

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 06.02.2025

Version number 41 (replaces version 40)

Revision: 05.02.2025

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

· 1.1 Product identifier

· Trade name

Okapox Royal Komp. B

· UFI:

QK50-20MW-2005-UKYG

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

none

· Sector of Use

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

· Application of the substance / the mixture

Hardening agent/ Curing agent

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

Kiesel Bauchemie GmbH & Co. KG
Wolf-Hirth-Str. 2

D-73730 Esslingen

Tel.: +49(0)711/93134-0

Fax: +49(0)711/93143-140

E-Mail: sida@kiesel.com

· Informing department:

Laboratory, departments of environmental protection and labor protection

· 1.4 Emergency telephone number:

Poison Information Center Freiburg Tel.: +49(0)761/ 19240
(24h German and English)

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

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



GHS05 corrosion

Skin Corr. 1B

H314 Causes severe skin burns and eye damage.

Eye Dam. 1

H318 Causes serious eye damage.



GHS09 environment

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



GHS07

Skin Sens. 1

H317 May cause an allergic skin reaction.

· 2.2 Label elements

· Labelling according to

Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.

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· **Hazard pictograms**



GHS05 GHS07 GHS09

· **Signal word**

Danger

· **Hazard-determining components of labelling:**

Reaction product of dimeric fatty acids, C18-unsaturated, and polyethylene polyamine
 3-aminomethyl-3,5,5-trimethylcyclohexylamine
 Amines, polyethylenepoly-, triethylenetetramine fraction
 Amines, polyethylenepoly-, tetraethylenepentamine fraction
 3-aminopropyltriethoxysilane
 N-(3-(trimethoxysilyl)propyl)ethylenediamine
 2-[(3-aminopropyl)methylamino]ethanol

· **Hazard statements**

H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.
 H411 Toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P102 Keep out of reach of children.
 P260 Do not breathe dusts or mists.
 P264 Wash thoroughly after handling.
 P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 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.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:**

Restricted to professional users

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

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SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Dangerous components:

CAS: 14808-60-7	Quartz (SiO ₂) Consisting of: 14808-60-7 Quarz (>98%); 14808-60-7 Quartz (fine fraction) (1-10%) ☠ STOT RE 2, H373	50-100%
CAS: 68410-23-1	Reaction product of dimeric fatty acids, C18-unsaturated, and polyethylene polyamine ⚠ Eye Dam. 1, H318 ⚠ Aquatic Chronic 2, H411 ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	≥10-<25%
CAS: 2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318 ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1A, H317 ATE: LD50 oral: 1,030 mg/kg Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.001 %	≥5-<10%
CAS: 90640-67-8	Amines, polyethylenepoly-, triethylenetetramine fraction ⚠ Skin Corr. 1B, H314 ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317 Aquatic Chronic 3, H412	≥5-<10%
CAS: 90640-66-7	Amines, polyethylenepoly-, tetraethylenepentamine fraction ⚠ Skin Corr. 1B, H314 ⚠ Aquatic Chronic 2, H411 ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	≥5-<10%
CAS: 919-30-2	3-aminopropyltriethoxysilane ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318 ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317 Specific concentration limit: Skin Sens. 1B; H317: C ≥ 3 %	≥1-<2.5%
CAS: 41999-70-6	2-[(3-aminopropyl)methylamino]ethanol ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318 ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	≥1-<2.5%
CAS: 1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine ⚠ Resp. Sens. 1, H334 ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318 ⚠ Skin Sens. 1, H317; STOT SE 3, H335 Aquatic Chronic 3, H412	≥0.5-<1%

· Additional information

CAS: 14808-60-7 Quarz : This substance is firmly incorporated into the matrix in this product and therefore does not contribute to the labelling.
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 contaminated clothing.
If you feel unwell, seek medical advice.*
- **After inhalation** *Take affected persons into the open air and position comfortably
Provide plenty of fresh air.
In case of unconsciousness bring patient into stable side position for transport.
Seek medical treatment in case of complaints.*
- **After skin contact** *Instantly wash with water and soap and rinse thoroughly.*
- **After eye contact** *Rinse opened eye for several minutes under running water.
Then consult doctor.*
- **After swallowing** *Drink copious amounts of water and provide fresh air.
Instantly call for doctor.*
- **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** *No further relevant information available.*

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents** *Alcohol-resistant foam
Fire-extinguishing powder
Carbon dioxide
Sand
Water spray jet
CO2, extinguishing powder or water jet. Fight larger fire with alcohol-resistant foam.
Use fire fighting measures that suit the environment.*
- **For safety reasons unsuitable extinguishing agents** *Water with a full water jet.*
- **5.2 Special hazards arising from the substance or mixture** *Formation of poisonous gases during heating or in fires.
No further relevant information available.*
- **5.3 Advice for firefighters**
- **Protective equipment:** *Wear non-circulation breathing equipment and chemical-protective clothing. Do not inhale explosion gases or fire fumes.*

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SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** *Ensure adequate ventilation
Put on breathing apparatus.*
- **6.2 Environmental precautions:** *Inform respective authorities in case product reaches water or sewage system.*
- **6.3 Methods and material for containment and cleaning up:** *Take-up with liquid binding material (sand, diatomaceous earth, acid binding agent, universal binding agent).
Use neutralising agent.
Dispose of contaminated material as waste according to item 13.*
- **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 information on disposal.*

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** *Do not leave the container standing open.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.*
- **Information about protection against explosions and fires:** *Keep breathing equipment ready.*
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** *No special requirements.*
- **Information about storage in one common storage facility:** *Store away from foodstuffs.*
- **Further information about storage conditions:** *Keep container tightly sealed.*
- **Storage class** *8 A*
- **7.3 Specific end use(s)** *No further relevant information available.*

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SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters
- Components with critical values that require monitoring at the workplace:

· DNELs

CAS: 919-30-2 3-aminopropyltriethoxysilane

Dermal	Long-term value	8.3 mg/kg/d (Worker)
	Short-term value	8.3 mg/kg/d (Worker)
Inhalative	Long-term value	59 mg/m ³ (Worker)
	Short-term value	59 mg/m ³ (Worker)

· PNECs

CAS: 919-30-2 3-aminopropyltriethoxysilane

Freshwater	0.33 mg/l (-)
Salt water	0.033 mg/l (-)

- Additional information: The lists that were valid during the compilation were used as basis.

- 8.2 Exposure controls
- Appropriate engineering controls

No further data; see section 7.

- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures

Use skin protection cream for preventive skin protection.
 Keep away from foodstuffs, beverages and food.
 Instantly remove any soiled and impregnated garments.
 Wash hands during breaks and at the end of the work.
 Avoid contact with the eyes.
 Avoid contact with the eyes and skin.

- Breathing equipment: Suitable respiratory protection for low concentrations or short-term exposure: Particle filter EN 143 type P2 (medium retention capacity (solid and liquid pollutant particles)). In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

- Hand protection

Solvent resistant gloves
 Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
 Protective gloves.
 The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
 Butyl rubber, BR

- Material of gloves

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· Penetration time of glove material

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

· Eye/face protection

Tightly sealed safety glasses.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· Physical state	Liquid
· Colour:	Yellowish
· Smell:	Amine-like
· Odour threshold:	Not determined.
· Melting point/freezing point:	1,713 °C
· Boiling point or initial boiling point and boiling range	>200 °C
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	>100 °C
· Decomposition temperature:	Not determined.
· pH	Mixture is non-soluble (in water).
· Viscosity:	
· Kinematic viscosity	Not determined.
· dynamic at 20 °C:	1,000 mPas (DIN 53018)
· Solubility	
· Water:	not miscible
· Partition coefficient n-octanol/water (log value)	Not determined.
· Steam pressure at 1732 °C:	13.5 hPa
· Density and/or relative density	
· Density at 20 °C	1.11 g/cm ³
· Relative density	Not determined.
· Settled apparent density	1,400 kg/m ³
· Vapour density	Not determined.

· 9.2 Other information

· Appearance:	The physical data are average values.
· Form:	Fluid
· Self-inflammability:	Product is not selfigniting.
· Explosive properties:	Product is not explosive.
· Solvent content:	
· Solids content:	64.0 %
· Volatile Organic Compounds	0.0 g/l
	0.00 %
· Molecular weight	60.09 g/mol

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- **Change in condition**
- **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** Void
- **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 further relevant information available.
- **10.3 Possibility of hazardous reactions** Reacts with acids
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** None known.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values that are relevant for classification:**
- CAS: 2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine**

Oral	LD50	1,030 mg/kg (ATE)
		1,030 mg/kg (Rat)
Inhalative	LC50/4 h	>5.01 mg/l (Rat)

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CAS: 90640-67-8 Amines, polyethylenepoly-, triethylenetetramine fraction

Oral LD50 1,600 mg/kg (Rat)

Dermal LD50 1,472 mg/kg (Rabbit)

CAS: 90640-66-7 Amines, polyethylenepoly-, tetraethylenepentamine fraction

Oral LD50 3,221 mg/kg (Rat)

Dermal LD50 1,260 mg/kg (Rabbit)

CAS: 919-30-2 3-aminopropyltriethoxysilane

Oral LD50 1,476 mg/kg (Ratte, weiblich)

2,698 mg/kg (Rat)

Dermal LD50 4,033 mg/kg (Rabbit)

CAS: 41999-70-6 2-[(3-aminopropyl)methylamino]ethanol

Oral LD50 200-500 mg/kg (Rat)

Dermal LD50 1,000-2,000 mg/kg (Rabbit)

• Primary irritant effect:

• Skin corrosion/irritation Causes severe skin burns and eye damage.

• Serious eye damage/irritation Causes serious eye damage.

• Respiratory or skin sensitisation

May cause an allergic skin reaction.

• Germ cell mutagenicity

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

• Carcinogenicity

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

• Reproductive toxicity

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

• STOT-single exposure

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

• STOT-repeated exposure

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

• Aspiration hazard

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

• 11.2 Information on other hazards

• Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

• 12.1 Toxicity

• Aquatic toxicity:

CAS: 2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Oral EbC50 (72h) 37 mg/l (Alge Scenedesmus sp)

LC 50 (96h) 110 mg/l (Goldorfe (Leuciscus idus))

EC50 (48h) 23 mg/l ((Wasserfloh (Daphnia magna)))

EC10 (18h) 1,120 mg/l (Bakterien)

CAS: 919-30-2 3-aminopropyltriethoxysilane

LC 50 (96h) >934 mg/l (Danio rerio (Zebraabärbling)) (OECD Richtlinie 203)

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CAS: 41999-70-6 2-[(3-aminopropyl)methylamino]ethanol

LC 50 (96h) 315.7 mg/l (Fisch)

EC50 (48h) 145 mg/l (Dap)

- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
- 12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.
- 12.7 Other adverse effects
- Remark: Toxic for fish
- Additional ecological information:
- General notes: Water hazard class 2 (Self-assessment): hazardous for water.
Do not allow product to reach ground water, water bodies or sewage system.
Must not reach sewage water or drainage ditch undiluted or unneutralised.
Danger to drinking water if even small quantities leak into soil.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
- Recommendation Disposal according to official regulations
- European waste catalogue
- 08 04 09* waste adhesives and sealants containing organic solvents or other hazardous substances
- Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

- 14.1 UN number or ID number
- ADR, IMDG, IATA UN1719
- 14.2 UN proper shipping name
- ADR 1719 CAUSTIC ALKALI LIQUID, N.O.S.
(TRIETHYLENETETRAMINE, 3-aminopropyltriethoxysilane),

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· · ADN · IMDG, IATA	ENVIRONMENTALLY HAZARDOUS ENTH.POLYAMINE CAUSTIC ALKALI LIQUID, N.O.S. (TRIETHYLENETETRAMINE, 3-aminopropyltriethoxysilane)
· 14.3 Transport hazard class(es) · ADR, IMDG   · Class · Label	8 Corrosive substances. 8
· IATA  · Class · Label	8 Corrosive substances. 8
· 14.4 Packing group · ADR, IMDG, IATA	II
· 14.5 Environmental hazards: · Marine pollutant: · Special marking (ADR):	No Symbol (fish and tree) Symbol (fish and tree)
· 14.6 Special precautions for user · Kemler Number: · EMS Number: · Segregation groups · Stowage Category · Segregation Code	Warning: Corrosive substances. 80 F-A,S-B (SGG18) Alkalis A SG22 Stow "away from" ammonium salts SG35 Stow "separated from" SGG1-acids
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	Postversand UNZULÄSSIG
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Transport category	2

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· Tunnel restriction code	E
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1719 CAUSTIC ALKALI LIQUID, N.O.S. (TRIETHYLENETETRAMINE, 3 - AMINOPROPYLTRIETHOXY SILANE), 8, II, ENVIRONMENTALLY HAZARDOUS

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 are included

· Seveso category

E2 Hazardous to the Aquatic Environment

· Qualifying quantity (tonnes) for the application of lower-tier requirements

200 t

· Qualifying quantity (tonnes) for the application of upper-tier requirements

500 t

· REGULATION (EC) No 1907/2006 ANNEX XVII

Conditions of restriction: 3

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

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

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

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

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

None of the ingredients is listed.

· National regulations

· Information about limitation of use:

Employment restrictions concerning young persons must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

· 15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Chapters which have been revised from the previous issue are marked "***".

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

This information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge. It does not constitute a legal warranty regulations. The delivery specifications are contained in the corresponding product sheet.

This Safety Data Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

· Date of previous version: 02.08.2021

· Version number of previous version: 40

· Abbreviations and acronyms: IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

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 (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

ATE: Acute toxicity estimate values

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Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1A: Skin sensitisation – Category 1A

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

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.**

- **Comment**

The information is based on our knowledge we do have so far. However it is not a confirmation of product features and does not establish contractual legal relationship. Use, operation and processing are the responsibility of the customer.