

Material safety data sheet
per appendix II REACH-regulation No. 1907/2006 Trade
name: Aqua Power I Drinking water, component A

Aqua Power
Daniel BADER

Created on:
07/11/2017

1 Designation of the substance or the mixture and the company

1.1 Trade name:

Aqua Power I Drinking water, component A

BfR-Reg.-No. 6467638

BAuA-Reg.-No.: N-74455

For product type 2 Disinfecting agent for private use and the area of public health and other biocide products)

For product type 3 (Biocide product for hygiene in the area of veterinary care)

For product type 4 (Disinfection agent in the area of foods and feed)

For product type 5 (Drinking water disinfection agent)

For product type 11 (Preservative for liquids in cooling and procedural systems)

For product type 12 (slimicides)

1.2 Substance uses:

Component to produce chlorine dioxide solution; together with component B

1.3. Manufacturer

Daniel Bader

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Competent person:

Daniel Bader

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1.3 Emergency number

Poison Information Centre for

Health, Austria GmbH

Stubenring 6

A-1010 Vienna

Tel. No. +43 1 406 43 43

2 Possible hazards

2.1 Mixture classification_

according to regulation (EU) 1272/2008 Not dangerous

2.2 Labelling elements_

according to regulation (EU) 1272/2008

Signal word: **No signal word**

H-sentences:

EUH210: Material safety data sheet obtainable upon request.

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Special labelling

Use biocide products carefully. Always read label and product information before use.

3. Composition of the mixture

3.1 Substances

This product is a mixture

3.2 Mixture

Hazardous contents:

Sodium chlorite < 4%

Acute Tox. 4 (acute oral toxicity, category 4, H302)

Eye dam. 1 (Severe eye injury/irritation, category 1, H318)

STOT RE. 2 * (specific target organ toxicity (repeated exposure), category 2, H373)

Ox. Liq. 1 (oxidising liquids, category 1, H271)

EUH032 ([EU-leftover R32 - additional labelling, not a component of the classification], EUH032)

EU number: 231-836-6
CAS number: 7758-19-2
REACH number. 01-2119529240-51

4. First aid measures

4.1 Description of first aid measures

General information:

Immediately remove clothing contaminated with product

After inhaling:

Provide fresh air. Provide oxygen in case of breathing difficulties, possibly enact rescue breathing. Call a physician immediately.

Following contact with skin:

Wash with water immediately.

For sustained skin irritation seek a physician.

Following eye contact:

Use both hands to open eye wide and flush intensely for at least 15 minutes with flowing water. Call an ophthalmologist immediately.

After swallowing:

Rinse mouth and permit victim to drink a glass of water. Do not induce vomiting.

Call a physician immediately and present the packaging or label.

4.2 Most significant symptoms and effects appearing acutely and delayed

Corrosive effect on skin and mucous membranes

5 Measures to fight fire

5.1 Extinguishing agents

Suitable extinguishing agents

Attune extinguishing actions to the surroundings.

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Unsuited extinguishing agents for reasons of safety
Full stream of water

5.2 Hazards deriving in particular from the mixture

The substance is not flammable.

5.3 Measures to fight fire

Wear breathing apparatus.
Wear self-contained breathing apparatus.
Wear complete protective suit.

6 Measures upon unintentional release

6.1 Person-related safety precautions

Wear protective equipment. Keep unprotected persons away.
Provide adequate ventilation.

6.2 Environmental measures

Prevent from reaching the sewer/surface water/ground water.

6.3 Methods and materials for retention and cleaning

Absorb with liquid-binding material (sand, diatomaceous earth, acid binders, universal binders, sawdust).

7 Handling and storage

7.1 Protective measures for safe handling

Handling per laboratory guidelines of BG-Chemie,
Keep ignition sources away – No smoking.
Keep away from flammable substances.
Keep away from reducing agents.

7.2 Conditions for safe storage while considering incompatibilities

Store in cool, dark place.
Do not store together with acids.
Do not store together with reducing agents.
Store separate from foods.
Store separate from flammable substances.
Keep from heat and direct sunlight.
Storage class 12 non-flammable liquids (TRGS 510, storage of hazardous substances in portable containers)

7.3 Specific end uses

This product serves as component A to produce a < 0.3% chlorine dioxide solution, together with component B.

8 Limiting and monitoring exposure /personal protective equipment

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General protection and hygiene measures:

Keep away from foods, beverages and feed.
Remove contaminated, soaked clothing immediately.
Wash hands during breaks and at the end of work.
Avoid contact with eyes and skin.

Personal protective equipment:

Hand protection: Chemical resistant protective gloves (EN 374)



Glove material: PVC (polyvinyl chloride), PE (polyethylene).

The selection of a suitable glove depends not only on the material, but also on other quality features and differs from manufacturer to manufacturer.

Because the product represents a preparation comprising a number of materials, the durability of the glove materials cannot be determined in advance and must therefore be tested before use.

Penetration time for the glove material: The exact penetration time is to be provided by the glove manufacturer and complied with.

Eye protection: Tightly sealing safety glasses



Bodily protection: Protective work clothes

8.1 Parameters to be monitored

The product contains no relevant quantities of substances with workplace related limit values that are to be monitored.

9 Physical-chemical properties

9.1 Information on the basic physical and chemical properties

Form:	liquid
Colour:	colourless to light yellow
Odour:	chlorine-like

Melting point/melting range: boiling range not determined	Boiling point / 100 °C
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9.2 Other information

Flash point:	not applicable
Self-flammability	The product is not self-ignitable
Danger of explosion:	The product is not explosive.

Density:	1.0 g/cm ³
Solubility in water:	soluble in water

pH-value at 20 °C	8
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10 Stability and reactivity

10.1 Reactivity

Reacts with acids while forming chlorine dioxide (ClO₂).

10.2 Chemical stability

Stable under indicated storage conditions.

10.3 Possibility of dangerous reactions

Store at temperatures below 50 °C.

10.4 Conditions to be avoided

Acids (formation of chlorine dioxide)

10.5 Incompatible materials

Flammable substances, metal powder, zinc, acids, reducing agents, phosphorus, sulphur compounds, ammonia.

10.6 Dangerous decomposition products

Chlorine compounds

11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

Classification-relevant LD/LC50 values:

Components that can contribute to acute oral toxicity.

Sodium chlorite (< 4%), LD 50 (oral): ATE 100 mg/kg

Estimated value for acute toxicity ATE (mix): 14285 mg/kg

components that can contribute to acute oral toxicity.

Sodium chlorite (< 4%), LD 50 (dermal): ATE 300 mg/kg

Estimated value for acute dermal toxicity ATE (mix): 42857 mg/kg

Relevant contents with corrosive/irritant effect:

- Sodium chlorite (< 4%) not additive, classification of the substance: Category 1B
SCL: Category 1B: 5% (general limit value) category 1C: 5% (general limit value)
category 2: 10% (general limit value)
- This component was classified as non-relevant.

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Severe eye injury/irritation

Skin-corrosive substances of category 1B also give rise to severe eye injury.

Sensitisation:

No sensitisation effect known.

Additional toxicological indications:

After swallowing, irritation of the mouth, throat, oesophagus and gastro-intestinal tract. Danger of perforation.

12 Environmental information

12.1 Toxicity

The mixture is not classified in the danger class of "hazardous to the aquatic environment."

13 Instructions for disposal

13.1 Procedure for waste handling

Product:

Recommendation: Disposal is regulated differently in countries and communities, therefore the type of disposal is to be queried at the local authorities (city offices).

Unpurified packaging:

Recommendation: Disposal per official regulations.

14 Information on transport

No dangerous substance in the sense of this transportation provisions

14.1 UN number

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14.2 Regular UN shipping designation

ADR/RID

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IMDG-Code / ICAO-TI / IATA-DGR

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14.3 Transport hazard classes

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14.4 Packaging group

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14.5 Environmental hazards

Marine pollutant: no

14.6 Particular indications for precautions for the user

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15 Legal regulations

15.1 Regulations as to safety, health and environmental protection/ specific legal requirements for the substance or mixture

National requirements:

Instructions on employment restriction:

Note employment restrictions for youths per § 22 JArbSchG.

Note employment restrictions for expectant or nursing mothers (MuSchRiV).

Hazardous incident ordinance: Appendix I, No. 2

16 Other information

Legend:

ADR	European agreement on the international carriage of hazardous goods on roads
CAS	Chemical Abstracts Service
EU	European Union
IATA-DGR	International Air Transport Association-Dangerous Goods Regulations
ICAO-TI	International Civil Aviation Organization-Technical Instructions
IMDG-Code	International Maritime Code for Dangerous Goods
IUCLID	International Uniform Chemical Information Database
LC	Lethal concentration
LD	Lethal dose
RID	Provision for international train carriage of hazardous goods TRGS
	Technical regulations for hazardous substances
WHC	Water hazard class

The information given is based on the current state of our knowledge, but it does not represent any certainty as to product properties and does not justify any contractual, legal relationship.