

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 22.07.2020

Version number 1

Revision: 22.07.2020

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

1.1 Product identifier

Trade name: **Akepur 250 High Tack Componente A**

Article number: 11488_A, 11489_A

UFI: 40R3-Y08D-300W-GUR9

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

Adhesives
Polyurethane-sealant

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH
Lechstrasse 28
D 90451 Nürnberg

Tel. +49(0)911-642960

Fax. +49(0)911-644456

e-mail info@akemi.de

Further information obtainable from:

Laboratory

1.4 Emergency telephone number:

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH
Tel. +49(0)911-64296-59
Reachable during the following office hours:
Monday – Thursday from 07:30 a.m. to 16:30 p.m.
Friday from 07:30 a.m. to 13:30 p.m.
+44 (171) 635 91 91
National Poison Inform. Centre
Medical Toxicology Unit
Avalonley Road
London SE14 5ER

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms

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



GHS07

Signal word

Warning

Hazard-determining components of labelling:

Hazard statements

titanium dioxide
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 22.07.2020

Version number 1

Revision: 22.07.2020

Trade name: Akepur 250 High Tack Componente A

(Contd. of page 1)

P102 Keep out of reach of children.
 P103 Read label before use.
 P273 Avoid release to the environment.
 P280 Wear protective gloves / eye protection.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.
 Remove contact lenses, if present and easy to do. Continue rinsing.
 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: consisting of the following components.

Dangerous components:

CAS: 1317-65-3 EINECS: 215-279-6	calcium carbonate, natural (GCC) substance with a Community workplace exposure limit	25-50%
CAS: 13463-67-7 EINECS: 236-675-5 Index number: 022-006-00-2 Reg.nr.: 01-2119489379-17-xxxx	titanium dioxide  Carc. 2, H351	<10%
CAS: 25214-63-5 NLP: 500-035-6 Reg.nr.: 01-2119471485-32-0002	ethylenediamine, propoxylated  Eye Irrit. 2, H319	<10%
CAS: 25322-69-4	Polypropylenglykol  Acute Tox. 4, H302	<10%
CAS: 112-69-6 EINECS: 203-997-2 Reg.nr.: 01-2119485394-29	Hexadecyldimethylamine  Skin Corr. 1A, H314  Aquatic Acute 1, H400; Aquatic Chronic 1, H410  Acute Tox. 4, H302	1-5%

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: No special measures required.
 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 continues, consult a doctor.
 After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
 After swallowing: Induce vomiting only, if affected person is fully conscious.
 If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

(Contd. on page 3)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 22.07.2020

Version number 1

Revision: 22.07.2020

Trade name: Akepur 250 High Tack Componente A

(Contd. of page 2)

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

· **5.2 Special hazards arising from the substance or mixture**

In case of fire, the following can be released:

Carbon monoxide (CO)

Nitrogen oxides (NO_x)

Hydrogen cyanide (HCN)

· **5.3 Advice for firefighters**

· Protective equipment:

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

· Additional information

Cool endangered receptacles with water spray.

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**

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

· **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.

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).

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**

Ensure good ventilation/exhaustion at the workplace.

Store in cool, dry place in tightly closed receptacles.

· 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:

Store only in the original receptacle.

Store in a cool location.

No special requirements.

· Information about storage in one common storage facility:

Store away from foodstuffs.

· Further information about storage conditions:

Protect from frost.

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 22.07.2020

Version number 1

Revision: 22.07.2020

Trade name: Akepur 250 High Tack Komponente A

(Contd. of page 3)

- Storage class: 10
- **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.

8.1 Control parameters

- Ingredients with limit values that require monitoring at the workplace:

1317-65-3 calcium carbonate, natural (GCC)

TWA	Long-term value: 10 mg/m ³ atembarer Staub
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· DNELs

13463-67-7 titanium dioxide

Oral	DNEL (Langzeit-wiederholt)	700 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	10 mg/m ³ Air (ARB)

25214-63-5 ethylenediamine, propoxylated

Oral	DNEL (Langzeit-wiederholt)	8.3 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	13.9 mg/kg bw/day (ARB)
		8.3 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	98 mg/m ³ Air (ARB)
		29 mg/m ³ Air (BEV)

25322-69-4 Polypropylenglykol

Oral	DNEL (Langzeit-wiederholt)	24 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	84 mg/kg bw/day (ARB)
		51 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	10 mg/m ³ Air (ARB)
		10 mg/m ³ Air (BEV)

112-69-6 Hexadecyldimethylamine

Inhalative	DNEL (Kurzzeit-akut)	1 mg/m ³ Air (ARB)
	DNEL (Langzeit-wiederholt)	1 mg/m ³ Air (ARB)

· PNECs

13463-67-7 titanium dioxide

PNEC (wässrig)	100 mg/l (KA)
	1 mg/l (MW)
	0.127 mg/l (SW)
PNEC (fest)	100 mg/kg Trockengew (BO)
	100 mg/kg Trockengew (MWS)
	1,000 mg/kg Trockengew (SWS)

25214-63-5 ethylenediamine, propoxylated

PNEC (wässrig)	70 mg/l (KA)
	0.0085 mg/l (MW)
	0.085 mg/l (SW)
PNEC (fest)	0.0183 mg/kg Trockengew (BO)
	0.034 mg/kg Trockengew (MWS)
	0.34 mg/kg Trockengew (SWS)

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 22.07.2020

Version number 1

Revision: 22.07.2020

Trade name: Akepur 250 High Tack Componente A

(Contd. of page 4)

25322-69-4 Polypropylenglykol

PNEC (wässrig)	100 mg/l (KA) 0.01 mg/l (MW) 0.1 mg/l (SW) 1 mg/l (WAS)
PNEC (fest)	0.109 mg/kg Trockengew (BO) 0.0765 mg/kg Trockengew (MWS) 0.765 mg/kg Trockengew (SWS)

112-69-6 Hexadecyldimethylamine

PNEC (wässrig)	0.13 mg/l (KA) 0.00003 mg/l (MW) 0.00026 mg/l (SW)
PNEC (fest)	1 mg/kg Trockengew (BO) 0.125 mg/kg Trockengew (MWS) 1.25 mg/kg Trockengew (SWS)

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

· **8.2 Exposure controls**· Personal protective equipment:· General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

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

Use skin protection cream for skin protection.

Wash hands before breaks and at the end of work.

· Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Filter B

Not necessary if room is well-ventilated.

· Protection of hands:

The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type. The mentioned permeation times' data were generated and verified with material samples of the recommended protection glove type in the scope of laboratory analyses of the company KCL GmbH in compliance with EN374.

This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell, internet: <http://www.kcl.de>).

Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

**Protective gloves**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

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

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 22.07.2020

Version number 1

Revision: 22.07.2020

Trade name: Akepur 250 High Tack Componente A

(Contd. of page 5)

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| <ul style="list-style-type: none"> · <u>Penetration time of glove material</u> · <u>Eye protection:</u> · <u>Body protection:</u> | <p>glove material can not be calculated in advance and has therefore to be checked prior to the application.</p> <p>The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.</p> <p>Goggles recommended during refilling</p> <p>Protective work clothing</p> |
|--|--|

SECTION 9: Physical and chemical properties**· 9.1 Information on basic physical and chemical properties****· General Information****· Appearance:**Form:

Pasty

Colour:

White

· Odour:

Nearly odourless

· Odour threshold:

Not determined.

· pH-value:

Not determined.

· Change in conditionMelting point/freezing point:

Undetermined.

Initial boiling point and boiling range:

Undetermined.

· Flash point:

185 °C

· Flammability (solid, gas):

Not applicable.

· Ignition temperature:

>450 °C

· Decomposition temperature:

Not determined.

· Auto-ignition temperature:

Product is not selfigniting.

· Explosive properties:

Product does not present an explosion hazard.

· Explosion limits:Lower:

Not determined.

Upper:

Not determined.

· Vapour pressure:

Not determined.

· Density at 20 °C:1.54 g/cm³**· Relative density**

Not determined.

· Vapour density

Not determined.

· Evaporation rate

Not determined.

· Solubility in / Miscibility withwater:

Not miscible or difficult to mix.

· Partition coefficient: n-octanol/water:

Not determined.

· Viscosity:Dynamic at 20 °C:

55,300 mPas

Kinematic:

Not determined.

· Solvent content:Solids content:

55.6 %

· 9.2 Other information

No further relevant information available.

SECTION 10: Stability and reactivity**· 10.1 Reactivity**

No further relevant information available.

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 22.07.2020

Version number 1

Revision: 22.07.2020

Trade name: Akepur 250 High Tack Componente A

(Contd. of page 6)

- **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 known.

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:

ATE (Acute Toxicity Estimates)

Oral	LD50	42,919 mg/kg (rat)
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1317-65-3 calcium carbonate, natural (GCC)

Oral	LD50	>2,000 mg/kg (rat)
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13463-67-7 titanium dioxide

Oral	LD50	>5,010 mg/kg (rat)
	NOAEL	24,000 mg/kg (rat)
Dermal	LD50	>10,010 mg/kg (rbt)
	NOAEL	10 mg/m ³ (rat)
Inhalative	LC50/48h	>100 mg/l (daphnia magna)

25214-63-5 ethylenediamine, propoxylated

Oral	LD50	>2,000 mg/kg (rat)
	NOAEL-Werte	1,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)

25322-69-4 Polypropylenglykol

Oral	LD50	10,000 mg/kg (rat)
	NOAEL	≥1,000 mg/kg (rat)
Dermal	LD50	>3,000 mg/kg (rabbit)

112-69-6 Hexadecyldimethylamine

Oral	LD50	1,015 mg/kg (rat)
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- Primary irritant effect:
- Skin corrosion/irritation Causes skin irritation.
- Serious eye damage/irritation Causes serious eye irritation.
- 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 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 Based on available data, the classification criteria are not met.

(Contd. on page 8)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 22.07.2020

Version number 1

Revision: 22.07.2020

Trade name: Akepur 250 High Tack Componente A

(Contd. of page 7)

SECTION 12: Ecological information**· 12.1 Toxicity****· Aquatic toxicity:****1317-65-3 calcium carbonate, natural (GCC)**

EC50/48h	>100 mg/l (daphnia magna)
EC50/72h	>14 mg/l (Desmodesmus subspicatus)
LC50/96h	>100 mg/l (Oncorhynchus mykiss)

13463-67-7 titanium dioxide

EC50	>1,000 mg/l (bacteria)
EC50/48h	>100 mg/l (daphnia magna)
EC50/72h	16 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	>100 mg/l (Oncorhynchus mykiss)
	>1,000 mg/l (pimephales promelas)

25214-63-5 ethylenediamine, propoxylated

IC50/72h	>100 mg/l (Desmodesmus subspicatus)
EC50/48h	>100 mg/l (daphnia magna)
ErC50/72h	150.67 mg/l (Desmodesmus subspicatus)
NOEC	700 mg/l (BES)
NOEC/21d	≥10 mg/l (daphnia magna)
LC50/96h	>100 mg/l (Brachydanio rerio)
	4,870 mg/l (Danio rerio.)
	4,600 mg/l (Leuciscus idus)

25322-69-4 Polypropylenglykol

EC50	>1,000 mg/l (BES)
IC50/72h	>100 mg/l (green alge)
IC50/96h	>100 mg/l (poecilia reticulata)
EC0	≥100 mg/l (Desmodesmus subspicatus)
NOEC/21d	≥10 mg/l (daphnia magna)
EC50/48h	>100 mg/l (daphnia magna)
LC50/96h	>100 mg/l (Oncorhynchus mykiss)
	>100 mg/l (poecilia reticulata)

112-69-6 Hexadecyldimethylamine

EC50/48h	0.0665 mg/l (daphnia magna)
EC10	0.001 mg/l (Desmodesmus subspicatus)
EC50/72h	0.0099 mg/l (Desmodesmus subspicatus)
LC50/96h	0.256 mg/l (Danio rerio.)

· 12.2 Persistence and degradability

Not easily biodegradable

· 12.3 Bioaccumulative potential

Non significant accumulation in organisms

· 12.4 Mobility in soil

No further relevant information available.

· Ecotoxicological effects:**· Remark:**

Harmful to fish

· Additional ecological information:**· General notes:**

Harmful to aquatic organisms

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

· 12.5 Results of PBT and vPvB assessment**· PBT:**

Not applicable.

(Contd. on page 9)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 22.07.2020

Version number 1

Revision: 22.07.2020

Trade name: Akepur 250 High Tack Componente A

(Contd. of page 8)

- 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.

- European waste catalogue

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 04 00	wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 10	waste adhesives and sealants other than those mentioned in 08 04 09

- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

- **14.1 UN-Number**
- ADR, ADN, IMDG, IATA Void
- **14.2 UN proper shipping name**
- ADR, ADN, IMDG, IATA Void
- **14.3 Transport hazard class(es)**
- ADR, ADN, IMDG, IATA
- Class Void
- **14.4 Packing group**
- ADR, IMDG, IATA Void
- **14.5 Environmental hazards:**
- Marine pollutant: No
- **14.6 Special precautions for user** Not applicable.
- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.
- Transport/Additional information: Not dangerous according to the above specifications.
- 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.

(Contd. on page 10)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 22.07.2020

Version number 1

Revision: 22.07.2020

Trade name: Akepur 250 High Tack Componente A

(Contd. of page 9)

- National regulations:
- Information about limitation of use: Employment restrictions concerning juveniles must be observed.
Employment restrictions concerning pregnant and lactating women must be observed.
- Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- VOC EU 130.1 g/l
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant phrases
 - H302 Harmful if swallowed.
 - H314 Causes severe skin burns and eye damage.
 - H319 Causes serious eye irritation.
 - H351 Suspected of causing cancer.
 - H400 Very toxic to aquatic life.
 - H410 Very toxic to aquatic life with long lasting effects.
- Department issuing SDS: Laboratory
- Contact: Elke Hake
Fon ++49 (0)911 64296-59
@mail E.Hake@akemi.de
- 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
 - 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
 - Acute Tox. 4: Acute toxicity - oral – Category 4
 - Skin Corr. 1A: Skin corrosion/irritation – Category 1A
 - Skin Irrit. 2: Skin corrosion/irritation – Category 2
 - Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 - Carc. 2: Carcinogenicity – Category 2
 - 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

GB