

Safety Data Sheet

According to Annex II REACH Regulation No. 1907/2006

Trade name: Aqua Power II process water

Aqua Power
Daniel BADER

Created on: 15.11.2017

Version 1.4

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

1.1 Trade name:

Aqua Power II process water

1.2 Uses of the substance:

Disinfectant, biocide

1.3. Manufacturer

Daniel Bader

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A-8435 Wagner

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Qualified Person:

office@bader-group.eu

1.4 EMERGENCY TELEPHONE NUMBER:

Vergiftungsinformationszentrale der

Gesundheit Österreich GmbH

Stubenring 6

A-1010 Wien

Phone: +43 1 406 43 43

BfR registry No.:6467637

BAuA registry No. N-74454

Für Produktart 2 (Disinfectants and algacides not intended for direct application to humans or animals)

Für Produktart 3 (Veterinary hygiene)

Für Produktart 4 (Food and feed area)

Für Produktart 5 (Drinking water)

Für Produktart 11 (Preservatives for liquid-cooling and processing systems)

Für Produktart 12 (Slimecides)

2 Hazards identification

2.1 Classification of the mixture

According to Regulation (EC) 1272/2008

Ox. Liq. 2 H272

Met. Corr. 1 H290

Skin Corr. 1B H314

Aquatic Acute 1 H400

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GHS03



GHS05



GHS09



Signal word: Danger

Hazard statements

H272: May intensify fire; oxidizer
H290: May be corrosive to metals
H314: Causes severe skin burns and eye damage
H400: Very toxic to aquatic life
EUH031: Contact with acids liberates toxic gas

Precautionary statements

P220: Keep/Store away from clothing/acids/combustible materials
P221: Take any precaution to avoid mixing with combustibles.
P260: Do not breathe dust/fumes/gas/mist/vapours/spray.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P102: Keep out of reach of children.

3. Composition of the mixture

Chemical characterization: Oxidizing liquid preparation mixture
Description: Chloroxides

Hazardous ingredients:

Stoffname	Content %	EG-No.:	CAS	Index-No.:
substance name	>10 - <25 %	233-162-8	10049-04-4	017-026-01-0

4. First-aid measures

4.1 Description of the first aid measures

General information:

Take affected persons out of danger area and instruct to lie down.
In case of unconsciousness bring patient into stable side position for transport.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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After inhalation:

Supply fresh air; consult doctor in case of symptoms.

After skin contact:

Wash skin with water using soap if available. If persistent irritation occurs, obtain medical attention. Change with product contaminated clothing immediately.

After eye contact:

Rinse immediately opened eye for several minutes under running water. Then consult doctor.

After swallowing:

Rinse out mouth and then drink plenty of water. Do not induce vomiting; instantly call for medical help.

5 Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, foam

Adjust the fire fighting measures to the surroundings.

Extinguishing media which must not be used for safety reasons:

Water jet

5.2 Special hazards arising from the mixture

Chlorine dioxide gas (ClO₂), chlorine (Cl₂), oxygen (O₂).

Risk of bursting due to high temperatures and pressure rise in the sealed container

5.3 Advice on fire fighting

Do not breathe fumes.

Wear self-contained breathing apparatus.

Full protective suit.

6 Accidental release measures

6.1 Personal precautions

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

6.2 Environmental protection measures

Do not empty into drains / surface water / ground water.

6.3 Methods and material for containment and cleaning up

Block larger quantities and pump into a PE container.

Smaller quantities should be diluted with water and absorbed with liquid-binding material (sand, gravel, Diatomaceous earth or universal binder).

7 Handling and storage

7.1 Precautions for safe handling

Protect from heat and direct sunlight.

Keep container tightly closed

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7.2 Conditions for safe storage, including any incompatibilities

Store in a cool and dry place.
Do not store together with acids.
Store away from foodstuffs.
Store away from combustible materials.
Protect from heat and direct sunlight.
Keep away from sources of ignition.
Storage class: 5.1B Oxidizing hazardous substances (TRGS 510, storage of hazardous substances in transportable containers)

8 Exposure controls / personal protection equipment

General protective and hygienic measures:

Keep away from food, drink and animal feed.
Take off dirty, soaked clothes immediately.
Wash hands before breaks and after work.
Avoid contact with eyes and skin.

Personal protective equipment:

Hand protection: Protective gloves



Hand protection: Gloves: PVC (polyvinyl chloride), PE (polyethylene).

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

Since the product is a preparation of several substances, the resistance of glove material is not predictable and must therefore be prior to use Be checked.

Penetration time of the glove material: The exact break-through time has to be found out by the manufacturer of the protective glove.

Eye protection: Tightly sealed goggles



Body protection: Protective clothing

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Respiratory protection: Required when aerosol or fog is formed.

8.1 Parameters to be monitored

Workplace exposure limit for chlorine dioxide (CAS: 10049-04-4)
according to TRGS900: 0,1ml/m³ or 0,28mg/m³

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form: liquid
Color: yellowish
Odor: Slight odor

Freezing point: - 25 ° C
Boiling point: 105 ° C

9.2 Other information

Flash point: Not applicable
Flammability: not flammable
Risk of explosion: non-explosive

Steam pressure: 20 ° C approx. 14mbar
Relative density: 20 ° C 1,210 Kg / m³
Dynamic viscosity: 20 ° C 2.4 mPa * s
Solubility in water: completely
PH value at 20 ° C > 10

10 Stability and reactivity

10.1 Reactivity

No dangerous reactions under the specified storage conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Corrosive to metals.

Risk of fire with flammable substances when the water content is dried.

Contact with acids produces toxic gases.

10.4 Conditions to avoid

Heat and UV radiation

10.5 Incompatible materials

Combustible materials, metals, acids, reducing agents

10.6 Hazardous decomposition products

Chlorine compounds, chlorine dioxide

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11 Toxicological information

11.1 Information on toxicological effects

acute toxicity:

Classification-relevant LD / LC50 values:

Oral LD50: 7.603 mg / kg (rat)

Irritation:

Skin: Caustic effect on skin and mucous membranes.

Eye caustic effect. Conjunctivitis.

Respiratory tract: Irritation of upper respiratory tract.

12 Ecological information

12.1 Toxicity

ecotoxicity:

no information available

Mobility:

no information available

Persistence and degradability:

Is degraded in biological purification steps close to complete.

PBT:

no information available

General information

Water hazard class 2 (self-classification): hazardous for water

In waters also toxic to fish and plankton

13 Disposal considerations

13.1 Waste treatment methods

Product:

Recommendation: Must not be disposed together with household garbage. Do not empty into drains.

Disposal is regulated differently in countries and municipalities, so the type of disposal is to be requested from the local authorities (town hall).

European Waste List:

15 00 00 Packing waste, absorbent materials, wipes, filter materials and protective clothing (a.n.g.).

15 01 00 Packaging (including separately collected municipal packaging waste).

06 00 00 Wastes from inorganic chemical processes.

06 13 00 Wastes from inorganic chemical processes a. N.

06 13 01 inorganic plant protection products, wood preservatives and other biocides

Uncleaned packaging:

Are to be disposed of as containers with harmful residues.

15 01 10 (packaging containing residues of or contaminated by dangerous substances)

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Purified packaging:

Can be recycled.
Recommended cleansing agents: water

14 Transport information

14.1 UN number

3098

14.2 UN proper shipping name

ADR/RID

3098 Oxidizing liquid, corrosive, n.o.s. (chlorine oxide)
Transport category 2
Class: 5.1 (OC1)

IMDG-Code / ICAO-TI / IATA-DGR

Oxidizing Liquid, corrosive. n.o.s. (chlorine oxide)
EMS-Nummer: F-A, S-Q

14.3 Hazard statements

5.1 + (8) + environmentally hazardous substance



14.4 Packing group

Packing group: II (medium hazard)

14.5 Environmental hazards

Marine pollutant: no

14.6 Tunnel restrictions

Passage prohibited by tunnel of category E.

14.5 Other applicable information

Special provisions: 274

15 Regulations

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

National rules:

Water hazard class: WGK 2 (self-leveling): hazardous to water.
Chemical Safety Assessment: has not been carried out.

Special marking

Use biocides safely. Always read the labelling and the product information before use.

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16 Other information

Do not mix Aqua Power II process water with other products.

All parts coming into contact with Aqua Power II process water must be made of alkali- and oxidation-resistant material.

Legend:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

CAS: Chemical Abstracts Service

EC: European Community

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: Letale concentration

LD: Letale dose

RID: Regulations for the International Rail Transport of Dangerous Goods

TRGS: Technical Rules for Hazardous Substances

WGK: water hazard class

This information is based on our present knowledge. However, this information does not constitute an assurance of product characteristics and does not constitute a contractual legal relationship.