

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

Aquatitron BD

Creation date	10. September 2019	Version	1.0
Revision date			

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

- 1.1. Product identifier**
Substance / mixture Aquatitron BD mixture
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use Chemical production, analytical chemistry, laboratory synthesis, industrial applications.
Mixture uses advised against The product should not be used in ways other than those referred in Section 1.
- 1.3. Details of the supplier of the safety data sheet**
- Supplier**
Name or trade name Ing. Petr Švec - PENTA s.r.o.
Address Radiová 1122/1, Praha 10, 102 00
Czech Republic
Identification number (CRN) 02096013
VAT Reg No CZ02096013
Phone +420 226 060 681
E-mail info@pentachemicals.eu
Web address www.pentachemicals.eu
- Competent person responsible for the safety data sheet**
Name Ing. Petr Švec - PENTA s.r.o.
E-mail info@pentachemicals.eu
- 1.4. Emergency telephone number**
National Health Service (NHS) 111
National poisoning information centre Scotland, NHS 24: 111

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture**
Classification of the mixture in accordance with Regulation (EC) No 1272/2008
The mixture is classified as dangerous.

Flam. Liq. 2, H225
Acute Tox. 3, H301+H311+H331
Skin Corr. 1B, H314
Eye Dam. 1, H318
Carc. 2, H351
Repr. 1B, H360D
STOT SE 1, H370
STOT RE 1, H372
Aquatic Chronic 3, H412

Full text of all classifications and hazard statements is given in the section 16.

Most serious adverse physico-chemical effects

Highly flammable liquid and vapour.

Most serious adverse effects on human health and the environment

Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure. Causes damage to organs. May damage the unborn child. Causes severe skin burns and eye damage. Causes serious eye damage. Toxic if swallowed, in contact with skin or if inhaled. Harmful to aquatic life with long lasting effects.

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2.2. Label elements

Hazard pictogram



Signal word

Danger

Hazardous substances

Chloroform
methanol
Imidazole
Sulphur dioxide
2,2'-iminodiethanol

Hazard statements

H225	Highly flammable liquid and vapour.
H314	Causes severe skin burns and eye damage.
H351	Suspected of causing cancer.
H360D	May damage the unborn child.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
H301+H311+H331	Toxic if swallowed, in contact with skin or if inhaled.

Precautionary statements

P201	Obtain special instructions before use.
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.
P280	Wear protective gloves.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P311	IF exposed or concerned: Call a doctor.
P310	Immediately call a doctor.

2.3. Other hazards

Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of substances and additives specified below.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note.
Index: 602-006-00-4 CAS: 67-66-3 EC: 200-663-8 Registration number: 01-2119486657-20-0005	Chloroform	55-57	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 3, H331 Carc. 2, H351 Repr. 2, H361d STOT RE 1, H372 Specific concentration limit: STOT RE 2, H373: C ≥ 5 %	3
Index: 603-001-00-X CAS: 67-56-1 EC: 200-659-6 Registration number: 01-2119433307-44-xxxx	methanol	30-32	Flam. Liq. 2, H225 Acute Tox. 3, H301, H311, H331 STOT SE 1, H370 Specific concentration limit: STOT SE 1, H370: C ≥ 10 % STOT SE 2, H371: 3 % ≤ C < 10 %	
Index: 613-319-00-0 CAS: 288-32-4 EC: 206-019-2	Imidazole	6-7	Acute Tox. 4, H302 Skin Corr. 1C, H314 Repr. 1B, H360D	
Index: 016-011-00-9 CAS: 7446-09-5 EC: 231-195-2 Registration number: 01-2119485028-34-xxxx	Sulphur dioxide	5-6	Press. Gas (dissolved gas), H280 Skin Corr. 1B, H314 Acute Tox. 3, H331	1, 2
Index: 603-071-00-1 CAS: 111-42-2 EC: 203-868-0	2,2'-iminodiethanol	<5	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 Aquatic Chronic 3, H412	
Index: 053-002-01-6 CAS: 10034-85-2 EC: 233-109-9	hydrogen iodide	1	Skin Corr. 1B, H314 Specific concentration limit: Eye Irrit. 2, H319: 10 % ≤ C < 25 % Skin Corr. 1B, H314: C > 25 % Skin Irrit. 2, H315: 10 % ≤ C < 25 %	1, 2

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Notes

- Note U (Table 3): When put on the market gases have to be classified as "Gases under pressure", in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned:

Press. Gas (Comp.)
Press. Gas (Liq.)
Press. Gas (Ref. Liq.)
Press. Gas (Diss.)

Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2).

- Note 5: The concentration limits for gaseous mixtures are expressed as volume per volume percentage.
- The use of the substance is restricted by Annex XVII of REACH Regulation

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

If inhaled

Take care of your own safety, do not let the affected person walk! Terminate the exposure immediately; move the affected person to fresh air. Beware of the contaminated clothes. Depending on the situation, call the medical rescue service and ensure medical treatment considering the frequent need of further observation for at least 24 hours.

If on skin

Remove contaminated clothes. Take off any rings, watches, bracelets before or during washing if worn in the contaminated areas of the skin. Depending on the situation, call the medical rescue service and always ensure medical treatment. Rinse contaminated areas with a flow of water, lukewarm at best, for 10-30 minutes; do not use any brush, soap or neutralizers. Rinse skin with water/shower. Rinse cautiously with water for several minutes.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

If swallowed

INDUCE VOMITING! Vomiting should be induced in the person only if conscious, within 1 hour from ingestion. If in doubt whether vomiting should be induced, contact the Toxicological Information Centre and give information about the substances or composition of the product as provided on the original packaging or in the safety data sheet of the product. FOLLOWING INGESTION OF TOXIC OR HIGHLY TOXIC SUBSTANCES, GIVE 10-20 CRUSHED TABLETS OF ACTIVATED CARBON, MIXED IN WATER, WITHIN NO LATER THAN 5 MINUTES - irrespective of whether vomiting could be induced. Call medical rescue service.

4.2. Most important symptoms and effects, both acute and delayed

If inhaled

Inhaling vapours can cause corrosion of the breathing system. Cough, headache.

If on skin

Causes severe skin burns.

If in eyes

Causes serious eye damage.

If swallowed

Corrosion of the digestion system can occur.

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4.3. Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide sufficient ventilation. Highly flammable liquid and vapour. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale aerosols. Prevent contact with skin and eyes.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

6.4. Reference to other sections

See the Section 7, 8 and 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. Do not inhale aerosols. Prevent contact with skin and eyes. No smoking. Use only non-sparking tools. Obtain special instructions before use. Do not eat, drink or smoke when using this product. Wash hands and exposed parts of the body thoroughly after handling. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against static discharge. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Do not expose to sunlight. Store locked up. Keep container tightly closed. Keep cool.

The specific requirements or rules relating to the substance/mixture

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

European Union

Substance name (component)	Type	Time of exposure	Value	Note	Source
Chloroform (CAS: 67-66-3)	OEL	8 hours	10 mg/m ³		směrnice EU
	OEL	8 hours	2 ppm		
methanol (CAS: 67-56-1)	OEL	8 hours	260 mg/m ³		směrnice EU
	OEL	8 hours	200 ppm		

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DNEL

2,2'-iminodiethanol

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	1 mg/m ³	Local chronic effects	
Workers	Dermal	0.13 mg/kg bw/day	Local acute effects	
Consumers	Inhalation	0.25 mg/m ³	Local chronic effects	
Consumers	Dermal	0.07 mg/kg bw/day	Systemic chronic effects	
Consumers	Oral	0.06 mg/kg bw/day	Systemic chronic effects	

Chloroform

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	333 mg/m ³	Systemic acute effects	
Workers	Inhalation	2.5 mg/m ³	Systemic chronic effects	
Workers	Dermal	0.94 mg/kg bw/day	Systemic chronic effects	
Consumers	Inhalation	0.18 mg/m ³	Systemic chronic effects	

PNEC

2,2'-iminodiethanol

Route of exposure	Value	Determining method
Freshwater environment	0.0022 mg/l	
Seawater	0.00022 mg/l	
Freshwater sediment	0.019 mg/kg	
Sea sediments	0.0019 mg/kg	
Soil (agricultural)	0.00108 mg/kg	

Chloroform

Route of exposure	Value	Determining method
Drinking water	0.146 mg/l	
Seawater	0.015 mg/l	
Freshwater sediment	0.45 mg/kg	
Sea sediments	0.09 mg/kg	
Soil (agricultural)	0.56 mg/kg	
Microorganisms in wastewater treatment plants	0.048 mg/l	

8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

Skin protection

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

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Respiratory protection

Use insulating breathing apparatus when the exposition limits of the substances are exceeded or at the place with insufficient ventilation.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	
Physical state	liquid at 20°C
color	colorless to yellowish
Odour	characteristic
Odour threshold	data not available
pH	data not available
Melting point/freezing point	data not available
Initial boiling point and boiling range	data not available
Flash point	data not available
Evaporation rate	data not available
Flammability (solid, gas)	data not available
Upper/lower flammability or explosive limits	
flammability limits	data not available
explosive limits	data not available
Vapour pressure	data not available
Vapour density	data not available
Relative density	data not available
Solubility(ies)	
solubility in water	data not available
solubility in fats	data not available
Partition coefficient: n-octanol/water	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
Viscosity	data not available
Explosive properties	data not available
Oxidising properties	data not available

9.2. Other information

Density	data not available
ignition temperature	data not available

SECTION 10: Stability and reactivity

10.1. Reactivity

not available

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

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10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

No toxicological data is available for the mixture.

Acute toxicity

Causes damage to organs. Toxic if swallowed, in contact with skin or if inhaled.

2,2'-iminodiethanol

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD50		1 600 mg/kg		Rat	
Dermal	LD50		12 200 mg/kg		Rabbit	

Chloroform

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD50	OECD 401	908 mg/kg		Rat	
Inhalation			10.5 mg/l	4 hour	Rat	
Skin	LD50		1800 mg/kg		Rat	

methanol

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD50		5628 mg/kg		Rat	
Dermal	LD50		15800 mg/kg		Rat	
Inhalation (vapor)	LC50		83800 mg/kg	4 hour	Rat	

Irritation

2,2'-iminodiethanol

Route of exposure	Result	Method	Time of exposure	Species
Eye	Serious eye damage	OECD 405		Rabbit

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Causes severe skin burns and eye damage. Causes serious eye damage.

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

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Germ cell mutagenicity

Based on available data the classification criteria are not met.

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity

May damage the unborn child.

Toxicity for specific target organ - single exposure

Causes damage to organs.

Toxicity for specific target organ - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. Based on available data the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

Harmful to aquatic life with long lasting effects.

2,2'-iminodiethanol

Parameter	Method	Value	Time of exposure	Species	Environment	Determining method
LC50		1 460 mg/l	96 hour	Fishes (Pimephales promelas)		Static system
EC50		55 mg/l	48 hour	Daphnia (Daphnia magna)		Static system
EC50		2.2 mg/l	96 hour	Algae (Pseudokirchneriella subcapitata)		
	OECD 209	>1 000 mg/l	3 hour	Bacteria (Salmonella typhimurium)	Activated sludge	

Chloroform

Parameter	Method	Value	Time of exposure	Species	Environment	Determining method
LC50		18 mg/l	96 hour	Fishes (Oncorhynchus mykiss)		
EC50		152.5 mg/l	48 hour	Daphnia (Crassostrea gigas)		
ErC50		13.3 mg/l	72 hour	Algae (Chlamydomonas)		

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Chloroform

Parameter	Method	Value	Time of exposure	Species	Environment	Determining method
EC50		0.48 mg/l	24 hour	Bacteria (Nitrosomonas)		

methanol

Parameter	Method	Value	Time of exposure	Species	Environment	Determining method
LC50		29400 mg/l	96 hour	Fishes		
EC50		>10 000 mg/kg	48 hour	Daphnia (Daphnia magna)		
EC50		8 000 mg/l	96 hour	Algae (Scenedesmus subspicatus)		

12.2. Persistence and degradability

Biodegradability

2,2'-iminodiethanol

Parameter	Method	Value	Time of exposure	Environment	Result
	OECD 301F	93 %	30 day		Easily biodegradable

Chloroform

Parameter	Method	Value	Time of exposure	Environment	Result
	OECD 301C	0 %	14 day		Hardly biodegradable

methanol

Parameter	Method	Value	Time of exposure	Environment	Result
		71.5 - 95 %	5 - 20 day	Freshwater	Easily biodegradable

Data not available.

12.3. Bioaccumulative potential

2,2'-iminodiethanol

Parameter	Method	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]
Log Pow	OECD 107	-2.18				

Not available.

12.4. Mobility in soil

Not available.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Other adverse effects

Not available.

SECTION 13: Disposal considerations

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13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

SECTION 14: Transport information

14.1. UN number

UN 1992

14.2. UN proper shipping name

FLAMMABLE LIQUID, TOXIC, N.O.S.

14.3. Transport hazard class(es)

3 Flammable liquids

14.4. Packing group

II - substances presenting medium danger

14.5. Environmental hazards

not available

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not available

Additional information

Hazard identification No.

336 (Kemler Code)

UN number

1992

Classification code

FT1

Safety signs

3+6.1



Air transport - ICAO/IATA

Packaging instructions passenger 352

Cargo packaging instructions 364

Marine transport - IMDG

EmS (emergency plan) F-E, S-D

MFAG 310

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SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

15.2. Chemical safety assessment

not available

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

H225	Highly flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H351	Suspected of causing cancer.
H360D	May damage the unborn child.
H361d	Suspected of damaging the unborn child.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
H301+H311+H331	Toxic if swallowed, in contact with skin or if inhaled.

Guidelines for safe handling used in the safety data sheet

P201	Obtain special instructions before use.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P311	IF exposed or concerned: Call a doctor.
P310	Immediately call a doctor.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures

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DNEL	Derived no-effect level
EC	Identification code for each substance listed in EINECS
EC50	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC50	Concentration causing 50% blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC50	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD50	Lethal dose of a substance in which it can be expected death of 50% of the population
LOAEC	Lowest observed adverse effect concentration
LOAEL	Lowest observed adverse effect level
log Kow	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution From Ships
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Acute Tox.	Acute toxicity
Aquatic Chronic	Hazardous to the aquatic environment
Carc.	Carcinogenicity
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
Press. Gas	Gases under pressure
Repr.	Reproductive toxicity
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure

Training guidelines

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

Aquatitron BD

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Revision date			

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. First aid principles after the exposure to the chemicals (Zásady pro poskytování první pomoci při expozici chemickým látkám, doc. MUDr. Daniela Pelclová, CSc., MUDr. Alexandr Fuchs, CSc., MUDr. Miroslava Hornychová, CSc., MUDr. Zdeňka Trávníčková, CSc., Jiřina Fridrichovská, prom. chem.). Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

More information

Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.