

# DYE OXY

## Strong Oxidant

 Version: 1.0  
 Printing Date: 15.07.2020

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:** DYE OXY

**Application:** Degradation Dye Pollutants

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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.  
 H314 Causes severe skin burns and eye damage  
 H412 May cause long lasting harmful effects to aquatic life.

- **General Precaution Instructions:**

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray  
 P262 Do not get in eyes, on skin, or on clothing.  
 P273 Avoid release to the environment  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

- **Safety instructions (recommendations):**

P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P308 + P313 IF exposed or concerned: Get medical advice/ attention  
 P315 Get immediate medical advice/attention

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P501

Dispose of contents/ container to an approved waste disposal plant.

- **Safety instructions (Storage)**  
 Keep container tightly closed and in a well-ventilated place

**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.
Potassium	7740-09-7	≤ 65
Hydrogen Peroxide	7722-84-1	≤ 25
Titansorb	12026-28-7	1
Sulfate Salt	7646-93-7	5 - 10
Proprietary	Proprietary	≤ 25

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, Alcohol-resistant foam, Carbon dioxide (CO<sub>2</sub>), Dry chemical
- **Unsuitable extinguishing media:** High volume water jet
- **Exposure hazards:** harmful gases
- **Combustion products:** Irritant, caustic, flammable, noxious/toxic gases and vapours can develop in the case of fire and decomposition
- **Protective equipment:** Firefighters and other exposed, wear self-contained breathing apparatus and protective suit.

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### 6 ACCIDENTAL RELEASE MEASURES

- The product forms a slippery surface in contact with water.
- **Personal precautions:** Wear eye protection and protective clothing. Avoid dust formation. Avoid breathing dust
- **Environmental precautions:** Keep out of drains and water courses.
- **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.

### 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.  
 Provide appropriate exhaust ventilation at places where dust is formed.  
 Provide sufficient air exchange and/or exhaust in work rooms.  
 Smoking, eating and drinking should be prohibited in the application area.
- **Storage:** Store in a dry place. Keep container sealed and dry. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- **Storage stability:** No decomposition if stored normally.
- 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 butyl-rubber 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.

### 9 PHYSICAL AND CHEMICAL PROPERTIES

General Information:	
<b>Physical State</b>	Solid granulate
<b>Appearance</b>	White
<b>Odour</b>	Weak, product specific
<b>Flash point:</b>	Not flammable, decomposes over 85°C
<b>Bulk density:</b>	ca. 1200 - 1400 kg/m <sup>3</sup>
<b>pH</b>	2.3 – 2.5 (1% Solution)

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### 10 STABILITY AND REACTIVITY

- **Reactivity and Chemical Stability:** Stable under recommended storage conditions
- **Thermal decomposition/conditions to be avoided:** No decomposition if used according to specifications. Avoid storing at high temperatures or in direct sunlight.
- **Materials to avoid:** Avoid moisture or impurities can noticeably reduce the self-accelerating decomposition temperature
- **Conditions to avoid:** No data available
- **Hazardous decomposition products:** In case of fire and decomposition Irritant, caustic, flammable, noxious/toxic gases and vapours can develop

### 11 TOXICOLOGICAL INFORMATION

#### Information on toxicological effects

##### Acute toxicity

##### Harmful if swallowed

Oral LD50 (oral, rat) 500 mg/kg  
 Method: OECD Test Guideline 423

##### Acute inhalation toxicity

LC0 (Rat): > 5 mg/l  
 Exposure time: 4 h  
 Test atmosphere: dust/mist  
 Method: OECD Test Guideline 403  
 Assessment: The substance or mixture has no acute inhalation toxicity  
 Remarks: Expert judgement

##### Acute dermal toxicity

LD50 (Rat): > 5.000 mg/kg  
 Method: OECD Test Guideline 402

#### Carcinogenicity

Not classified based on available information

#### Aspiration toxicity

Not classified based on available information.

#### Primary irritant effect:

Skin (rabbit): Irritant to skin and causes severe burn  
 Eye (rabbit): Irritant and Causes serious eye damage

### 12 ECOLOGICAL INFORMATION

#### Toxicity

- **Aquatic toxicity:**  
 Toxicity to fish: NOEC (Oncorhynchus mykiss (rainbow trout)): 0,5 mg/l  
 Exposure time: 96 h  
 Method: OECD Test Guideline 203  
  
 Toxicity to fish (Chronic toxicity): NOEC: 0,5 mg/l  
 Exposure time: 37 d
- **Toxicity to microorganisms:**  
 EC50 (Bacteria): 100 mg/l  
 Exposure time: 3 h

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Method: OECD Test Guideline 209

- **Ecotoxicology Assessment:**  
Chronic aquatic toxicity: Harmful to aquatic life with long lasting effects.
- **Persistence and degradability:**  
not applicable
- **Bio-accumulative potential:**  
Not applicable
- **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**  
**Assessment:** This substance/mixture contains no components considered to be either persistent, bio-accumulative, and toxic (PBT), or very persistent and very bio-accumulative (vPvB) at levels of 0.1% or higher.

### 13 DISPOSAL CONSIDERATIONS

- **Recommendation:** must not be disposed together with household solid waste. Do not allow product to reach sewage system. Dispose of wastes in an approved waste disposal facility.
- **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

### 15 REGULATORY INFORMATION

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	: Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable
Regulation (EC) No 850/2004 on persistent organic pollutants	: Not applicable
Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	: Not applicable
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations, and articles (Annex XVII)	: Not applicable
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	: Not applicable

#### National regulations:

Water hazard class (Germany): Water hazard class 1 (Anex 4 VwVwS): slightly hazardous for water.

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**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.
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