

SAFETY DATA SHEET

Date of issue: 23 November 2023
Version-No: 2.1
Page: 1 of 11
Trade name: AquaBio biological waterbed conditioner



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

1.1. Product identifier

Trade name: **AquaBio biological waterbed conditioner**
Synonym(s): AquaBio biologische waterbedconditioner

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

Use: Waterbed conditioner.
Product category: Product Category 37 (PC37 Water treatment chemicals).
Uses advised against: Other non-specified industry.
Reason: Due to the lack of related experience or information, the supplier cannot approve this use.

1.3. Details of the supplier of the safety data sheet

Manufacturer/supplier: AquaMetrica
Foeke Sjoerdswei 12
8914 BH Leeuwarden
The Netherlands
Telephone: +31 (0) 618 054 299
E - mail: info@aquabio.nl
URL: www.aquabio.nl

Further information obtainable from:

Contact person: Mr. M.P. Walther Boer
Tel.: +(31) 618 054 299
Email: info@aquabio.nl
Working hours
(business days): 09:00-17:00

1.4. Emergency telephone number

The Netherlands: Nationaal Vergiftings Informatie Centrum (NVIC): +31 (0) 30 247 88 88
United Kingdom: UWIC: +44 (0) 29 204 16388

SECTION 2: Hazards identification.

2.1. Classification of the substance or mixture

Classification in accordance with Regulation (EC)
no 1272/2008: Void.

2.2. Label elements

Pictogram: -
Signal word: -
Hazard statement: -
Precautionary statements: -

Hazard-determining components for
labelling: -

2.3. Other hazards: Void.

Results of PBT and vPvB assessment

PBT: No.
vPvB: No.

SECTION 3: Composition/information on ingredients.

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3.1. Substances	Not applicable.
3.2. Mixtures	
Chemical characterization:	Preparation based on, water, sodium chloride, natural vanilla, living and dead bacteria belonging to the lowest pathogenicity class.
(Hazardous) ingredients	
Sodium chloride	
CAS#:	7647-14-5
EC#:	231-598-3
Index#:	-
REACH reg.# (EC):	01-2119485491-33
Content (W/W):	< 1 %
Danger, 1272/2008/EC:	-
4-Hydroxy-3-methoxybenzaldehyde (natural vanillin)	
CAS#:	121-33-5
EC#:	204-465-2
Index#:	-
REACH reg.#:	01-2119516040-60
Content (W/W):	< 0.1 %
Danger, 1272/2008/EC:	Eye Irrit. 2; H319
Living bacteria and remains of dead bacteria	
CAS#:	-
EC#:	-
Index#:	-
REACH reg.#:	exempted
Content (W/W):	< 0.1 %
Danger, 1272/2008/EC:	-
Full text of H- and EUH-phrase(s), see section 16.	

SECTION 4: First aid measures.

4.1. Description of first aid measures

General information: If symptoms occur after exposure, always consult a physician and present this safety data sheet.

After inhalation: In case of complaints, take the victim to fresh air and let them rest.

After eye contact: Rinse with sufficient water; remove any contact lenses prior to rinsing, then immediately rinse the eyes with the eyelids open for a sufficient period of time using (lukewarm) water. Do not use any neutralising agent. Help the victim with the rinsing process.

After skin contact: Remove contaminated clothes and rinse skin thoroughly with water.

After ingestion: Never give anything to drink (or eat) to an unconscious person. Rinse mouth with water.

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

General: To the best of our knowledge, the chemical, physical and toxicological properties of all components have not been thoroughly investigated. The acute consequences of exposure are estimated as "limited".

After inhalation: Not relevant under normal temperature conditions.

After skin contact: Repeated and prolonged contact may cause redness and irritation. The product contains a small amount of a substance (sodium chloride) that can cause an allergic reaction in people who are sensitive to it.

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After eye contact:	If the liquid enters the eyes, it may cause slight irritation.
After ingestion:	No harmful effects are expected with quantities that could be accidentally swallowed.
4.3. Indication of any immediate medical attention and special treatment needed	
Further medical treatment:	Symptomatic treatment and supportive therapy as prescribed.

SECTION 5: Firefighting measures.

5.1. Extinguishing media

Suitable extinguishing media: CO₂, foam, dry powder for a small fire. In case of a major fire, spray water.
Foam.
Sand.
Adapt extinguishing measures to suit the environment.

Extinguishing media which must not be used for safety reasons: Powerful water jet.

5.2. Special hazards arising from the substance or mixture

If involved in a fire, it may emit noxious and toxic fumes.
In a fire, the following can be released in small quantities: hydrogen chloride gas, sodium oxides.

5.3. Advice for firefighters

Special protective clothing: No specific requirements.
Additional information: No specific requirements.

SECTION 6: Accidental release measures.

6.1. Personal precautions, protective equipment and emergency procedures

People dealing with major spillages should wear personal protective clothing. Evacuate the danger zone. Avoid contact with eyes and prolonged skin contact.

6.2. Environmental precautions

Do not discharge as a concentrate into drains, sewers or surface water.
Construct a dike to prevent spreading.

6.3. Methods and material for containment and cleaning up

Contain spill with sand, ground or other absorption material.

6.4. Reference to other sections

Information regarding disposal - see section 13.

SECTION 7: Handling and storage.

7.1. Precautions for safe handling

Handling: When handling, observe the usual precautionary measures for chemicals.
Avoid spillage, prolonged skin contact and eye contact. When using, do not eat or drink.

Information regarding fire and

explosion risk: No specific requirements.

7.2. Conditions for safe storage, including any incompatibilities

Storage: Store in tightly closed original container.
Requirements regarding storage area

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and tanks:	Packaging material, suitable: Original packaging, plastic.
	Packaging material, unsuitable: Iron.
Information about storage in one common storage facility:	No specific requirements.
Other information regarding storage requirements:	Preferably store at room temperature, 5 - 45 °C.
7.3. Specific end use(s)	No further relevant information available.

SECTION 8: Exposure controls/personal protection.

8.1. Control parameters.

Exposure limit values.

Hazardous ingredients with DN(M)EL:				
Product information:	Exposure	Value	Unit	Population / Effects
Sodium chloride CAS#: 7647-14-5				
DN(M)EL	Short-term dermal	-	µg/cm ²	Workers Local
DN(M)EL	Short-term inhalation	-	mg/m ³	Workers Local
DN(M)EL	Short-term dermal	295.52	mg/kg bw/day	Workers Systemic
DN(M)EL	Short-term inhalation	2068.62	mg/m ³	Workers Systemic
DN(M)EL	Long-term dermal	295.52	mg/kg bw/day	Workers Systemic
DN(M)EL	Long-term inhalation	2068.62	mg/m ³	Workers Systemic
DN(M)EL	Long-term dermal	-	µg/cm ²	Workers Local
DN(M)EL	Long-term inhalation	-	mg/m ³	Workers Local
DN(M)EL	Short-term dermal	-	µg/cm ²	General population Local
DN(M)EL	Short-term inhalation	-	mg/m ³	General population Local
DN(M)EL	Short-term dermal	126.55	mg/kg bw/day	General population Systemic
DN(M)EL	Short-term inhalation	443.28	mg/m ³	General population Systemic
DN(M)EL	Short-term oral	-	mg/kg bw/day	General population Systemic
DN(M)EL	Long-term dermal	126.55	mg/kg bw/day	General population Systemic
DN(M)EL	Long-term inhalation	443.28	mg/m ³	General population Systemic
DN(M)EL	Long-term oral	-	mg/kg bw/day	General population Systemic
DN(M)EL	Long-term dermal	-	µg/cm ²	General population Local
DN(M)EL	Long-term inhalation	-	mg/m ³	General population Local
DN(M)EL	Long-term oral	-	mg/kg bw/day	General population Local

Hazardous ingredients with DN(M)EL:				
Product information:	Exposure	Value	Unit	Population / Effects

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4-Hydroxy-3-methoxybenzaldehyde CAS#: 121-33-5				
DN(M)EL	Short-term dermal	-	µg/cm ²	Workers Local
DN(M)EL	Short-term inhalation	10	mg/m ³	Workers Local
DN(M)EL	Short-term dermal	-	mg/kg bw/day	Workers Systemic
DN(M)EL	Short-term inhalation	-	mg/m ³	Workers Systemic
DN(M)EL	Long-term dermal	-	mg/kg bw/day	Workers Systemic
DN(M)EL	Long-term inhalation	-	mg/m ³	Workers Systemic
DN(M)EL	Long-term dermal	-	µg/cm ²	Workers Local
DN(M)EL	Long-term inhalation	-	mg/m ³	Workers Local
DN(M)EL	Short-term dermal	-	µg/cm ²	General population Local
DN(M)EL	Short-term inhalation	-	mg/m ³	General population Local
DN(M)EL	Short-term dermal	-	mg/kg bw/day	General population Systemic
DN(M)EL	Short-term inhalation	-	mg/m ³	General population Systemic
DN(M)EL	Short-term oral	10	mg/kg bw/day	General population Systemic
DN(M)EL	Long-term dermal	-	mg/kg bw/day	General population Systemic
DN(M)EL	Long-term inhalation	-	mg/m ³	General population Systemic
DN(M)EL	Long-term oral	-	mg/kg bw/day	General population Systemic
DN(M)EL	Long-term dermal	-	µg/cm ²	General population Local
DN(M)EL	Long-term inhalation	-	mg/m ³	General population Local
DN(M)EL	Long-term oral	-	mg/kg bw/day	General population Local

Hazardous ingredients with PNEC:

Product information:	Value	Unit	Compartment
Sodium chloride CAS#: 7647-14-5			
PNEC	5	mg/l	Fresh water
PNEC	-	mg/l	Marine water
PNEC	19	mg/l	Intermittent releases
PNEC	500	mg/l	STP (sewage treatment plant)
PNEC	-	mg/kg dwt	Sediment fresh water
PNEC	-	mg/kg dwt	Sediment marine water
PNEC	-	-	Air
PNEC	4.86	mg/kg wwt	Soil
PNEC	No bioaccumulation potential	mg/l	Oral

Hazardous ingredients with PNEC:

Product information:	Value	Unit	Compartment
4-Hydroxy-3-methoxybenzaldehyde CAS#: 121-33-5			

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PNEC	0.118	mg/l	Fresh water
PNEC	0.0118	mg/l	Marine water
PNEC	-	mg/l	Intermittent releases
PNEC	10	mg/l	STP (sewage treatment plant)
PNEC	58.22	mg/kg dwt	Sediment fresh water
PNEC	5.822	mg/kg dwt	Sediment marine water
PNEC	-	-	Air
PNEC	11.54	mg/kg wwt	Soil
PNEC	No bioaccumulation potential	mg/l	Oral

8.2. Exposure controls

Personal protective equipment:

Do not smoke, eat or drink whilst working. Preferably, use in a well-ventilated area.

Respiratory protection:

No specific precautions.

Skin and body:

Wear suitable protective work clothing (in case of splash risk).
Remove contaminated clothing immediately.

Hands:



Wash hands well with water and soap before breaks and at the end of work. Wear protective gloves if there is a risk of skin contact, and for prolonged or repeated handling, preferably use (disposable) gloves (EN 374): butyl rubber, nitrile rubber (0.08 mm), PVC.

Eyes:



Use safety eyewear (EN 166) in case of a risk of splashes.

Environmental exposure controls:

Leakage of the material and concentrated solution must be stopped.

SECTION 9: Physical and chemical properties.

9.1. Information on basic physical and chemical properties

General information

Appearance

Form:	Liquid.
Colour:	Transparent.
Odour:	Odourless.
Odour threshold:	Not determined.
pH-value:	App. 7.
Change in condition	
Melting point/freezing point:	App. 0 °C.
Initial boiling point and boiling range:	App. 100 °C.
Flash point:	> 93 °C.
Flammability (solid, gas):	Not applicable.
Upper/lower flammability or explosive limits:	Not applicable.
Vapour pressure:	App. 0.00234 MPa (at 20 °C).
Relative density:	1.01 (water = 1).
Vapour density:	Not determined.
Evaporation rate:	Not determined.
Solubility in/miscibility with water:	Fully.
Partition coefficient	
n-octanol/water:	Not determined.
Auto-ignition temperature:	Not determined.
Decomposition temperature:	Not determined.

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Viscosity:	Not determined.
Explosive properties:	Not determined.
Oxidising properties:	Not determined.
9.2. Other information	No further relevant information available.

SECTION 10: Stability and reactivity.

10.1. Reactivity	Stable at room temperature.
10.2. Chemical stability:	The product is stable if stored and handled as prescribed.
Thermal decomposition/ conditions to be avoided:	The product is stable if used as prescribed. Avoid storing at high temperatures (> 45°C) to prevent degradation of the material or pressure build-up. Avoid low temperatures (< 5 °C).
10.3. Possibility of hazardous reactions	No data available.
10.4. Conditions to avoid	See temperature requirements.
10.5. Incompatible materials	Product contains micro-organisms, mixing or contamination leads to deterioration.
10.6. Hazardous decomposition products	No dangerous decomposition products are formed under normal storage conditions. Extreme heating or burning may cause irritating or toxic fumes such as hydrogen chloride gas and sodium oxides.

SECTION 11: Toxicological information.

11.1. Toxicology information

Acute toxicity from the components:

LD/LC50 values relevant for classification:		
Product information:	Sodium chloride CAS#: 7647-14-5	
Oral:	LD50	3550 mg/kg (rat)
Inhalation:	LC50 (1 h)	> 42 mg/l (rat)
Dermal:	LD50	> 10000 mg/kg (rabbit)
Product information:	4-Hydroxy-3-methoxybenzaldehyde CAS#: 121-33-5	
Oral:	LD50	3978 mg/kg (rat) (EU Method B.1)
Inhalation:	LC50 (4 h)	> 41.7 mg/m ³ (rat)
Dermal:	LD50	> 2000 mg/kg (rat) (OECD 402)

The following health risk assessment is based on an assessment of the various ingredients in the product.

Primary irritant effect:

on the skin: Limited irritant for the skin and the mucous membranes.
on the eye: Slightly irritating effect.

Germ cell mutagenicity: Not classified.

Reproductive and developmental

toxicity: Not classified.

Sensitisation: No sensitizing effects known for intended use.

CMR effects (carcinogenicity, mutagenicity and toxicity for

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reproduction):	Not classified.
Other information:	No further relevant information available.

SECTION 12: Ecological information.

12.1. Information on toxicological effects

Ecotoxicity from the components:

Aquatic toxicity:		
Product information:	Sodium chloride CAS#: 7647-14-5	
Fish	LC50 (96 h)	5840 mg/l (lepomis macrochirus)
Water flea	EC50 (48 h)	8740 mg/l (daphnia magna)
Algae	EC50 (120 h)	2430 mg/l (pseudokirchnerella subcapitata) (OECD 201)
Bacteria	IC50 (96 h)	6870 mg/l (lemna minor) (OECD 221)
Product information:	4-Hydroxy-3-methoxybenzaldehyde CAS#: 121-33-5	
Fish	LC50 (96 h)	123 mg/l (OECD 203)
Water flea	EC50 (48 h)	36,79 mg/l (daphnia magna) (OECD 202)
Algae	EC50 (72 h)	120 mg/l (pseudokirchnerella subcapitata) (OECD 201)
Bacteria	EC50	-

The following ecological risk assessment is based on an assessment of the various ingredients in the product.

12.2. Persistence and degradability

Fully biodegradable from the components.

12.3. Bioaccumulative potential

Bioaccumulation in organisms is not expected.

12.4. Mobility in soil

The product is soluble in water and can spread in water systems.

Further ecological information

General information: Water hazard class NWG (German regulation) (Self-assessment): not hazardous to water.
Do not discharge undiluted product into groundwater, surface water or sewage system.

12.5. Results of PBT and vPvB assessment

The mixture does not meet all of the assessment criteria for persistence, bioaccumulation and toxicity and hence is not considered to be PBT or vPvB.

12.6. Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations.

13.1. Waste treatment methods

Recommendation: Can be taken to a controlled incineration plant or discharged via the sewer in compliance with the regulations of the local authorities.

EC Regulation for Disposal of Waste (EWC):

16 10 02 WASTES FROM INORGANIC CHEMICAL PROCESSES, wastes from the MFSU of nitrogen chemicals, nitrogen chemical processes and fertiliser manufacture; waste containing dangerous substances.

Uncleaned packaging

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Recommendation:	Disposal must be made according to official regulations. Empty the packaging with care. Do not contaminate soil, water or environment with the waste container. Comply with local regulations with regard to the recovery or disposal of waste.
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SECTION 14: Transport information.

Land transport ADR/RID (cross-border)

ADR/GGVSEB class: Not a dangerous good according to the transport regulations.
Hazard identification number: -
UN number: -
Packing group: -
Label: -
Special marking: -
UN proper shipping name: -
Tunnel restriction code: -

Inland shipping ADN/ADR

ADN/R-class: -
UN number: -
Subsidiary risk
Environmental hazards: -
CMR properties: -
Buoyancy: -

Maritime transport IMDG

IMDG-class: -
UN number: -
Label: -
Packing group: -
EMS number: -
Marine pollutant: -
Proper shipping name: -

Air transport ICAO-TI and IATA-DGR

ICAO/IATA class: -
UN number: -
Label: -
Packing group: -
Proper shipping name: -

14.1. UN number -

14.2. UN proper shipping name -

14.3. Transport hazard class(es) -

14.4. Packing group -

14.5. Environmental hazards
No.

14.6. Special precautions for user
None.

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14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
No further relevant information available.

SECTION 15: Regulatory information.

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

EU regulations and directives which affect this mixture (not yet directly or indirectly mentioned):

Directive 89/686/EEC	Personal protective equipment (< 21.04.2023).
Directive 98/24/EC	Risks related to chemical agents at work.
Decision 2000/532/EC	Concerning a list of hazardous waste.
Regulation (EC) No 2008/1272	On classification, labelling and packaging of substances and mixtures.
Regulation (EU) 2015/830	Commission regulation of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
Regulation (EU) 2016/425	On personal protective equipment.

15.2. Chemical safety assessment

A chemical safety assessment of the mixture has not been carried out.

SECTION 16: Other information.

List of relevant H- and EUH-phrases from sections 2 and 3:

H319 - Causes serious eye irritation.
Eye Irrit. - Serious eye irritation.

History:	Date of printing:	23 November 2023.
	Date of previous issue:	Version 1.0, 14 April 2009.
	Version:	2.0.
	Changes:	Update to legislation.

Classification according to Regulation
(EC) No 1272/2008: -

Information source: -

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the product's properties. In all cases, it is the responsibility of the user to determine the applicability of such information and recommendations and the suitability of any products for its own particular purpose.

Safety data sheet according regulation (EC) No 1907/2006 of the European parliament and of the council from 18 December 2006 concerning the registration, evaluation, authorisation and restriction of chemicals (REACH).

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)
RID:	Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG:	International Maritime Code for Dangerous Goods
IATA:	International Air Transport Association
IATA-DGR:	Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO:	International Civil Aviation Organization

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ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO)
P:	Marine Pollutant
GHS:	Globally Harmonized System of Classification and Labelling of Chemicals
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
EC50:	Half maximal effective concentration
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent
OEL:	Occupational Exposure Limit
NOEC:	No Observed Effect Concentration
vPvB:	Very Persistent and Very Bioaccumulative
PBT:	Persistent, Bioaccumulative and Toxic substance
EWC:	European Waste Catalogue
TWA:	Time-Weighted Average
DNEL:	Derived No-Effect Level
DMEL:	Derived Minimal Effect Level
PNEC:	Predicted No-Effect Concentration

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