LAVA 20 CATALYST
Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its Amendment Regulation (EC) No. 1272/2008 (CLP) and EU 2020/878

Printing Date 14. 12. 2023 **Version Number 5 (replaces version 4)** **Revision: 14. 12. 2023**

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

1.1 Product identifier

Trade name: LAVA 20 CATALYST

1.2 Relevant identified uses of the substance or mixture and uses advised against Professional use

Application of the substance / the mixture: Accelerating Additive

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:
OWL WATERPROOFING SOLUTIONS
135 Slaney Road, Dublin Industrial Estate
Glasnevin, Dublin 11
Tel: +353 01 830 2250
Email: info@owlwaterproofing.co.uk
Website: www.owlwaterproofing.co.uk

1.4 Emergency telephone number:

European Emergency Tel.: +353 01 830 2250

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation EC No 1272/2008 CLP:

GHS02 flame 

Flam. Liq. 3 H226 Flammable liquid and vapour.

GHS08 health hazard 

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.

GHS07 

Acute Tox. 4 H312 Harmful in contact with skin.
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.

GHS09 environment 

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation EC No 1272/2008 CLP:

The product is classified and labelled according to the CLP regulation.

Hazard pictograms:

GHS02 GHS07 GHS08 GHS09

Signal word: Danger

Hazard-determining components of labelling:

Reaction mass of ethylbenzene and m-xylene and p-xylene

diethylmethylbenzenediamine

Hazard statements:

H226 Flammable liquid and vapour.

H312+H332 Harmful in contact with skin or 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.

H411 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.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

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

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

2.3 Other hazards

Results of PBT and vPvB assessment

The product does not include any substances identified as persistent, bioaccumulative, and toxic (PBT) or as very persistent and very bioaccumulative (vPvB) at concentrations equal to or above 0.1%.

PBT: Not applicable.

vPvB: Not applicable.

Assessment of Endocrine-Disrupting Properties

The product does not contain substances listed under Article 59(1) of REACH for endocrine-disrupting effects, nor has it been identified as having endocrine-disrupting properties based on the criteria specified in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at concentrations of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture: consisting of the following components.

Ingredients according Regulation (EU) 2020/878:

EC number: 905-562-9 Reg.nr.: 01-2119488216-32-XXXX	Reaction mass of ethylbenzene and m-xylene and p-xylene 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 Specific concentration limit: STOT RE 2; H373: C ≥ 10 %	>50-<90%
CAS: 68479-98-1 EINECS: 270-877-4 Index number: 612-130-00-0 Reg.nr.: 01-2119486805-25-XXXX	diethylmethylbenzenediamine STOT RE 2, H373; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Acute Tox. 4, H312; Eye Irrit. 2, H319	≥10-<25%

Substances of Very High Concern (SVHC)

This product does not contain any candidate substances classified as very high concern (SVHC) at concentrations of 0.1% or more, as per Regulation (EC) No 1907/2006 (REACH), Article 59.

Additional information: Refer to section 16 for the wording of the listed hazard phrases.

SECTION 4: First aid measures

4.1 Description of First Aid Measures

General Information:

Move the affected person to fresh air immediately.

Seek prompt medical assistance.

After Inhalation:

Ensure access to fresh air; seek medical attention.

If the person is unconscious, place them in a stable side position for transport.

Obtain medical care if symptoms persist.

After Skin Contact:
Wash thoroughly with water and soap, then rinse well.
If irritation persists, consult a healthcare professional.
After Eye Contact:
Rinse eyes immediately with plenty of water, lifting both upper and lower eyelids.
Remove contact lenses if present and continue rinsing for at least 15 minutes.
Seek medical attention if irritation develops.
After Swallowing:
Do not induce vomiting; seek medical assistance immediately.
Drink plenty of water and get fresh air. Call for medical help right away.
Never give anything orally to an unconscious person.
4.2 Most Important Symptoms and Effects, Both Acute and Delayed
No additional relevant information available.
4.3 Indication of Immediate Medical Attention and Special Treatment Needed
No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing Media
Suitable Extinguishing Agents: CO2, dry powder, or water spray.
Unsuitable Extinguishing Agents: Avoid using water with a full jet for safety reasons.
5.2 Special Hazards Arising from the Substance or Mixture
Potential release of carbon dioxide (CO2) and carbon monoxide (CO).
5.3 Advice for Firefighters
Protective Equipment:
Use a mouth respiratory protective device.
Wear a fully protective suit.
Additional Information:
Collect contaminated firefighting water separately; it must not be allowed to enter the sewage system.

SECTION 6: Accidental release measures

6.1 Personal Precautions, Protective Equipment, and Emergency Procedures
Wear appropriate protective equipment and keep unprotected individuals away.
Avoid inhaling vapors
Prevent contact with skin and eyes.
Wear protective clothing and keep away from ignition sources.
6.1.1 For Non-Emergency Personnel Avoid contact with leaking or dripping material.
6.1.2 For Emergency Responders First-aid responders should wear protective clothing, gloves, goggles, and a respiratory device with filter type A.
6.2 Environmental Precautions
Prevent the material from penetrating the ground or soil.
Avoid releasing it into sewers, surface water, or groundwater.

6.3 Methods and Material for Containment and Cleaning Up: Use absorbent materials such as sand or diatomite to collect the spill.

6.4 Reference to Other Sections

Refer to Section 7 for safe handling information.
Refer to Section 8 for details on personal protective equipment.
Refer to Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for Safe Handling

Ensure adequate ventilation or exhaust at the workplace.
Avoid direct contact with skin and eyes.
Do not eat, drink, or smoke while handling this product.
Wash contaminated clothing before wearing it again.
Thoroughly wash hands after use.

Information About Fire and Explosion Protection:

Keep away from ignition sources; smoking is prohibited.
Take measures to prevent electrostatic charges.


7.2 Conditions for Safe Storage, Including Any Incompatibilities

Storage: Store in well-sealed containers in well-ventilated, cool areas.

Requirements for Storerooms and Containers:

Maintain a cool storage environment.
Prevent seepage into the ground.

Information About Common Storage Facilities: Keep separate from oxidizing agents.

Additional Storage Conditions:

Ensure containers are tightly sealed.
Protect from heat and direct sunlight.

7.3 Specific End Use(s) No additional relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Ingredients with Limit Values Requiring Monitoring at the Workplace:

The product does not contain significant quantities of substances with critical values that need monitoring.

DNELs:

(EC: 905-562-9) Reaction mass of ethylbenzene, m-xylene, and p-xylene

Workers:

Long-term systemic effect (Inhalation): 77 mg/m³
Long-term systemic effect (Dermal): 180 mg/kg bw/day
Short-term systemic effect (Inhalation): 442 mg/m³

Consumers:

Long-term systemic effect (Oral): 1.6 mg/kg bw/day
Long-term systemic effect (Inhalation): 15 mg/m³
Long-term systemic effect (Dermal): 125 mg/kg bw/day
Short-term systemic effect (Inhalation): 260 mg/m³

PNECs:
(EC: 905-562-9) Reaction mass of ethylbenzene, m-xylene, and p-xylene
Freshwater: 0.044 mg/l
Marine water: 0.004 mg/l
Freshwater sediment: 2.52 mg/kg
Marine water sediment: 0.252 mg/kg
Soil: 0.852 mg/kg
STP (Wastewater Treatment Plant): 1.6 mg/l

8.2 Exposure Controls

8.2.1 Appropriate Engineering Controls Ensure sufficient ventilation at the workplace.

Individual Protection Measures (Personal Protective Equipment):

General Protective and Hygienic Measures:
Keep away from food, beverages, and animal feed.
Wash hands before breaks and after finishing work.
Avoid inhaling vapors or mists.
Do not eat, drink, or smoke while handling the product.
Prevent contact with skin and eyes.
Remove and clean contaminated clothing before reusing

Respiratory Protection:

Use an appropriate respiratory device if ventilation is inadequate. Respiratory protection is essential in poorly ventilated areas and during spraying. An air-fed mask is recommended, or for short-term tasks, a combination of a charcoal filter and particulate filter A2-P2 (EN529) can be used.

Hand Protection:

Wear chemical-resistant protective gloves (compliant with EN 374-1 standards).
The gloves must be impermeable and resistant to the substances in the product. Choose the glove material based on penetration times, diffusion rates, and degradation properties.

Glove Materials:
For handling the product at room temperature:
Butyl rubber (IIR): thickness ≥0.5 mm; breakthrough time ≥480 minutes.
Fluorinated rubber (FKM): thickness ≥0.4 mm; breakthrough time ≥480 minutes.
Recommendation: dispose of contaminated gloves.
Selecting appropriate gloves depends not only on the material but also on additional quality indicators, which can vary between manufacturers. Since the product is a mixture, glove resistance must be tested before use.

Penetration Time of Glove Material:
≥480 minutes. The specified penetration times according to EN 16523-1:2015 are not based on practical use. Thus, a maximum wear time of 50% of the penetration time is recommended.

Eye/Face Protection:

Use safety glasses with side shields (frame goggles) compliant with EN 166.

Body Protection:

Wear chemically resistant protective clothing (EN 14605) and boots.

Environmental Exposure Controls:
Prevent the product from entering drains, surface water, groundwater, and soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical State	Liquid
Colour	Not determined
Odour	Not determined
Odour threshold:	Not determined
Melting point/freezing point:	Not determined
Flammability	Not applicable
Lower and upper explosion limit **Lower:** **Upper:**	 Not determined Not determined
Flash point:	27 °C (Reaction mass of ethylbenzene and m-xylene and p-xylene)

Auto-ignition temperature:	480 °C
Decomposition temperature:	Not determined
pH	Not determined
Viscosity: **Kinematic viscosity**	Not determined
Dynamic	Not determined
Solubility: **Water**	Not miscible
Partition coefficient n-octanol/water (log value)	Not determined
Vapour pressure:	Not determined
Density and/or relative density **Density at 20 °C:**	0.91 g/cm³
Relative density	Not determined
Vapour density	Not determined
9.2 Other information **Appearance:**	
Form	Liquid
Important information on protection of health and environment, and on safety	
Ignition temperature:	Product is not selfigniting.

Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Solvent content	
VOC (EC)	<680 g/l
Drip point	
Oxidising properties	Not classified as an oxidizer according to CLP Regulation 1272/2008/EC.
Evaporation rate	Not determined
Information with regard to physical hazard classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Flammable liquid and vapour.
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void

Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

10.1 Reactivity No additional relevant information available.

10.2 Chemical Stability

The product is stable under normal environmental temperatures; no thermal decomposition is expected.

10.3 Possibility of Hazardous Reactions No known dangerous reactions.

10.4 Conditions to Avoid Avoid exposure to heat, sparks, open flames, or other ignition sources.

10.5 Incompatible Materials Keep away from oxidizing agents.

10.6 Hazardous Decomposition Products

May produce carbon dioxide (CO2) and carbon monoxide (CO).

SECTION 11: Toxicological information

11.1 Information on Hazard Classes as Defined in Regulation (EC) No 1272/2008

Acute Toxicity: Harmful if it comes into contact with the skin or if inhaled.

LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral	**LD50**	**2,954 mg/kg (rat)**
Dermal	**LD50**	**1,101 mg/kg**
Inhalative	**LC50/4 h (vapour)**	**14.7 mg/l**

Reaction mass of ethylbenzene and m-xylene and p-xylene

Oral	**LD50**	**>3,523 mg/kg (rat)**
Dermal	**LD50**	**>12,126 mg/kg (rabbit)**
Inhalative	**LC50/4 h (vapour)**	**>27 mg/l (rat)**

CAS: 68479-98-1 diethylmethylbenzenediamine

Oral	**LD50**	**738 mg/kg (rat)**
Dermal	**LD50**	**>2,000 mg/kg (rat)**

Skin Corrosion/Irritation: Causes irritation to the skin.
Serious Eye Damage/Irritation: Causes significant eye irritation.
Respiratory or Skin Sensitisation: Available data does not meet the criteria for classification.
Germ Cell Mutagenicity: Based on the available data, it does not meet the classification criteria.
Carcinogenicity: The product does not meet the classification criteria based on current data.
Reproductive Toxicity: Available data does not indicate a need for classification.
STOT - Single Exposure:
Classified as Specific Target Organ Toxicity (Category 3) following a single exposure.
May cause irritation to the respiratory system.
STOT - Repeated Exposure:
Classified as Specific Target Organ Toxicity (Category 2) due to prolonged or repeated exposure.
May cause damage to organs over time.
Aspiration Hazard:
Classified under Aspiration Toxicity (Category 1).
May be fatal if swallowed and enters the respiratory tract.
11.2 Information on Other Hazards
Endocrine Disrupting Properties:
The product does not contain substances listed under Article 59(1) of REACH for endocrine-disrupting properties, nor has it been identified as having such properties according to the criteria defined in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at concentrations of 0.1% or more.
None of the ingredients are listed as endocrine disruptors.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Reaction mass of ethylbenzene and m-xylene and p-xylene

EC50 (72h)	**4.6-4.9 mg/l (algae)**
EC50 (48h)	**10.389 mg/l (Daphnia magna)**
LC50 (96h)	**>2.6 mg/l (fish)**

CAS: 68479-98-1 diethylmethylbenzenediamine

EC50 (48h)	**0.5 mg/l (daphnia magna)**

12.2 Persistence and Degradability No additional relevant information available.

12.3 Bioaccumulative Potential No additional relevant information available.

12.4 Mobility in Soil No additional relevant information available.

12.5 Results of PBT and vPvB Assessment

The product does not contain ingredients classified as persistent, bioaccumulative, and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at concentrations of 0.1% or higher, as per REACH Annex XIII.

PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine Disrupting Properties

The product does not include substances listed under Article 59(1) of REACH for endocrine-disrupting properties, nor has it been identified as having such properties based on the criteria in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at concentrations of 0.1% or more.

12.7 Other Adverse Effects

Remark: Toxic to fish.

Ecological Information:

Notes: Classified as water hazard class 1 (German Regulation) based on self-assessment: slightly hazardous to water. Also toxic to fish and plankton in aquatic environments.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Dispose of the product in accordance with national regulations.

Do not dispose of with household waste.

Ensure the product does not enter the sewage system.

Contact the manufacturer for information on recycling options.

Refer to the European Waste Catalogue for proper waste classification and disposal.

HP3	**Flammable**
HP4	**Irritant - skin irritation and eye damage**
HP5	**Specific Target Organ Toxicity (STOT)/Aspiration Toxicity**
HP6	**Acute Toxicity**
HP14	**Ecotoxic**

Uncleaned Packaging:

Recommendation: Dispose of packaging in accordance with official regulations.

SECTION 14: Transport information

14.1 UN number or ID number **ADR, IMDG, IATA**	**UN1866**
14.2 UN proper shipping name **ADR** **IMDG** **IATA**	 **1866 RESIN SOLUTION, ENVIRONMENTALLY HAZARDOUS** **RESIN SOLUTION (diethylmethylbenzenediamine), MARINE POLLUTANT** **RESIN SOLUTION**
14.3 Transport hazard class(es) **ADR, IMDG**  **Class** **Label**	 **3 Flammable liquids.** **3**

IATA  **Class** **Label**	 **3 Flammable liquids.** **3**
14.4 Packing group **ADR, IMDG, IATA**	III
14.5 Environmental hazards:	**Environmental Hazardous. Product contains environmentally hazardous substances: diethylmethylbenzenediamine**
Marine pollutant:	**Yes. Symbol (fish and tree)**
Special marking (ADR):	**Symbol (fish and tree)**
14.6 Special precautions for user	**Warning: Flammable liquids.**
Hazard identification number (Kemler code):	**36**
EMS Number:	**F-E,S-E**
Stowage Category	**A**
14.7 Maritime Transport in bulk according to IMO instruments	**Not applicable.**
Transport/Additional information:	
ADR **Limited quantities (LQ)** **Excepted quantities (EQ)**	**5L** **Code: E1** **Maximum net quantity per inner packaging: 30 ml** **Maximum net quantity per outer packaging: 1000 ml**

Transport category	**3**
Tunnel restriction code	**D/E**
IMDG **Limited quantities (LQ)** **Excepted quantities (EQ)**	 **5L** **Code: E1** **Maximum net quantity per inner packaging: 30 ml** **Maximum net quantity per outer packaging: 1000 ml**
UN "Model Regulation":	**UN 1866 RESIN SOLUTION, 3, III, ENVIRONMENTALLY HAZARDOUS**

SECTION 15: Regulatory information

15.1 Regulations on Safety, Health, and Environment Specific to the Substance or Mixture
Regulation (EC) No. 1907/2006 (REACH), Regulation (EU) 2020/878, Regulation (EC) No. 1272/2008 (CLP)
Directive 98/24/EC concerning the protection of workers from chemical risks in the workplace. Council Directive 94/33/EC on safeguarding young workers, as amended. Directive 92/85/EEC regarding safety and health measures for pregnant employees, new mothers, and breastfeeding workers, as amended
Directive 2012/18/EU
Dangerous Substances Listing - Annex I: The substance is not listed in Annex I.
Seveso Categories:E2: Environmental hazard (Aquatic), P5c: Flammable liquids.
Qualifying Quantities for Seveso Directive Requirements
Lower-tier threshold: 200 tonnes
Upper-tier threshold: 500 tonnes
Regulation (EC) No 1907/2006 (REACH) - Annex XVII Conditions of Restriction: 3
Directive 2011/65/EU (RoHS) - Annex II None of the ingredients are listed under the restriction of hazardous substances in electrical and electronic equipment.
Regulation (EU) 2019/1148 Annex I - Restricted Explosives Precursors: No ingredients listed (upper limit for licensing per Article 5(3)).
Annex II - Reportable Explosives Precursors: No ingredients listed.
Regulation (EC) No 273/2004 on Drug Precursors No ingredients are listed.
Regulation (EC) No 111/2005 on Monitoring Trade in Drug Precursors No ingredients are listed.
National Regulations: None applicable.
Other Regulations, Limitations, and Restrictions
Substances of Very High Concern (SVHC) as per REACH Article 57:
The product does not contain any substances classified as SVHC.
15.2 Chemical Safety Assessment A Chemical Safety Assessment has not been conducted.

SECTION 16: Other information

This information reflects our current understanding. However, it does not serve as a guarantee of specific product characteristics and does not form a legally binding contract.

Relevant phrases

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.
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.

Training Recommendations

Employees should receive appropriate training on safe handling, storage, and processing of the product, using all available information as a basis.

Classification according to Regulation (EC) No 1272/2008

Flammable liquids	Bridging principles
Acute toxicity - dermal Acute toxicity - inhalation Skin corrosion/irritation Serious eye damage/irritation Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure) Hazardous to the aquatic environment - long-term (chronic) aquatic hazard	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.
Aspiration hazard	Expert judgement

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Department issuing SDS:

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Version number of previous version: 4

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)
VOC: Volatile Organic Compounds (USA, EU)
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
ATE: Acute toxicity estimate values
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 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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