.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** Humidity
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
No hazardous decomposition products if stored and handled as prescribed.

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity**

- **LD/LC50 values relevant for classification:**

#### 7727-43-7 barium sulphate, natural

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
	NOAEL	>104 mg/kg (rat)

#### 1309-37-1 diiron trioxide

Oral	LD50	>5,000 mg/kg (rat)
Inhalative	LC 50/2Wochen	>210 mg/m <sup>3</sup> (rat)

#### 1308-38-9 dichromium trioxide

Oral	LD50	>15,000 mg/kg (rat) (OECD 401 Acute Oral Toxicity)
Inhalative	LC50/4 h	>5.41 mg/l (rat) (OECD 403 Acute Inhalation Toxicity)
	NOAEL	2,000 mg/kg (rat)

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**1332-58-7 Kaolin**

Oral	LD50	>2,000 mg/kg (rat) (OECD 420)
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)
Inhalative	LC50/4 h	>5.07 mg/l (rat) (OECD 436)

**1314-13-2 zinc oxide**

Oral	LD50	>5,000 mg/kg (rat)
Inhalative	LC50/4 h	>5.7 mg/l (rat)

- **Skin corrosion/irritation** Frequent persistent contact with the skin may cause skin irritation.
- **Serious eye damage/irritation** Product powder can cause temporary mechanical eye irritation.
- **during inhalation:**  
By excess of "General Threshold Limit Value for Dust" is - comparable to inert dust - a mechanical overload of respiratory tracts possible.
- **during swallowing:** Irritant effect possible
- **Other information (about experimental toxicology):**  
Experimental analysis are not available.  
The product was not tested. The statements on toxicology have been derived from the properties of the individual components.
- **Subacute to chronic toxicity:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)** Not applicable
- **11.2 Information on other hazards**

**· Endocrine disrupting properties**

None of the ingredients is listed.

**SECTION 12: Ecological information**

- **12.1 Toxicity**
- **Aquatic toxicity:**  
Harmful to aquatic organisms.  
May cause long-term adverse effects in the aquatic environment.

**7727-43-7 barium sulphate, natural**

NOEC	>1.15 mg/l /72h (algae) 622 mg/l /3h (activated sludge) >1.26 mg/l /33d (fish) 2.9 mg/l /21d (daphnia)
NOEC	211 mg/kg /28d (soil microorganisms)
EC 50/48h	14.5 mg/l (daphnia)
ErC50/72h	>1.15 mg/l (algae)
LC 50/96 h	>3.5 mg/l (fish)

**1309-37-1 diiron trioxide**

EC 50/48h	>100 mg/l (daphnia) (OECD 202)
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LC0 /96h	>50,000 mg/l (fish)
EC 10	>10,000 mg/l /3h (activated sludge)
<b>1308-38-9 dichromium trioxide</b>	
NOEC	1,000 mg/l (fish)
EC 50/3h	> 10,000 mg/l (bacteria) (ISO 8192)
LC 50/96 h (static)	>10,000 mg/l (fish) (Fischtest akut)
<b>1332-58-7 Kaolin</b>	
EC 50/48h	>1,000 mg/l (daphnia) (OECD 202)
EC 50/72 h	>1,000 mg/l (rat) (OECD 201)
LC 50/96 h	>1,000 mg/l (fish) (OECD 423)
<b>1314-13-2 zinc oxide</b>	
EC 50/48h	0.67 mg/l (daphnia)
ErC50/72h	0.21 mg/l (algae) (pH >7 - 8,5; Zn (ZnO))

- **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.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable
- **12.6 Endocrine disrupting properties**  
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Additional ecological information:**
- **AOX-indication:**  
Due to the substance of content which do not include organic jointed halogens, the product can not take influence on the AOX-load of the waste water.
- **According to the formulation contains the following heavy metals and compounds from the EU guideline NO. 2006/11/EC:**  
The product contains BaSO<sub>4</sub>, ZnS, ZnO.
- **General notes:**  
At present there are no ecotoxicological assessments.  
The statements on ecotoxicology have been derived from the properties of the individual components.  
The product does only consist of inorganic substances; the definition of ecological data like biological degradability, COD and BOD is not expedient.  
The product may not be released into the environment without control.  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed with household garbage. Do not allow product to reach sewage system.

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Disposal must be made according to official regulations.

**· European waste catalogue**

08 01 11\* waste paint and varnish containing organic solvents or other hazardous substances

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary with cleansing agents.

### SECTION 14: Transport information

· <b>14.1 UN number or ID number</b> · <b>ADR, IMDG, IATA</b>	Void
· <b>14.2 UN proper shipping name</b> · <b>ADR, IMDG, IATA</b>	Void
· <b>14.3 Transport hazard class(es)</b> · <b>ADR, IMDG, IATA</b> · <b>Class</b>	Void
· <b>14.4 Packing group</b> · <b>ADR, IMDG, IATA</b>	Void
· <b>14.5 Environmental hazards:</b> · <b>Marine pollutant:</b>	No
· <b>14.6 Special precautions for user</b>	Not applicable
· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable
· <b>Transport/Additional information:</b>	No dangerous good in sense of these transport regulations.
· <b>UN "Model Regulation":</b>	Void

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008**  
For information on labelling please refer to section 2 of this document.
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **National regulations:**
- **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

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- **Other regulations, limitations and prohibitive regulations**
- **Please note:**
  - TRGS 200 (Germany)
  - TRGS 500 (Germany)
  - TRGS 510 (Germany)
  - TRGS 900 (Germany)
- **Substances of very high concern (SVHC) according to REACH, Article 57** Not applicable
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 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**
  - H400 Very toxic to aquatic life.
  - H410 Very toxic to aquatic life with long lasting effects.
- **Department issuing SDS:** KEIMFARBEN Germany, Product safety department
- **Abbreviations and acronyms:**
  - ADR: Accord relatif au transport international 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)
  - TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)
  - 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
  - SVHC: Substances of Very High Concern
  - vPvB: very Persistent and very Bioaccumulative
  - EC10: Effective concentration at 10% mortality rate.
  - EC50: Half maximal effective concentration.
  - LC10: Lethal concentration at 10% mortality rate.
  - NOEC: No observed effect concentration.
  - REACH: Registration, Evaluation and Authorisation of Chemicals (Regulation (EC) No.1907/2006)
    - 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.**