

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

Printing date 08.04.2023

Version number: 1.00

Revision: 29.11.2022

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

- **1.1 Product identifier** For Industrial, professional and consumer use only
- **Trade name:** 1K DTM 30 Colours
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** Surface Coating
- **Application of the substance / the mixture** Surface Coating
- **1.3 Details of the supplier of the safety data sheet**
- **Supplier:**  
HMG PAINTS LIMITED  
Riverside Works,  
Collyhurst Road,  
Collyhurst,  
Manchester,  
M40 7RU  
UNITED KINGDOM  
TEL: +44 (0)161 205 7631  
EMAIL: sales@hmgpaint.com
- **Further information obtainable from:** sales@hmgpaint.com
- **1.4 Emergency telephone number:** +44 (0)161 205 7631 (business hours)

**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.
Skin Irrit. 2	H315 Causes skin irritation.
Eye Dam. 1	H318 Causes serious eye damage.
Skin Sens. 1	H317 May cause an allergic skin reaction.
STOT RE 2	H373 May cause damage to the hearing organs through prolonged or repeated exposure.
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 GB CLP regulation.
- **Hazard pictograms**



- **Signal word** Danger
- **Hazard-determining components of labelling:**  
isobutanol  
Xylene (mix)  
1,3-bis[12-hydroxy-octadecamide-N-methylene]-benzene  
cobalt bis(2-ethylhexanoate)
- **Hazard statements**  
H226 Flammable liquid and vapour.  
H315 Causes skin irritation.

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*H318 Causes serious eye damage.**H317 May cause an allergic skin reaction.**H373 May cause damage to the hearing organs through prolonged or repeated exposure.**H412 Harmful to aquatic life with long lasting effects.***· Precautionary statements***P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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.**P310 Immediately call a POISON CENTER/doctor.**P321 Specific treatment (see on this label).**P362+P364 Take off contaminated clothing and wash it before reuse.**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****· Description:** Mixture of substances listed below with nonhazardous additions.**· Dangerous components:**

CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32-xxxx	Xylene (mix) ⚠ Flam. Liq. 3, H226; ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Chronic 3, H412	>10-≤25%
CAS: 78-83-1 EINECS: 201-148-0 Reg.nr.: 01-2119484609-23-XXXX	isobutanol ⚠ Flam. Liq. 3, H226; ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315; STOT SE 3, H335-H336	>2.5-≤10%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	>2.5-≤10%
CAS: 100-41-4 EINECS: 202-849-4 Reg.nr.: 01-2119489370-35	ethylbenzene ⚠ Flam. Liq. 2, H225; ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H332	>1-≤2.5%
ELINCS: 423-300-7 Reg.nr.: 01-0000016979-49-xxxx	1,3-bis[12-hydroxy-octadecamide-N-methylene]-benzene ⚠ Skin Sens. 1, H317; Aquatic Chronic 4, H413	>1-≤2.5%
CAS: 7779-90-0 EINECS: 231-944-3 Reg.nr.: 01-2119485044-40-0000	trizinc bis(orthophosphate) ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≤1%
CAS: 22464-99-9 EINECS: 245-018-1 Reg.nr.: 01-2119979088-21	2-ethylhexanoic acid, zirconium salt ⚠ Repr. 2, H361d; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	≤1%

**· 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:** Immediately remove any clothing soiled by the product.**· After inhalation:**

Supply fresh air and call for a doctor.

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*In case of unconsciousness place patient stably in side position for transportation.**Supply fresh air; consult doctor in case of complaints.***· After skin contact:***Immediately wash with water and soap and rinse thoroughly. Remove contaminated clothing.**Immediately rinse with water.***· After eye contact:** *Rinse opened eye for several minutes under running water. Then consult a doctor.***· After swallowing:***Do not induce vomiting; call for medical help immediately and show safety datasheet or label.***· 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** *Treat symptomatically.***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***During heating or in case of fire poisonous gases are produced.***· 5.3 Advice for firefighters****· Protective equipment:** *Mount respiratory protective device.***SECTION 6: Accidental release measures****· 6.1 Personal precautions, protective equipment and emergency procedures***Mount respiratory protective device.**Wear protective equipment. Keep unprotected persons away.***· 6.2 Environmental precautions:***Do not allow product to reach sewage system or any water course.**Prevent seepage into sewage system, workpits and cellars.**Inform respective authorities in case of seepage into water course or sewage system.**Do not allow to enter sewers/ surface or ground water.***· 6.3 Methods and material for containment and cleaning up:***Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).**Use neutralising agent.**Dispose contaminated material as waste according to item 13.**Ensure adequate ventilation.***· 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.**Ensure good ventilation/extraction at the workplace.**Prevent formation of aerosols.**Hygiene measures:**Wash hands before breaks and at the end of workday.***· Information about fire - and explosion protection:***Keep ignition sources away - Do not smoke.**Protect against electrostatic charges.**Keep respiratory protective device available.*

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

· **Storage:**

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

Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risk of fires, all contaminated materials should be [stored in purpose-built containers or in metal containers with tight-fitting self-closing lids.] or [laid out flat in a single layer to dry] or [placed in a metal container soaked with water] or [washed out well with warm soapy water before disposal.] Contaminated materials should be removed from the workplace at the end of each working day and stored outside.

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

· **Further information about storage conditions:**

Keep receptacle tightly sealed and in a well-ventilated place.

Keep away from heat.

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

### SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

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

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

**1330-20-7 Xylene (mix)**

WEL Short-term value: 441 mg/m<sup>3</sup>, 100 ppm  
Long-term value: 220 mg/m<sup>3</sup>, 50 ppm  
Sk; BMGV

**78-83-1 isobutanol**

WEL Short-term value: 231 mg/m<sup>3</sup>, 75 ppm  
Long-term value: 154 mg/m<sup>3</sup>, 50 ppm

**108-65-6 2-methoxy-1-methylethyl acetate**

WEL Short-term value: 548 mg/m<sup>3</sup>, 100 ppm  
Long-term value: 274 mg/m<sup>3</sup>, 50 ppm  
Sk

**100-41-4 ethylbenzene**

WEL Short-term value: 552 mg/m<sup>3</sup>, 125 ppm  
Long-term value: 441 mg/m<sup>3</sup>, 100 ppm  
Sk

· **DNELs**

**1330-20-7 Xylene (mix)**

Dermal	DNEL	108 mg/day (Con)
		180 mg/day (Ind)
Inhalative	DNEL	14.8 mg/m <sup>3</sup> (Con)
		77 mg/m <sup>3</sup> (Ind)

**78-83-1 isobutanol**

Oral	DNEL	25 mg/day (Con)
Inhalative	DNEL	55 mg/m <sup>3</sup> (Con)
		310 mg/m <sup>3</sup> (Ind)

**108-65-6 2-methoxy-1-methylethyl acetate**

Oral	DNEL	1.67 mg/day (Con)
Dermal	DNEL	54.8 mg/day (Con)
		153.5 mg/day (Ind)
Inhalative	DNEL	33 mg/m <sup>3</sup> (Con)

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		275 mg/m <sup>3</sup> (Ind)
<b>7779-90-0 trizinc bis(orthophosphate)</b>		
Oral	DNEL	0.83 mg/day (Con)
Dermal	DNEL	83 mg/day (Con)
		83 mg/day (Ind)
Inhalative	DNEL	2.5 mg/m <sup>3</sup> (Con)
		5 mg/m <sup>3</sup> (Ind)
<b>22464-99-9 2-ethylhexanoic acid, zirconium salt</b>		
Oral	DNEL	4.51 mg/day (Con)
Dermal	DNEL	3.25 mg/day (Con)
		6.49 mg/day (Ind)
Inhalative	DNEL	8.13 mg/m <sup>3</sup> (Con)
		32.97 mg/m <sup>3</sup> (Ind)

· **PNECs**

CAS No. 1330-20-7 Xylene mixed isomers

- Fresh water; 0.327 mg/l
- Marine water; 0.327 mg/l
- Intermittent release; 0.327 mg/l
- STP; 6.58 mg/l
- Sediment (Freshwater); 12.46 mg/kg
- Sediment (Marinewater); 12.46 mg/kg
- Soil; 2.31 mg/kg

· **Ingredients with biological limit values:**

**1330-20-7 Xylene (mix)**

BMGV 650 mmol/mol creatinine  
 Medium: urine  
 Sampling time: post shift  
 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:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Store protective clothing separately.
- Avoid contact with the skin.
- Avoid contact with the eyes and skin.

· **Respiratory protection:** When spraying the product, use a respiratory protective device.

· **Protection of hands:**



Protective gloves

· **Eye protection:**



Tightly sealed goggles

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### SECTION 9: Physical and chemical properties

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

##### · General Information

##### · Appearance:

Form:	Liquid
Colour:	According to product specification
Odour:	Characteristic
Odour threshold:	Not determined.

· pH-value: Not determined.

##### · Change in condition

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	137-143 °C

· Flash point: 24 °C

· Flammability (solid, gas): Flammable.

· Ignition temperature: 500 °C

· Decomposition temperature: Not determined.

· Auto-ignition temperature: Product is not selfigniting.

· Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

##### · Explosion limits:

Lower:	1.1 Vol %
Upper:	7 Vol %

· Vapour pressure at 20 °C: 6.7-8.2 hPa

Density at 20 °C:	1.247 g/cm <sup>3</sup>
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.

· Solubility in / Miscibility with water: NOT MISCIBLE

· Partition coefficient: n-octanol/water: Not determined.

##### · Viscosity:

Dynamic at 20 °C:	300 mPas
Kinematic:	Not determined.

##### · Solvent content:

Organic solvents: 29.9 %

Solids content: 70.1 %

· 9.2 Other information No further relevant information available.

### SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

##### · 10.2 Chemical stability

· 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 No further relevant information available.

· 10.5 Incompatible materials: No further relevant information available.

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- **10.6 Hazardous decomposition products:**  
No dangerous decomposition products when stored and handled correctly

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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

**1330-20-7 Xylene (mix)**

Oral	LD50	5,000 mg/kg (Rat)
Dermal	LD50	2,000 mg/kg (rbt)
Inhalative	LC50/4 h	11 mg/l (Rat)

**78-83-1 isobutanol**

Oral	LD50	>2,000 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rab)

**108-65-6 2-methoxy-1-methylethyl acetate**

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	5,000 mg/kg (Rat)
Inhalative	LC50/4 h	>10.8 mg/l (Rat)

**100-41-4 ethylbenzene**

Oral	LD50	3,500 mg/kg (rat)
Dermal	LD50	17,800 mg/kg (rbt)

**1,3-bis[12-hydroxy-octadecamide-N-methylene]-benzene**

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rab)
Inhalative	LC50/4 h	>5 mg/l (rat)

**7779-90-0 trizinc bis(orthophosphate)**

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	>5.7 mg/l (Rat)

**22464-99-9 2-ethylhexanoic acid, zirconium salt**

Oral	LD50	2,043 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	>5 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye damage.
- **Respiratory or skin sensitisation**  
May cause an allergic skin reaction.
- **Additional toxicological information:**
- **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** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure**  
May cause damage to the hearing organs through prolonged or repeated exposure.

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


### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **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.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **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.  
 Must not reach sewage water or drainage ditch undiluted or unneutralised.  
 Danger to drinking water if even small quantities leak into the ground.  
 Harmful to aquatic organisms
- **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.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>· <b>14.1 UN-Number</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>  | UN1263   |
| <ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG, IATA</b></li> </ul>                 | 1263 PAINT RELATED MATERIAL<br>PAINT RELATED MATERIAL  |
| <ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>                               | <div style="text-align: center;">  </div> |
| <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>   | 3 Flammable liquids.<br>3  |
| <ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>  | III  |
| <ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> </ul>   | Not applicable.  |
| <ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> <li>· <b>Hazard identification number (Kemler code):</b></li> </ul> | Warning: Flammable liquids.<br>30  |

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· <b>EMS Number:</b>	<i>F-E,S-E</i>
· <b>Stowage Category</b>	<i>A</i>
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	<i>Not applicable.</i>
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	<i>5L</i>
· <b>Excepted quantities (EQ)</b>	<i>Code: E1</i> <i>Maximum net quantity per inner packaging: 30 ml</i> <i>Maximum net quantity per outer packaging: 1000 ml</i>
· <b>Transport category</b>	<i>3</i>
· <b>Tunnel restriction code</b>	<i>D/E</i>
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	<i>5L</i>
· <b>Excepted quantities (EQ)</b>	<i>Code: E1</i> <i>Maximum net quantity per inner packaging: 30 ml</i> <i>Maximum net quantity per outer packaging: 1000 ml</i>
· <b>UN "Model Regulation":</b>	<i>UN 1263 PAINT RELATED MATERIAL, 3, III</i>

### 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 P5c FLAMMABLE LIQUIDS**
  - **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t
  - **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t
  - **National regulations:**
  - **Technical instructions (air):**
- | Class | Share in % |
|-------|------------|
| NK    | 29.9       |
- **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
  - **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.

- **Full text of H-Statements referred to under sections 2 and 3:**
- H225 Highly flammable liquid and vapour.*
- H226 Flammable liquid and vapour.*
- H304 May be fatal if swallowed and enters airways.*
- H312 Harmful in contact with skin.*
- H315 Causes skin irritation.*
- H317 May cause an allergic skin reaction.*
- H318 Causes serious eye damage.*
- H319 Causes serious eye irritation.*
- H332 Harmful if inhaled.*
- H335 May cause respiratory irritation.*
- H336 May cause drowsiness or dizziness.*
- H361d Suspected of damaging the unborn child.*

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*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.**H413 May cause long lasting harmful effects to aquatic life.*· **Department issuing SDS:** Product safety department: **LABORATORY**· **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)**DNEL: Derived No-Effect Level (UK REACH)**PNEC: Predicted No-Effect Concentration (UK REACH)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**Flam. Liq. 2: Flammable liquids – Category 2**Flam. Liq. 3: Flammable liquids – Category 3**Acute Tox. 4: Acute toxicity – Category 4**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**Repr. 2: Reproductive toxicity – 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**Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4*