

Product

AQUAREDOX**METAL ORGANIC FRAMEWORKS BASED ADSORBER**

Version: 1.0
Printing Date: 31.03.2025
Language: EN

Watch-Water® encourages and expects you to read and understand the entire MSDS, as there is important information throughout the document. We expect you to follow the precautionary measures identified in this document unless your use conditions necessitate other appropriate methods or actions.

1	IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
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Product Name:**AQUAREDOX****Application:**

Water Treatment, Wastewater, Industrial

Company Identification/Supplier

Watch Water GmbH
Fahrlachstr. 14
D-68165 Mannheim
Germany
Phone: + 49 62187951-0
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Emergency Number (European) (24/7)

112

Emergency Number (Company) (08:00-16:45)

Phone: +49 621 87951-50

2	HAZARDS IDENTIFICATION
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CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

In accordance with Regulation (EC) No 1272/2008:
Aquatic Chronic 2 : Toxic to aquatic life with long lasting effects.

LABEL ELEMENTSPictograms:Hazard statements:

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements – Prevention:

P273 Avoid release to the environment.
P391 Collect spillage.
P501 Dispose of contents/container to &

OTHER HAZARDS

The mixture does not contain substances classified as PBT.
The mixture does not contain substances classified as vPvB.
The mixture does not contain any endocrine disrupting properties substances.

In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment.

Material Safety Data Sheet

Product

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3 COMPOSITION / INFORMATION ON INGREDIENTS

Substance		Chemical Composition/Formula	Concentration (%)	Classification
GAC				
CAS No	7440-44-0	Catalytic Activated Carbon	85 - <90%	
Copper				
CAS No	7440-50-8	Copper	3.5 - <10%	Aquatic Chronic 2, H411
EC No	231-159-6			
Zinc				
CAS No	7440-66-6	Zinc	1.5 - <5%	Aquatic Acute 1, H400 – Aquatic Chronic 1, H410 - Pyr. Sol. 1, H250 - Water-react. 1, H260
EC No	231-175-3			

Amounts specified are typical and do not represent a specification. Remaining components are proprietary, non-hazardous and/or present at amounts below reportable limits.

4 FIRST-AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

General information:

First aid is not expected to be necessary if material is used under ordinary conditions and as intended.

Following inhalation:

- Remove person to fresh air and keep comfortable for breathing. Seek medical attention if adverse effects are observed.

Following skin contact:

- Change contaminated, saturated clothing.
- After contact with skin, wash immediately with plenty of water and soap. Get medical attention if skin irritation occurs.

Following eye contact:

- Remove contact lenses, if present and easy to do. Continue rinsing.
- Flush eyes with clean, lukewarm water Remove contacts. Get medical attention if irritation persists.

Following ingestion:

- Never give anything by mouth to an unconscious person or a person with cramps.
- IF SWALLOWED: Rinse mouth.
- Do NOT induce vomiting.
- If the victim is not breathing, perform cardiopulmonary resuscitation. Get medical attention.

Self-protection of the first aider:

- First aider: Pay attention to self-protection!

Notes for the doctor:

Treat symptomatically.

5 FIRE FIGHTING MEASURES

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- Not considered to be a fire hazard. However, the material contains carbon may increase the burning rate of combustibles
- **Ignition Temperature:** $\geq 350^{\circ}\text{C}$
- **Hazardous combustion products:** Material will burn in a fire, releasing combustion products of carbon monoxide and carbon dioxide.
- **General hazards:** Other material adsorbed onto the carbon may also be released.
- **Extinguishing media:** Foam preferable. Avoid methods which creates dust.
- **Firefighting equipment:** Self-contained breathing apparatus and full body protective clothing.

Unsuitable extinguishing media:

- None known

ADVICE FOR FIREFIGHTERS

- Wear a self-contained breathing apparatus and chemical protective clothing.
- Firefighters and other exposed, wear self-contained breathing apparatus and protective suit.

6 ACCIDENTAL RELEASE MEASURES**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

- Avoid skin or eye contact with spilled material.

ENVIRONMENTAL PRECAUTIONS

- Contain spill if it can be done with minimal risk. Prevent liquid from entering drains, sewers or waterways.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

- Treat the recovered material as prescribed in the section on waste disposal.
- Collect in closed and suitable containers for disposal.
- Clean contaminated objects and areas thoroughly observing environmental regulations.

7 HANDLING AND STORAGE**PRECAUTIONS FOR SAFE HANDLING**Handling:

- Normal chemical handling.
- Wash hands after handling.
- Keep away from foodstuffs, beverages and feed.
- Avoid contact with the eyes and skin.

Storage:

• Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Store in a cool, dry area. Keep container closed when not in use. Product or component is a powerful oxidizer, hence it should not be stored near organic matter or other strong reductive substances or incompatible materials such as hydrogen peroxide and sodium peroxide. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product

8 EXPOSURE CONTROL/ PERSONAL PROTECTION**EXPOSURE LIMIT**

None

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PERSONAL PROTECTIVE EQUIPMENT (PPE)

Eye/face protection:

- Wear Safety glasses with side-shields (frame goggles), where eye contact or dusty conditions may be likely.
- Have eye flushing equipment available

Skin protection:

- Chemicals resistant Protective gloves.
- Suitable material: latex, chloroprene, butyl rubber, nitril rubber, neoprene.
- Wear appropriate protective clothing. Avoid skin contact with the spilled product.

General protective and hygienic measures:

- Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.

Respiratory protection:

- Respiratory protection if dust is formed.
- In case of insufficient ventilation, use an appropriate approved particulate respirators (for example EN 143 or 149, type P2 or FFP2).

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Black granules
Odour	Odourless
Odour threshold	n/a
Granule size	0.6 - 2.4 mm
pH	6 - 7
Melting point/freezing point	n/a
Initial boiling point and boiling range	n/a
Flash point	n/a
Evaporation rate	Does not evaporate
Ignition Temperature:	≥ 350°C
Upper/lower flammability or explosive limits	n/a
Vapour pressure	n/a
Vapour density	n/a
Relative density	610-630 g/cm ³
Solubility	Non-soluble

10 STABILITY AND REACTIVITY

REACTIVITY

The product is stable and do not react under normal condition of use, handling and storage.

Thermal decomposition/conditions to be avoided: No decomposition if used according to specifications

CHEMICAL STABILITY

Stable at normal storage and use conditions.

CONDITIONS TO AVOID

Heat and ignition sources, strong oxidizers, strong acids and combustible materials.

Avoid storing at high temperatures or in direct sunlight.

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INCOMPATIBLE MATERIALS

No data available

HAZARDOUS DECOMPOSITION PRODUCTS

None

11 TOXICOLOGICAL INFORMATION**Information on toxicological effects**

Toxicity to Animals: Acute oral toxicity (LD50): 50000 mg/kg [Rat].

Chronic Effects on Humans: Not available.

Other Toxic Effects on Humans: Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

12 ECOLOGICAL INFORMATION**Toxicity**

Aquatic toxicity to fish:

- Presents no hazard to Aquatic life forms

Toxicity to aquatic plants:

- No further relevant information available

Bio-accumulative potential:

- Not applicable

Mobility in soil:

- No further relevant information available

Environmental data:

- Presents no hazard to the environment

Remark:

This product is not classified as dangerous for environment.

13 DISPOSAL CONSIDERATIONS**Product Disposal:**

- Dispose of waste in an approved waste disposal facility.
- In accordance with local and national regulations.

Advice on cleaning and disposal of packaging:

- Contained packaging should be completely emptied.
- After being properly cleaned, it can be reused.

14 TRANSPORT INFORMATION

- **Land transport ADR/RID and GGVS/GGVE:** Not classified as dangerous good under transport regulations.

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- **Sea transport IMDG:** Not classified as dangerous good under transport regulations.
- **Air transport IATA/ICAO:** Not classified as dangerous good under transport regulations.

HYDROSORB is not classified as a hazardous material by US DOT and is not regulated by the Transportation of Dangerous Goods (TDG) when shipped by any mode of transport.

15 REGULATORY INFORMATION**SAFETY, HEALTH, AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE**

Labelling according to EU guidelines:

Hazard Symbols: none

Labeling according to Regulation (EC) No 1272/2008

The substance does not require classification or labeling under the CLP regulation.

Not listed or not regulated by the following inventories: CDTA, Chemical Weapon Convention

16 OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product feature and shall not establish a legally valid contractual relationship.

ABBREVIATIONS AND ACRONYMS

- CAS: Chemical Abstract Service Number.
- IATA: International Air Transport Association.
- IMDG: International Maritime Dangerous Goods Code.
- DPD Dangerous Preparation Directive.
- UN number: United Nations number.
- No EC: European Commission Number.
- ADN/ADNR: Regulations concerning the transport of dangerous substances in barges on waterways.
- ADR/RID: European Agreement concerning the International Carriage of Dangerous Goods by Road/Regulations concerning the international carriage of dangerous goods by rail.
- CLP: Classification, labeling and packaging.
- VPvB: very persistent and very bio-accumulative substances.

DISCLAIMER

Watch Water® GmbH provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. This MSDS provides selected regulatory information on this product, including its components. This is not intended to include all regulations. It is the responsibility of the user to know and comply with all applicable regulations and laws relating to the product being used.

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