

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

Printing date 11.01.2019

Revision: 11.01.2019

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

· **1.1 Product identifier**

· **Trade name:** ALGICIDE PLUS

· **Article number:** 1.009.331

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

No further relevant information available.

ALGICID PLUS is a biocide product for application in PT10.

· **Life cycle stages**

PW Widespread use by professional workers

C Consumer use

· **Sector of Use**

SU21 Consumer uses: Private households / general public / consumers

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

SU19 Building and construction work

· **Product category**

PC8 Biocidal products

Product Algicide Plus is used as a protective agent in the building for the protection and repair of construction buildings and other construction materials other than wood for prevent against microbial and algal attack.

· **Process category**

PROC19 Manual activities involving hand contact

PROC10 Roller application or brushing

· **Environmental release category** ERC10a Widespread use of articles with low release (outdoor)

· **Application of the substance / the mixture** Biocide

· **Uses advised against**

Product is used for preservation and remedial treatment of masonry or other construction materials other than wood by the control of microbiological and algal attack.

Other applications of this biocide products are not recommended. See Point 15 of SDS.

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

JUB d.o.o.

Dol pri Ljubljani 28

1262 DOL PRI LJUBLJANI

SLOVENIA

T: + 386 1 5884 183

F: + 386 1 5884 250

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· **Further information obtainable from:**

Laura Učakar

T: +386 1 5884 185

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· **1.4 Emergency telephone number:**

UK Emergency number: 999

Emergency Action: In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department.

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SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

The product is classified as an irritant and a dangerous mixture, toxic to the aquatic environment in accordance with regulations on classification, linked to the CLP Regulation 2008/1272 / EC.

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



GHS09 environment

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

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.

· Hazard pictograms



GHS07



GHS09

· Signal word Warning

· Hazard-determining components of labelling:

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
2-octyl-2H-isothiazol-3-one

· Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

· Precautionary statements

P103 Read label before use.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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

· Additional information:

EUH210 Safety data sheet available on request.

The treated article incorporates biocidal products: Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides, 2-octyl-2H-isothiazol-3-one

· 2.3 Other hazards

· Results of PBT and vPvB assessment Not applicable.

· PBT: Not applicable.

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· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **Description:** Mixture of substances listed below with nonhazardous additions.· **Dangerous components:**

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CAS: 111-46-6 EINECS: 203-872-2	diethylene glycol STOT RE 2, H373 Acute Tox. 4, H302	>5-≤10%
CAS: 68424-85-1 EINECS: 270-325-2	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides Skin Corr. 1A, H314; Eye Dam. 1, H318 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute Tox. 4, H302	>1-≤5%
CAS: 26530-20-1 EINECS: 247-761-7	2-octyl-2H-isothiazol-3-one Acute Tox. 3, H311; Acute Tox. 3, H331 Skin Corr. 1B, H314 Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10) Acute Tox. 4, H302; Skin Sens. 1, H317	≤0.5%

· **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**· **After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.· **After swallowing:** If symptoms persist consult 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

· **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.· **5.2 Special hazards arising from the substance or mixture** No further relevant information available.· **5.3 Advice for firefighters**· **Protective equipment:** No special measures required.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures** Wear protective clothing.· **6.2 Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

In case of gas release or seepage into the ground inform responsible authorities.

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.

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- **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.
Prevent formation of aerosols.
- **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:** Prevent any seepage into the ground.
- **Information about storage in one common storage facility:**
Do not store together with reducing agents, heavy-metal compounds, acids and alkalis.
- **Storage class:** Storage class: 12 – Incombustible products
- **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:**

CAS: 111-46-6 diethylene glycol
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WEL Long-term value: 101 mg/m ³ , 23 ppm

- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
- **Respiratory protection:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Suitable respiratory protective device recommended.
- **Protection of hands:**



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 glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **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.

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· **Eye protection:**

Tightly sealed goggles

Goggles recommended during refilling

· **Risk management measures**

It is recommended to use high-quality work clothing and protective equipment. Use only outfits that meet the following standards:

- Protective gloves that meet the criteria of BS EN 374.

- Protective goggles must comply with standard BS EN 166.

- Protective mask respirator for fine dust particles and vapors should be in accordance with BS EN 143 (full face masks).

SECTION 9: Physical and chemical properties· **9.1 Information on basic physical and chemical properties**· **General Information**· **Appearance:**· **Form:** Fluid· **Colour:** Light yellow· **Odour:** Mild· **Odour threshold:** Not determined.· **pH-value at 20 °C:** >4· **Change in condition**· **Melting point/freezing point:** Undetermined.· **Initial boiling point and boiling range:** 100 °C· **Flash point:** 146 °C· **Flammability (solid, gas):** Not applicable.· **Ignition temperature:** 225 °C· **Decomposition temperature:** Not determined.· **Auto-ignition temperature:** Product is not selfigniting.· **Explosive properties:** Product does not present an explosion hazard.· **Explosion limits:**· **Lower:** 0.7 Vol %· **Upper:** 22 Vol %· **Vapour pressure:** Not determined.· **Density at 20 °C:** 1.005 g/cm³· **Relative density** Not determined.· **Vapour density** Not determined.· **Evaporation rate** Not determined.· **Solubility in / Miscibility with water:**

Fully miscible.

· **Partition coefficient: n-octanol/water:** Not determined.· **Viscosity:**· **Dynamic:** Not determined.· **Kinematic:** Not determined.· **Solvent content:** 0.0 g/l· **Organic solvents:** 10.0 %· **VOC (EC)** 0.00 %· **Solids content:** 0.0 %

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- **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 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	16,667 mg/kg
Dermal	LD50	>300,000 mg/kg (rat)
Inhalative	LC50/4 h	90 mg/l (rat)

CAS: 111-46-6 diethylene glycol

Oral	LD50	12,565 mg/kg (rat)
Dermal	LD50	11,890 mg/kg (rabbit)

CAS: 26530-20-1 2-octyl-2H-isothiazol-3-one

Oral	LD50	550 mg/kg (rat)
Dermal	LD50	>900 mg/kg (rat) >2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	0.27 mg/l (rat)

2-Octyl-2H-isothiazol-3-one (CAS: 26530-20-1)
Oral: LC50: > 5000 mg / kg for 5 days (Quail)
LD50: > 500 mg / kg (Rat)
Dermal LD50: > 900 mg / kg (Rat)
Inhalation LC50: 0.27 mg / l, 4h (Rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes skin irritation.
- **Serious eye damage/irritation**
Causes serious eye irritation.
- **Respiratory or skin sensitisation**
May cause an allergic skin reaction.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

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SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

CAS: 26530-20-1 2-octyl-2H-isothiazol-3-one

Inhalative	LC50/ 21 dni	0.022 mg/l (/)
	LC100/ 21 dni	0.076 mg/l (/)
	EC50/ 48 h	0.42 mg/l (daphnia)
	EC50/ 21 dni	0.058 mg/l (daphnia)
	NOEC	0.0016 mg/l (daphnia)

CAS 63449-41-2 / Quaternary ammonium compounds, benzyl-C8-C18-alkyldimethyl chloride

EC50 / 48h 0,016 mg/l (Daphnia magna)

IC50 / 72h 0,03 mg/l (Selenastrum capricornutum)

LC50 / 96h 0,85 mg/l (Oncorhynchus mykiss)

CAS 26530-20-1 / 2-Octyl-2H-isothiazol-3-on

EC50 / 48 h 0,42 mg/l (Daphnia magna)

IC50 / 72h 0,084mg/l (Scenedesmus subspicatus)

LC50 / 96h 0,03 mg/l (Oncorhynchus mykiss)

· 12.2 Persistence and degradability No further relevant information available.

· Behaviour in environmental systems:

· Components:

CAS 63449-41-2 / Quaternary ammonium compounds, benzyl-C8-C18-alkyldimethyl chlorides

EC50 / 0.5H 11 mg / l (Activated sludge)

CAS 26530-20-1 / 2-octyl-2H-isothiazol-3-one

EC50 / 0.5H 11 mg / l (Activated sludge)

· 12.3 Bioaccumulative potential No further relevant information available.

· 12.4 Mobility in soil No further relevant information available.

· Ecotoxicological effects:

· Remark: Very toxic for 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.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

· 12.5 Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

· 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

Waste of product is classified as ecotoxic waste (code under the Rules H 14) due to the presence C34 (biocides) EWC: 08 01 19*. Removes it only in an organized manner, or in landfill specially adapted to the landfill (CN proceedings under the Rules D5) or physico-chemical treatment (D9) or high-temperature incineration (D10).

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Hand over to hazardous waste disposers.

· European waste catalogue

16 03 05* organic wastes containing hazardous substances

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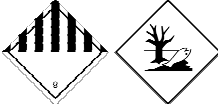
15 01 10* | packaging containing residues of or contaminated by hazardous substances

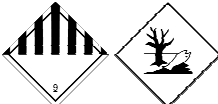
- **Uncleaned packaging:**
- **Recommendation:**
Packagings that may not be cleansed are to be disposed of in the same manner as the product.
Dispose of packaging according to regulations on the disposal of packagings.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- **14.1 UN-Number** The product ALGICID PLUS is a substance or mixture classified in accordance with the provisions of ADR as dangerous for transport - UN3082.
- **ADR, IMDG, IATA** UN3082

- **14.2 UN proper shipping name** 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides)
- **ADR** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides, 2-octyl-2H-isothiazol-3-one), MARINE POLLUTANT
- **IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides)
- **IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides)

- **14.3 Transport hazard class(es)**
- **ADR**
- 
- **Class** 9 (M6) Miscellaneous dangerous substances and articles.
- **Label** 9

- **IMDG, IATA**
- 
- **Class** 9 Miscellaneous dangerous substances and articles.
- **Label** 9

- **14.4 Packing group** III
- **ADR, IMDG, IATA**

- **14.5 Environmental hazards:** Product contains environmentally hazardous substances: quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides, 2-octyl-2H-isothiazol-3-one
- **Marine pollutant:** Yes
- **Special marking (ADR):** Symbol (fish and tree)
- **Special marking (IATA):** Symbol (fish and tree)

- **14.6 Special precautions for user** Warning: Miscellaneous dangerous substances and articles.

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· Danger code (Kemler):	90
· EMS Number:	F-A,S-F
· Stowage Category	A
· 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)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Transport category	3
· Tunnel restriction code	E

· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES), 9, III

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Following regulation was considered in the preparation of document:

Legislation on the occupational health and safety, the chemical legislation and regulations on biocidal products, regulations on classification, packaging and labeling of chemical and biocidal products and requirements on safety data sheets for chemicals and biocidal products composition, as well as regulations on the management of packaging and packaging waste and waste.

Following regulation was considered in the preparation of document:

Legislation on the occupational health and safety, the chemical legislation and regulations on biocidal products, regulations on classification, packaging and labeling of chemical and biocidal products and requirements on safety data sheets for chemicals and biocidal products composition, as well as regulations on the management of packaging and packaging waste and waste.

The product Algicide Plus is used in the construction industry as a biocide for the protection and sanitation of buildings and other construction materials other than wood. It prevents infection caused by microbes and algae.

In accordance with current regulations, it is not permitted to use the product: as a disinfectant in areas of food and feed, as an in-can and film preservative, as a protective agent for wood, fibre, leather, rubber and polymerised materials, as slimicide, as metalworking preservatives, as an insecticide and acaricide, as repellent or attractant and as antifouling products.

The use of the active ingredients contained in the product is not allowed in the following types of biocidal products: PT4, PT6, PT7, PT8, PT9, PT12, PT13, PT18, PT19 and PT21.

· Labelling according to Regulation (EC) No 1272/2008 -

· Chemical safety assessment -

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· Seveso category E1

· Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t

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- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction:** 3
- **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.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H331 Toxic if inhaled.
- 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.

· **Recommended restriction of use**

Claims contained in this document are based on our actual knowledge at the time of revision of this document. They do not undertake the properties of the product described in terms of the legal provisions for the pledge.

Placing this document as available does not unbind the product customer from its responsibility to comply with all relevant laws and regulations applicable for this product. This is especially valid in the case of product resale or resale of its mixtures or manufactured products from other areas of law and industrial property rights of third parties. If the product described above is changed by crafting or mixing with other materials, it is not possible to transfer claims from this document onto a newly made product, unless otherwise specified. In the case of product re-packaging the customer must attach the required relevant safety information as well.

· **Department issuing SDS:**

JUB d.o.o.
Product safety department

· **Contact:**

Laura Učakar
laura.ucakar@jub.eu
Željko Nikolić
E: zeljko.nikolic@jub.eu

· **Abbreviations and acronyms:**

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)
VOC: Volatile Organic Compounds (USA, EU)
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 – Category 4
Acute Tox. 3: Acute toxicity – Category 3
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
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
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

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*Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1***· * Data compared to the previous version altered.***Version 1.0, 27.12.2012.**Version 2.0, 18.03.2015; Changes in Chapter 2., 7., 8., 12., 13., 16.**Version 3.0, 13.06.2016; Amending Chapter: 1.,2.,3.,11.,13.,15.,16.*

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