

Product
ADSORB^x
Adsorbent compound for RED-OXY Treatment

Version: 1.0
 Printing Date: 17.09.2015

Watch[®] 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: **ADSORB^x**

Application: Adsorbent compound for RED-OXY Treatment. pH adjustment. Water and wastewater treatment. Industrial water treatment.

Company Identification/Supplier Watch Water GmbH
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 Germany
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2 | HAZARDS IDENTIFICATION

Classification of the substance or mixture

- **Classification according to Regulation (EC) No. 1272/2008**
 This product requires labeling or classification according to 2008/1272/EC.
- **Classification according to Directives 67/548/EEC and 1999/45/EC**
 This product requires labeling or classification according to Directive 67/548/EEC or 1999/45/EC.

Labeling:

- **Labeling according to Regulation (EC) No 1272/2008**
 This product requires labeling according to 2008/1272/EC.
- **Labeling according to Directive 67/548/EEC or 1999/45/EC**
 This product requires labeling according to 67/548/EEC or 1999/45/EC



Xi: IRRITANT

Other hazards

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

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.	Classification	R-Phrase/Hazard	Conc.
proprietary	proprietary	none	R41,R38	80 - 85%
Sodium salt	497-19-8	none	R41,R38	~5%
proprietary	proprietary	none	none	10 - 15%

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

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- **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:** water for extinguishing agent.
- **Unsuitable extinguishing media:** CO₂ (for safety reasons only)
- **Exposure hazards:** harmful gases
- **Combustion products:** oxygen and carbon 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:** 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.
- **Storage:** Protect from sun. Store in a dry, cool place. Keep container sealed and dry.
- 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.

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ADSORB^x*Adsorbent compound for RED-OXY Treatment*Version: 1.0
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Appearance:	White granule
Odor:	Slight, product specific
Form:	Solid granules

Flash point:	Not flammable. Will not burn
Bulk density:	ca. 1050 - 1100 kg/m ³
pH	10.5 (in 1% solution)
Solubility in water:	150 g/L (@ 20°C) 175 g/L (@ 30°C)
Vapor Density (Air=1)	N/A
Percent volatility by volume	N/A
Freezing Point	N/A

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.
- **Materials to avoid:**
 - Water and other liquids (except for clean up).
 - Acids, bases, metallic salts, strong reducing agents.
 - Organic materials.
 - Flammable substances.
- **Conditions to avoid:** Heat, flame and other sources of ignition. Avoid contact with mineral acids, excessive heat and bases/alkalis.
- **Hazardous decomposition products:** None when used according to specifications

11 TOXICOLOGICAL INFORMATION**Information on toxicological effects****Acute toxicity**

Oral LD₅₀ (rat): >1050 mg/kg
 Dermal LD₅₀ (rabbit): > 2000 mg/kg
 Inhalation LD₅₀(rat): >4.58 mg/L

Primary irritant effect:

Irritation (rat): > 4580 mg/m³ (1 hour)
 Eye (rabbit): Risk of serious eye damage
 Skin (rabbit): > 2000 mg/kg

Mutagenicity:

Genotoxicity in vitro: In vitro tests did not show mutagenic effects
 Genotoxicity in vivo: no data available

Carcinogenicity:

Not classifiable as a human carcinogen. This product does not contain any ingredient designated as probable or suspected human carcinogens by: IARC and ACGIH

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- **Aquatic toxicity to fish:**
 - LC₅₀ Pimephales promelas: 75 mg/L (96 h)
 - NOEC Pimephales promelas: 7.4 mg/L (96 h)
- **Toxicity to daphnia**
 - EC50 Daphnia pulex: 5 mg/L (48 h)
 - NOEC Daphnia pulex: 2 mg/L (48 h)
- **Toxicity to aquatic plants:** No data available
- **Bio-accumulative potential:** Not applicable.
- **Mobility in soil:** No further relevant information available.
- **Additional ecological information:** Do not release untreated into natural waters.

13 DISPOSAL CONSIDERATIONS

- **Product Disposal**
 - Dispose of in an approved waste facility operated by an authorized contractor in compliance with relevant regulations.
 - In accordance with local and national regulations.
- **Advice on cleaning and disposal of packaging**
 - Clean container with water.
 - Empty containers should be taken to an approved waste handling site for recycling or disposal.
 - Uncleaned empty packaging
 - Dispose of as unused product.
 - In accordance with local and national 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
Labeling according to Regulation (EC Directives 67/548/EEC)

Symbol

Xn Irritant

R-Phrases

R8 Contact with combustible material may cause fire
R22 Harmful if swallowed.
R41 Risk of serious damage to eyes.

S-Phrases

S3 Keep in a cool place.
S8 Keep container dry.
S17 Keep away from combustible material.
S24/25 Avoid Contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advise

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16	OTHER INFORMATION
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- **NFPA (National Fire Protection Association) & HMIS (Hazardous Materials Identification System (Paint & Coating)) - Classification**

Health:	1 moderate
Flammability:	0 minimal
Instability or Reactivity:	1 minimal
PPE:	IRRITANT

- The 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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