













#### MATERIAL SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

Printing date 13.05.2021 Revision: 13.05.2025

# **SECTION 1:** IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING



- 1.1 Product identifier For Industrial, professional and consumer only
- Trade name: Zebra-Coat Thinner 2661
- Article number: 9018
- 1.2 Relevant identified uses of the substance or mixture and uses advised against Surface Coating
- Application of the substance / the mixture Surface coating Thinner
- · 1.3 Details of the supplier of the safety data sheet
- Supplier:
   ZebraCoat
   Unit 6 & 8
   Britannia Park Industrial Estate
   North Road

Cobridge

- ST6 2PZ
   Further information obtainable from:
- info@zebracoat.co.uk
   1.4 Emergency telephone number: +44 (0)1782 209527

### **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 SE 3

H373 May cause damage to the hearing organs through prolonged or repeated exposure.

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 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



GHSO2



GHSO5



GHSO7



GHSO8

• **Signal word** Danger

· Hazard-determining components of labelling:

Toluene cyclohexanone Xylene (mix) ethylbenzene

· Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H336 May cause drowsiness or dizziness.

H373 May cause damage to the hearing organs through prolonged or repeated exposure.

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H304 May be fatal if swallowed and enters airways H412 Harmful to aquatic life with long lasting effects.

# Precautionary statements

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P321 Specific treatment (see on this label).

P331 Do NOT induce vomiting.

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.
P362+P364 Take off contaminated clothing and wash it before reuse.
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:** 108-88-3 Toluene.
- vPvB: 108-88-3 Toluene.

# **SECTION 3:**COMPOSITION/INFORMATION ON INGREDIENTS



- · 3.2 Chemical characterisation: Mixtures
- Description: Mixture of substances listed below withnon hazardous additions.

Dangerous components:		
CAS: 108-88-3 EINECS: 203-625-9 Reg.nr.: 01-2119471310-51-xxxx	Toluene ◈ Flam. Liq. 2, H225; ◈ Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; ◈ Skin Irrit. 2, H315; STOT SE 3, H336; Aquatic Chronic 3, H412 PBT; vPvB	>50-≤100%
CAS: 108-94-1 EINECS: 203-631-1 Reg.nr.: 01-2119453616-35-XXXX	cyclohexanone ♦ Flam. Liq. 3, H226; ♦ Eye Dam. 1, H318; ♦ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332;	>10-≤25%
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29-XXXX	Butyl ethanoate ◈ Flam. Liq. 3, H226; ◈ STOT SE 3, H336	>2.5-≤10%
CAS: 78-93-3 EINECS: 201-159-0 Reg.nr.: 01-2119457290-43	methyl ethyl ketone ◈ Flam. Liq. 2, H225; ❖ Eye Irrit. 2, H319; STOT SE 3, H336	>2.5-≤10%
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49-xxxx	propan-2-one ◈ Flam. Liq. 2, H225; ◈ Eye Irrit. 2, H319; STOT SE 3, H336	>2.5-≤10%
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	>2.5-≤10%

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



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# **SECTION 4:** FIRST AID MEASURES



- 4.1 Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- After inhalation: 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 cute 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: CO2, 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). 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.



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# **SECTION 7:** HANDLING AND STORAGE



#### 7.1 Precautions for safe handling

Keep receptacles tightly sealed. Ensure good ventilation/extraction at the workplace. Open and handle receptacle with care. 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.
- 7.2 Conditions for safe storage, including any incompatibilities

- Storage:
- · Requirements to be met by storerooms and receptacles: Store in a cool location.
- 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. Store in cool, dry conditions in well sealed receptacles.
- 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.

Ingredie	nts with limit values that require monitoring at the workplace:
108-88-3	3 Toluene
WEL	Short-term value: 384 mg/m³, 100 ppm Long-term value: 191 mg/m³, 50 ppm Sk
108-94-	Cyclohexanone
WEL	Short-term value: 82 mg/m³, 20 ppm Long-term value: 41 mg/m³, 10 ppm Sk, BMGV
123-86-4	1 Butyl ethanoate
WEL	Short-term value: 966 mg/m³, 200 ppm Long-term value: 724 mg/m³, 150 ppm
78-93-3	methyl ethyl ketone
WEL	Short-term value: 899 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm Sk, BMGV
67-64-1	propan-2-one
OEL	Short-term value: 3620 mg/m³, 1500 ppm Long-term value: 1210 mg/m³, 500 ppm

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Xylene (	(mix)	
Long-t	rerm value: 220 mg/m³, 50 ppm	
oluene		
DNEL DNEL	8.13 mg/day (Con) 226 mg/day (Con) 384 mg/day (Ind)	
DNEL	56.5 mg/m³ (Con) 192 mg/m³ (Ind)	
yclohex	anone	
Butyl eth	nanoate	
DNEL DNEL	6 mg/day (Con) 11 mg/day (Ind) 35.7 mg/m³ (Con)	
athyl atl		
DNEL DNEL	31 mg/day (Con) 412 mg/day (Con) 1,161 mg/day (Ind) 106 mg/m³ (Con)	
opan-2-		
DNEL DNEL	62 mg/day (Con) 62 mg/day (Con) 186 mg/day (Ind)	
DNEL	200 mg/m³ (Con) 1,210 mg/m³ (Ind)	
Xylene	(mix)	
DNEL	108 mg/day (Con) 180 mg/day (Ind) 14.8 mg/m³ (Con) 77 mg/m³ (Ind)	
	Short- Long-t Sk; BM  oluene  DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNE	DNEL   8.13 mg/day (Con)   226 mg/day (Con)   384 mg/day (Ind)   56.5 mg/m³ (Con)   192 mg/m³ (Ind)   56.5 m

#### 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

CAS No. 123-86-4 Butyl Acetate

Freshwater: 0.18 mg/l Marine water: 0.018 mg/l

Fresh water sediment: 0.981 mg/kg Marine sediment: 0.0981 mg/kg

Soil: 0.0903 mg/kg

STP (sewage-treatment plant): 35.6 mg/l Intermittent use/release: 0.36 mg/l

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# **TRADE NAME: ZEBRA-COAT THINNER 2661**

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• Ingred	lients with biological limit values:
108-94-1	cyclohexanone
BMGV	2 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: cyclohexanol
78-93-3 ı	nethyl ethyl ketone
BMGV	70 µmol/L Medium: urine Sampling time: post shift Parameter: butan-2-one
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 eyes

Avoid contact with the eyes and skin.

- Respiratory protection: When spraying the product, use a respiratory protective device.
- Protection of hands: When skin exposure may occur, advice should be sought from the glove supplier
  on appropriate types and usage times for this product.



Protective gloves

• Eye protection:



Tightly sealed goggles

# **SECTION 9:**

#### PHYSICAL AND CHEMICAL PROPERTIES



- 9.1 Information on basic physical and chemical properties
- General Information
- Appearance:

Form: Liquid
Colour: Clear

Odour: Characteristic

Odour threshold: Not determined.

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# **TRADE NAME: ZEBRA-COAT THINNER 2661**

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• pH-value:	Not determined.	
Change in condition		
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling range:	110-111 ℃	
• Flash point:	4 °C	
<ul> <li>Flammability (solid, gas):</li> </ul>	Not applicable.	
Ignition temperature:	415 °C	
Decomposition temperature:	Not determined.	
<ul> <li>Auto-ignition temperature:</li> </ul>	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:	9.5 Vol %	
• Vapour pressure at 20 °C:	29 hPa	
• Density at 20 °C:	0.84 g/cm³	
Relative density	Not determined.	
Vapour density	Not determined.	
Evaporation rate	Not determined.	
<ul> <li>Solubility in / Miscibility with water:</li> </ul>	NOT MISCIBLE	
Partition coefficient: n-octanol/water:	Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic at 20 °C:	15 s (DIN 53211/4)	
Solvent content:		
Organic solvents:	70.0 %	
Solids content:	30.0 %	
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.
- 10.6 Hazardous decomposition products: No dangerous decomposition products when stored and handled correctly.



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#### **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:			
108-88-3 Toluene			
Oral Dermal Inhalative	LD50 LD50 LC50/4 h	636 mg/kg (Rat) 5,000 mg/kg (Rab) 20 mg/l (Rat)	
108-94-1 c	yclohexano	ne	
Oral Dermal Inhalative	LD50 LD50 LC50/4 h	1,620 mg/kg (rat) 764 mg/kg (rat) 6.2 mg/l (rat)	
123-86-4 E	utyl ethano	ate	
Oral Dermal Inhalative	LD50 LD50 LC50/4 h	10,760 mg/kg (rat) 14,112 mg/kg (Rab) 23.4 mg/l (Rat)	
78-93-3 m	78-93-3 methyl ethyl ketone		
Oral Dermal	LD50 LD50	3,460 mg/kg (Rat) 5,000 mg/kg (Rab)	
67-64-1 pr	67-64-1 propan-2-one		
Oral Dermal Inhalative	LD50 LD50 LC50/4 h	5,800 mg/kg (Rat) 15,800 mg/kg (Rat) 76 mg/l (Rat)	
1330-20-7 Xylene (mix)			
Oral Dermal Inhalative	LD50 LD50 LC50/4 h	5,000 mg/kg (Rat) 2,000 mg/kg (rbt) 11 mg/l (Rat)	

- Primary irritant effect:
- Skin corrosion/irritation

Causes skin irritation.

• Serious eye damage/irritation

Causes serious eye damage.

• Respiratory or skin sensitisation

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

- · CMR effects (carcinogenity, 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

Suspected of damaging the unborn child.

• STOT-single exposure

May cause drowsiness or dizziness.

• STOT-repeated exposure

May cause damage to the hearing organs through prolonged or repeated exposure.

Aspiration hazard

May be fatal if swallowed and enters airways.



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# **SECTION 12:** ECOLOGICAL INFORMATION



- 12.1 Toxicity
- Aquatic toxicity:

Acute Fish toxicity n-Butyl acetate LC50 18 mg/l

Species: Pimephales promelas (fathead minnow)

Exposure duration: 96 h

Chronic Fish toxicity n-Butyl acetate No data available.

Acute toxicity for daphnia

n-Butyl acetate EC50 44 mg/l

Species: Daphnia (water flea) Exposure duration: 48 h

Chronic toxicity to daphnia

n-Butyl acetate NOEC 23 mg/l

Species: Daphnia magna (Water flea)

Exposure duration: 21 d

Method: OECD Test Guideline 211

Acute toxicity for algae n-Butyl acetate EC50 675 mg/l Species: Scenedesmus quadricauda (Green algae)

Exposure duration: 72 h

Acute bacterial toxicity EC50 356 mg/l

Species: activated sludge Exposure duration: 40 h

- 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.
- Ecotoxical 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:

108-88-3 Toluene

vPvB:

108-88-3 Toluene

• 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.



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#### **SECTION 14:**

# TRANSPORT INFORMATION



•	14.1 UN-Number	
•	ADR, IMDG, IATA	UN1263

• 14.2 UN proper shipping name

• ADR 1263 PAINT RELATED MATERIAL (vapour pressure at 50°C not more than 110 kPa)

• IMDG, IATA PAINT RELATED MATERIAL

• 14.3 Transport hazard class(es)

ADR, IMDG, IATA



Class 3 Flammable liquids.

Label

• 14.4 Packing group

· ADR, IMDG, IATA |||

• 14.5 Environmental hazards: Not applicable

• Marine pollutant:

Warning: Flammable liquids. • 14.6 Special precautions for user

• Hazard identification number (Kemler code): 33 · EMS Number: F-E,S-E В • Stowage Category

• 14.7 Transport in bulk according to

Annex II of Marpol and the IBC Code Not applicable.

• Transport/Additional information:

• ADR

· Limited quantities (LQ) 5L • Excepted quantities (EQ)

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

· Transport category 2 · Tunnel restriction code D/E

IMDG

· Limited quantities (LQ) 5L Code: E2 • Excepted quantities (EQ)

> Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

• UN "Model Regulation": UN 1263 PAINT RELATED MATERIAL

(VAPOUR PRESSURE AT 50°C NOT MORE THAN 110 KPA), 3, II



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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 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
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 48
- National regulations:
- Technical instructions (air):

Class	Share in %
NK	70.0

- Waterhazard class: Water hazard class 3 (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.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

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.

H373 May cause damage to organs through prolonged or repeated exposure.

 $\ensuremath{\mathsf{H412}}$  Harmful to a quatic life with long lasting effects.

- Department issuing SDS: Product safety department: LABORATORY
- Contact: Health & Safety Officer
- 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



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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. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity - oral – 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

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 Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

