

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.01.2024

Version number 03-04 (replaces version 03-03)

Revision: 24.01.2024

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

#### 1.1 Product identifier

Trade name: **LUCITE® 406 Flowcoat 2.0**

#### 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** Coating agent

#### Uses advised against

This product is not suitable for uses other than those specified in the "Use of the substance/mixture". If your particular manner of use is not listed, please contact the creator of this safety data sheet.

#### 1.3 Details of the supplier of the safety data sheet

**Manufacturer/Supplier:**

Dörken Coatings GmbH &amp; Co. KG

Wetterstr. 58

58313 Herdecke

Germany

www.doerkencoatings.de

Phone: +49 2330 63 243

Fax: +49 2330 63 100 243

**Further information obtainable from:** msds.coatings@doerken.de

#### 1.4 Emergency telephone number:

Emergency CONTACT (24-Hour-Number):

GBK GmbH +49 (0)6132-84463

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008**

GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

#### 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



GHS07

**Signal word** Warning**Hazard-determining components of labelling:**

2-methyl-2H-isothiazol-3-one

mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

(Contd. on page 2)

## Safety data sheet

according to 1907/2006/EC, Article 31

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Version number 03-04 (replaces version 03-03)

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**Trade name: LUCITE® 406 Flowcoat 2.0**

(Contd. of page 1)

1,2-benzisothiazol-3(2H)-one

### Hazard statements

H317 May cause an allergic skin reaction.

### Precautionary statements

P280 Wear protective gloves.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P362+P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### Additional information:

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

### 2.3 Other hazards

#### Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

**Description:** Mixture of substances listed below with nonhazardous additions.

#### Dangerous components:

CAS: 13463-67-7 EINECS: 236-675-5 Reg.nr.: 01-2119489379-17-xxxx	Titanium dioxide ----- Carc. 2, H351	10-25%
CAS: 2634-33-5 EINECS: 220-120-9 Reg.nr.: 01-2120761540-60-xxxx	1,2-benzisothiazol-3(2H)-one ----- Acute Tox. 2, H330; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317 Specific concentration limit: Skin Sens. 1; H317: C ≥0.05 %	≥0.025-<0.05%
CAS: 52-51-7 EINECS: 200-143-0 Reg.nr.: 01-2119980938-15-xxxx	2-bromo-2-nitropropane-1,3-diol ----- Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; STOT SE 3, H335	≥0-<0.025%

(Contd. on page 3)

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.01.2024

Version number 03-04 (replaces version 03-03)

Revision: 24.01.2024

Trade name: **LUCITE® 406 Flowcoat 2.0**

(Contd. of page 2)

<p>CAS: 2682-20-4 EINECS: 220-239-6 Reg.nr.: 01-2120764690-50-xxxx</p>	<p>2-methyl-2H-isothiazol-3-one Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); Skin Sens. 1A, H317, EUH071 Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.0015 %</p>	<p>≥0.0015-&lt;0.025%</p>
<p>CAS: 55965-84-9 Reg.nr.: 01-2120764691-48-xxxx</p>	<p>mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 2, H330; Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100); Skin Sens. 1A, H317, EUH071 Specific concentration limits: Skin Corr. 1C; H314: C ≥ 0.6 % Skin Irrit. 2; H315: 0.06 % ≤ C &lt; 0.6 % Eye Dam. 1; H318: C ≥ 0.6 % Eye Irrit. 2; H319: 0.06 % ≤ C &lt; 0.6 % Skin Sens. 1A; H317: C ≥ 0.0015 %</p>	<p>≥0.0015-&lt;0.0025%</p>

**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:

In all cases of doubt, or when symptoms persist, seek medical advice.

Soiled, soaked clothes immediately take off.

Never give anything by mouth to an unconscious person.

##### After inhalation:

Supply fresh air; consult doctor in case of complaints.

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

##### After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation or rash occurs: Get medical advice/attention.

Take off immediately all contaminated clothing and wash it before reuse.

##### After eye contact:

Remove contact lenses. Keep eye lids open and rinse plentifully for at least 10 minutes with clean running water. Subsequently consult an ophthalmologist.

In case of troubles or persistent symptoms, consult an ophthalmologist.

##### After swallowing:

Rinse mouth thoroughly with water.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

#### 4.2 Most important symptoms and effects, both acute and delayed Allergic reactions

(Contd. on page 4)

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.01.2024

Version number 03-04 (replaces version 03-03)

Revision: 24.01.2024

**Trade name: LUCITE® 406 Flowcoat 2.0**

(Contd. of page 3)

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

Symptomatic treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing agents:**

Extinguishing powder, foam, carbon dioxide.

Use fire extinguishing methods suitable to surrounding conditions.

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

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

Fire will produce dangerous decomposition products like dense, black smoke, carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO) and nitrogen oxides (NO<sub>x</sub>). Inhalation may cause serious health damage.

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

### 5.3 Advice for firefighters

**Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

**Additional information**

Collect contaminated fire fighting water separately. It must not enter the sewage system.

## SECTION 6: Accidental release measures

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

Wear protective equipment. Keep unprotected persons away.

Avoid contact with skin and eyes.

### 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Keep contaminated washing water and dispose of appropriately.

### 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of the material collected according to 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.

DE/EN

(Contd. on page 5)

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.01.2024

Version number 03-04 (replaces version 03-03)

Revision: 24.01.2024

Trade name: **LUCITE® 406 Flowcoat 2.0**

(Contd. of page 4)

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Avoid prolonged, intensive skin contact and contact with the eyes.

Avoid the handling of incompatible substances and mixtures. Incompatible substances: see section 10.5

**Information about fire - and explosion protection:** No special measures required.

#### 7.2 Conditions for safe storage, including any incompatibilities

##### Storage:

##### Requirements to be met by storerooms and receptacles:

Make sure spills can be contained, e.g. in sump pallets.

Protect from frost, heat and direct sunlight. Keep tightly closed, cool and dry.

##### Information about storage in one common storage facility:

Note the rules for common storage in accordance with TRGS 510 - "Storage of hazardous substances in transportable containers".

Store away from foodstuffs.

**Further information about storage conditions:** None.

**Storage class:** 12

**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:

**55965-84-9 mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)**

MAK (Germany)	Long-term value: 0.2E mg/m <sup>3</sup> vgl. Abschn. Xc
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**Additional information:** The lists valid during the making were used as basis.

**8.2 Exposure controls** Provide good ventilation and/or an exhaust system in the work area.

##### Appropriate engineering controls

Ensure a good ventilation. This can be achieved by local exhaustion or general exhaust air.

##### 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.

Immediately remove all soiled and contaminated clothing

Do not eat, drink, smoke or sniff while working.

Use skin protection cream for skin protection.

##### Respiratory protection:

Breathing protection is always required when spraying.

Use combination filter A2(-P2) according to EN 14387.

(Contd. on page 6)

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.01.2024

Version number 03-04 (replaces version 03-03)

Revision: 24.01.2024

Trade name: **LUCITE® 406 Flowcoat 2.0**

(Contd. of page 5)

### Hand protection

Work with gloves. Gloves must be inspected for damage before use. Defective or damaged gloves must not be used. Gloves must satisfy the specifications of EC directive 89/686/EWG and standard EN 374.

It is recommended to use long gloves to minimize contact by splashing.

### Material of gloves

Nitrile rubber

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

### Eye/face protection

Wear protective goggles to protect against splashing.

Have eye wash bottle or eye rinse ready at work place.

Professional Cooperative Rules - BGR 192 Use of eye and face protection

**Body protection:** Impervious protective clothing

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### General Information

<b>Physical state</b>	Fluid
<b>Colour:</b>	Different according to colouring
<b>Odour:</b>	Low odour
<b>Odour threshold:</b>	For mixtures not applicable.
<b>Melting point/Freezing point:</b>	Not security-related.
<b>Boiling point or initial boiling point and boiling range</b>	100 °C (7732-18-5 water)
<b>Flammability</b>	Not applicable.
<b>Lower and upper explosion limit</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Flash point:</b>	Not applicable.
<b>Auto-ignition temperature:</b>	Not applicable.
<b>Decomposition temperature:</b>	For mixtures not applicable.
<b>pH at 20 °C</b>	8-9.5
<b>Viscosity:</b>	Not security-related.
<b>Solubility</b>	
<b>water:</b>	Miscible / waterdilutable.
<b>polar solvents:</b>	Partly miscible.
<b>non-polar solvents:</b>	Not miscible or difficult to mix.

(Contd. on page 7)

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.01.2024

Version number 03-04 (replaces version 03-03)

Revision: 24.01.2024

Trade name: **LUCITE® 406 Flowcoat 2.0**

(Contd. of page 6)

<b>Partition coefficient n-octanol/water (log value)</b>	For mixtures not applicable.
<b>Vapour pressure at 20 °C:</b>	23 hPa (7732-18-5 water)
<b>Density and/or relative density</b>	
<b>Density at 20 °C:</b>	1.09-1.38 g/cm <sup>3</sup>
<b>Vapour density</b>	Not applicable.

### 9.2 Other information

#### Appearance:

**Form:** Fluid

#### Important information on protection of health and environment, and on safety.

**Ignition temperature:** Product is not selfigniting.

**Explosive properties:** Product does not present an explosion hazard.

#### Change in condition

#### Softening point/range

**Oxidising properties** In its condition as supplied, the product is neither flammable nor oxidising.

**Evaporation rate** Not applicable.

### Information with regard to physical hazard classes

<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
<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** Product is stable under normal storage conditions.

(Contd. on page 8)

## Safety data sheet

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Version number 03-04 (replaces version 03-03)

Revision: 24.01.2024

Trade name: **LUCITE® 406 Flowcoat 2.0**

(Contd. of page 7)

### 10.3 Possibility of hazardous reactions

No dangerous reactions known.

No dangerous reactions are known.

**10.4 Conditions to avoid** No further relevant information available.

**10.5 Incompatible materials:** strong oxidizing agents

**10.6 Hazardous decomposition products:**

In case of fire arise: smoke and carbon oxides. Under certain fire conditions tracks of other toxic products can not be excluded.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

**Acute toxicity** Based on available data, the classification criteria are not met.

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

The quoted data are literature values and/or manufacturer/supplier data.

#### Skin corrosion/irritation

May cause irritations.

Based on available data, the classification criteria are not met.

#### Serious eye damage/irritation

May cause irritations.

Based on available data, the classification criteria are not met.

**Respiratory or skin sensitisation** May cause an allergic skin reaction.

**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** Based on available data, the classification criteria are not met.

**STOT-repeated exposure** Based on available data, the classification criteria are not met.

#### Aspiration hazard

The mixture contains no or only small amounts of materials which are classified as an aspiration hazard. It can therefore be assumed that the mixture is not an aspiration hazard.

Based on available data, the classification criteria are not met.

#### Additional toxicological information:

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

The product is not classified as carcinogenic, mutagenic or toxic to reproduction (CMR properties).

### 11.2 Information on other hazards

#### Endocrine disrupting properties

540-97-6 | Dodecamethylcyclohexasiloxane

List II

DE/EN

(Contd. on page 9)



## Safety data sheet

according to 1907/2006/EC, Article 31

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Version number 03-04 (replaces version 03-03)

Revision: 24.01.2024

Trade name: **LUCITE® 406 Flowcoat 2.0**

(Contd. of page 8)

### SECTION 12: Ecological information

#### 12.1 Toxicity

**Aquatic toxicity:** There are no statements/information available of the preparation.

**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

This product does not contain relevant substances that have been assessed as persistent, bioaccumulative and toxic (PBT) or as very persistent and very bioaccumulative (vPvB).

**PBT:** Not applicable.

**vPvB:** Not applicable.

**12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.

**12.7 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. Must be specially treated adhering to official regulations.

#### European waste catalogue

08 01 12	waste paint and varnish other than those mentioned in 08 01 11
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### SECTION 14: Transport information

#### 14.1 UN number or ID number

ADR, ADN, IMDG, IATA	Void
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#### 14.2 UN proper shipping name

ADR, ADN, IMDG, IATA	Void
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#### 14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA Class	Void
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#### 14.4 Packing group

ADR, IMDG, IATA	Void
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#### 14.5 Environmental hazards:

Not applicable.
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(Contd. on page 10)

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.01.2024

Version number 03-04 (replaces version 03-03)

Revision: 24.01.2024

Trade name: **LUCITE® 406 Flowcoat 2.0**

(Contd. of page 9)

**14.6 Special precautions for user** Not applicable.

**14.7 Maritime transport in bulk according to IMO instruments** Not applicable.

**UN "Model Regulation":** Void

### 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.

**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

##### **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

##### **REGULATION (EU) 2019/1148**

##### **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

##### **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

##### **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

##### **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

##### **National regulations:**

##### **Information about limitation of use:**

Observe employment restrictions concerning young persons.

Observe employment restrictions for expectant or nursing mothers.

**Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

##### **Labelling according to Regulation (EC) No 2004/42**

VOC limit according to 2004/42/EC for category a (WB) and maximum VOC content: see lid.

**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.

The given conditions of work of the user extract themselves from our knowledge and control. The product/the preparation may be used without written permission for no other use, than the mentioned intended purpose.

(Contd. on page 11)

**Safety data sheet**

according to 1907/2006/EC, Article 31

Printing date 24.01.2024

Version number 03-04 (replaces version 03-03)

Revision: 24.01.2024

**Trade name: LUCITE® 406 Flowcoat 2.0**

(Contd. of page 10)

The user is responsible for the observance of all necessary legal instructions.

This Safety Data Sheet replaces all previous versions. With the newest version in each case, the preceding Safety Data Sheets are set out of strength.

For further information please consult the "Technical Data Sheet".  
Misuse may cause damage to health and environment.

**Labelling according to regulation (EC) No 528/2012****Additional information:**

Contains protective agent for products in storage.

Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

**Relevant phrases**

- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H310 Fatal in contact with skin.
- H311 Toxic in contact with skin.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H330 Fatal if inhaled.
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- EUH071 Corrosive to the respiratory tract.

**Classification according to Regulation (EC) No 1272/2008**

Skin sensitisation	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.
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**Date of previous version:** 23.01.2024

**Version number of previous version:** 03-03

**Abbreviations and acronyms:**

- Acute Tox. 3: Acute toxicity – Category 3
- Acute Tox. 4: Acute toxicity – Category 4
- Acute Tox. 2: Acute toxicity – Category 2
- Skin Corr. 1B: Skin corrosion/irritation – Category 1B
- Skin Corr. 1C: Skin corrosion/irritation – Category 1C
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Dam. 1: Serious eye damage/eye irritation – Category 1
- Skin Sens. 1: Skin sensitisation – Category 1
- Skin Sens. 1A: Skin sensitisation – Category 1A
- Carc. 2: Carcinogenicity – Category 2
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- 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

**\* Data compared to the previous version altered.**