



BASED ON ADVANCED CATALYTIC OXIDATION

Version: 1.0 Printing Date: 08.05.2020

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 precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

1 CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Name: LEGIO-OXY

Application: For Legionella Treatment

Company Identification/Supplier Watch Water GmbH

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2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008

This product requires labelling or classification according to 2008/1272/EC

• Symbol:





Hazard statements:

H302 Harmful if swallowed.
H318 Causes serious eye damage.
H272 May intensify fire; oxidizer.

General Precaution Instructions:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking

P221 Take any precaution to avoid mixing with combustibles.

P280 Wear protective gloves/ protective clothing/ eye protection/ face

protection.

Safety instructions (recommendations):

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

+ P310 contact lenses, if present and easy to do. Continue rinsing. Immediately

call a POISON CENTER/doctor.

P370 + P378 In case of fire: Use water spray to extinguish.

Safety instructions (Storage)

Keep container tightly closed and in a well-ventilated place





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Other hazards

The product does not contain any components considered to be either persistent, bioaccumulative and toxic

Results of PBT and vPvB assessment

PBT: Not applicable.vPvB: Not applicable.

3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: solid mixture

Component, name	CAS-Nr.	Conc. (%)
Sodium	7440-23-5	18 - ≤ 23 %
proprietary	proprietary	< 75 %
Titanium Dioxide (Crystalline Powder)	12026-28-7	< 2%
proprietary	proprietary	< 5%

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

General Information:

Take off contaminated clothes. Wash immediately with plenty of water. Continue rinsing for at least 10 minutes. If any symptom persists, seek medical attention.

- **Eye contact**: Rinse immediately with plenty of running water. Continue for at least 15 minutes. Seek medical advice.
- **Skin contact**: Remove contaminated clothing. Wash immediately with plenty of water. Continue for at least 15 minutes. Obtain medical advice if there are persistent symptoms.
- **Inhalation**: Remove patient to fresh air, allow to rest and keep warm. In case of unconsciousness place patient stably in side position for transportation. Obtain medical advice.
- Ingestion: First rinse mouth with water. Immediately give 1-2 glasses of water, if victim is fully conscious. Seek medical attention.

Note to physician:

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5 | FIRE FIGHTING MEASURES

- Extinguishing media: Extinguish with water spray, Water
- Unsuitable extinguishing media: CO₂ (for safety reasons only)
- Exposure hazards: harmful gases
- Combustion products: carbon oxides, nitrogen oxides
- **Protective equipment:** Firefighters and other exposed, wear self-contained breathing apparatus and protective suit.

6 | ACCIDENTAL RELEASE MEASURES

- The product forms a slippery surface in contact with water.
- **Personal precautions:** Wear eye protection and protective clothing.
- **Environmental precautions:** Should not be released into the environment. Limited quantity. Flush into sewer with plenty of water.
- **Methods for cleaning up:** Vacuum or sweep up material and placed in a designated waste container. Avoid dust formation.
- **Disposal method**: The material be disposed in accordance with applicable local, state and federal regulations.



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7 HANDLING AND STORAGE

• **Handling:** Normal chemical handling. Dust mask should be used when large quantities are used in the absence of good local exhaust ventilation. Avoid the formation and deposition of dust. Take precautionary measures to avoid static charges. Wash hands after handling.

Storage:

Keep in properly labelled containers

Protect from sun. Store in a dry, cool place. Keep container sealed and dry.

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

• The relevant fire protection measures should be noted.

8 EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure limit: no specific value; the national exposure limit for dust should be observed. **Personal protective equipment:**

- 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).
- **Eye protection:** Safety glasses with side-shields (frame goggles). Where eye contact or dusty conditions may be likely, dust tight goggles are recommended.
- Hands: Chemicals resistant gloves (EN 374) Nitril, PVC or chloroprene protective gloves.
- **Skin protection:** 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.

PHYSICAL AND CHEMICAL PROPERTIES 9 **General Information: Physical State** solid, granulate White **Appearance** Odor odourless Hq 10.2 - 10.8 (10 q/l) Flash point: Not applicable **Melting Point/Freezing Point** Decomposes on heating **Bulk density:** ca. 990 - 1100 g/l Solubility in water at 20°C: 140 g/l (20 °C)

10 STABILITY AND REACTIVITY

- Thermal decomposition/conditions to be avoided: No decomposition if used according to specifications. Avoid storing at high temperatures or in direct sunlight. Decomposes when moist. Decomposes on heating.
- **Materials to avoid:** Water, Acids, Bases, Heavy metal salts, Reducing agents, Organic materials, Flammable materials, Combustible material
- Conditions to avoid: Exposure to moisture. To avoid thermal decomposition, do not overheat.
- Hazardous decomposition products: Oxygen

11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

Oral LD50 (oral, rat) >2000 mg/kg

Primary irritant effect:

Skin (rabbit): Non-irritant to skin and mucous membranes





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Eye (rabbit): Non-irritant

Sensitization: No sensitizing effects known

12 | ECOLOGICAL INFORMATION

Toxicity

Acute toxicity:

Acute oral toxicity:

LD50: 1,034 mg/kg - Rat, male and female

This product is classified as acute toxicity, category 4

Unpublished reports

Acute inhalation toxicity: no data available

Acute dermal toxicity

LD50: > 2,000 mg/kg - Rabbit, male and female

Not classified as hazardous for acute dermal toxicity according to GHS.

No mortality observed at this dose.

Toxicity to daphnia and other aquatic invertebrates:

EC50 - 48 h: 4.9 mg/l - Daphnia magna (Water flea)

semi-static test

Analytical monitoring: yes

Unpublished reports

Toxic to aquatic invertebrates.

• Toxicity to microorganisms

No data available

• Persistence and degradability:

> 70% DOC reduction (28d); readily biodegradable

• Bio-accumulative potential:

No bioaccumulation is to be expected, log P(o/w)<1

• Mobility in soil:

No further relevant information available.

Additional ecological information:

Do not release untreated into natural waters.

The product has not been tested. The statement has been derived from the properties of the individual components.

Results of PBT and vPvB assessment

PBT: Not applicable. **vPvB:** Not applicable.

13 DISPOSAL CONSIDERATIONS

Product disposal Recommendation: Dilute with plenty of water.

Dispose of wastes in an approved waste disposal facility.

Can be landfilled, when in compliance with local regulations.

In accordance with local and national regulations.

Recommendation: Disposal must be made according to official regulations.

14 | TRANSPORT INFORMATION

Land Transport (ADR/RID/ADN): Not classified as dangerous good under transport regulations

Sea Transport (IMDG/IMO): Not classified as dangerous good under transport regulations

Air Transport (IATA/ICAO): Not classified as dangerous good under transport regulations





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15 REGULATORY INFORMATION

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

Labelling according to Regulation (EC) No 1272/2008

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

National regulations:

Water hazard class (Germany): Water hazard class 1 (Anex 2 VwVwS): slightly hazardous for water.

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.

Disclaimer:

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