# OXYTREAT 210

Safety Data Sheet

according to the United Nations GHS (Rev. 10, 2023)
Issue date: 10/20/2024 Revision date: 10/19/2027 Version: 1.0

BCI
الصناعات الكيميائية الأساسية
BASIC CHEMICAL INDUSTRIES

## SECTION 1: Identification

### 1.1. GHS Product identifier

Product form : Mixture
Product name : OXYTREAT 210

### 1.2. Other means of identification

No additional information available

### 1.3. Recommended use of the chemical and restrictions on use

Recommended use : Oxygen scavenger for steam boiler treatment to prevent corrosion

### 1.4. Supplier's details

**Supplier**
Chemical Marketing and Distribution Co. Ltd.
Dammam 31431,
P.O. Box 1053
Saudi Arabia
T +966138217777 - F +966138472648
sales@bci.com.sa

### 1.5. Emergency phone number

Emergency number : +966138217777

## SECTION 2: Hazard identification

### 2.1. Classification of the substance or mixture

**Classification according to the United Nations GHS**

| | |
|---|---|
| Acute toxicity (oral), Category 5 | H303 |
| Serious eye damage/eye irritation, Category 1 | H318 |

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects : Harmful if swallowed,Causes serious eye damage.

### 2.2. GHS Label elements, including precautionary statements

**Labelling according to the United Nations GHS**

Hazard pictograms (GHS UN) :

Signal word (GHS UN) : Danger
Hazardous ingredients : Sodium metabisulfite
Hazard statements (GHS UN) : H303 - May be harmful if swallowed
H318 - Causes serious eye damage
Precautionary statements (GHS UN) : P264+P265 - Wash hands face thoroughly after handling. Do not touch eyes.
P280 - Wear protective clothing, eye protection, face protection, protective gloves.
P301+P317 - IF SWALLOWED: Get medical help.
P305+P354+P338 - IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P317 - Get medical help.

### 2.3. Other hazards which do not result in classification

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name | Product identifier | % | Classification according to the United Nations GHS |
|---|---|---|---|
| Sodium metabisulfite | CAS-No.: 7681-57-4 | 20 – 40 | Acute Tox. 4 (Oral), H302<br>Eye Dam. 1, H318 |

Full text of H-statements: see section 16

## SECTION 4: First-aid measures

### 4.1. Description of necessary first-aid measures

First-aid measures general : Call a poison center or a doctor if you feel unwell. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Obtain medical attention if breathing difficulty persists.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash skin with plenty of water. Seek medical attention if ill effect or irritation develops.

First-aid measures after eye contact : Rinse immediately with plenty of water. Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. Seek medical attention if ill effect or irritation develops.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Rinse mouth. Call a poison center or a doctor if you feel unwell.

### 4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after eye contact : Serious damage to eyes.

### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released. Thermal decomposition can lead to the release of irritating gases and vapours.

### 5.3. Special protective actions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate unnecessary personnel.

Personal Precautions, Protective Equipment and Emergency Procedures : Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Prevention Measures for Secondary Accidents : Avoid release to the environment.

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear personal protective equipment. Wear suitable protective clothing. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

### 6.3. Methods and materials for containment and cleaning up

For containment : Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel). Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Other information : Dispose of materials or solid residues at an authorized site.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Provide good ventilation in process area to prevent formation of vapour. Avoid contact with skin and eyes. Wear personal protective equipment.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Handle in accordance with good industrial hygiene and safety procedures.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool well ventilated place. Keep container closed when not in use. Store in a well-ventilated place. Keep cool.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Sodium metabisulfite (7681-57-4) | |
|---|---|
| **USA - ACGIH - Occupational Exposure Limits** | |
| Local name | Sodium metabisulfite |
| ACGIH OEL TWA | 5 mg/m³ |
| Remark (ACGIH) | TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen) |
| ACGIH chemical category | Not Classifiable as a Human Carcinogen |
| Regulatory reference | ACGIH 2024 |

### 8.2. Appropriate engineering controls

| | | |
|---|---|---|
| Appropriate engineering controls | : | Ensure good ventilation of the work station. |
| Environmental exposure controls | : | Avoid release to the environment. |
| Other information | : | Do not eat, drink or smoke during use. |

### 8.3. Individual protection measures, such as personal protective equipment (PPE)

**Personal protective equipment:**
Protective clothing. Gloves. Wear a mask.

| | | |
|---|---|---|
| Hand protection | : | Impermeable protective gloves. protective gloves |
| Eye protection | : | Chemical goggles or safety glasses. Safety glasses |
| Skin and body protection | : | Wear suitable protective clothing |
| Respiratory protection | : | In case of insufficient ventilation, wear suitable respiratory equipment. Wear suitable respiratory equipment in case of insufficient ventilation |

**Personal protective equipment symbol(s)**

### 8.4. Exposure limit values for the other components

No additional information available

## SECTION 9: Physical and chemical properties

### 9.1. Basic physical and chemical properties

| | | |
|---|---|---|
| Physical state | : | Liquid |
| Colour | : | Pale yellow. |
| Odour | : | None. |
| Odour threshold | : | Not available |
| Melting point | : | Not available |
| Freezing point | : | Not available |
| Boiling point | : | > 100 °C |
| Flammability | : | Not flammable |
| Lower explosion limit | : | Not available |
| Upper explosion limit | : | Not available |
| Flash point | : | Not available |
| Auto-ignition temperature | : | Not available |
| Decomposition temperature | : | Not available |
| pH | : | 5.4 – 6.5 |
| pH solution | : | Not available |
| Viscosity, kinematic (calculated value) (40 °C) | : | Not available |
| Partition coefficient n-octanol/water (Log Kow) | : | Not available |
| Vapour pressure | : | Not available |
| Vapour pressure at 50°C | : | Not available |
| Density | : | 1.1 – 1.35 g/cm³ |
| Relative density | : | Not available |
| Relative vapour density at 20°C | : | Not available |
| Solubility | : | Completely soluble in Water. |
| Particle size | : | Not applicable |

### 9.2. Data relevant with regard to physical hazard classes (supplemental)

| | | |
|---|---|---|
| Explosive properties | : | Not explosive |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Avoid freezing and exposure to high temperatures.

### 10.5. Incompatible materials

Reactive with acids; contact with acids liberates sulfur dioxide.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : May be harmful if swallowed.
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

| OXYTREAT 210 | |
|---|---|
| ATE UN (oral) | 3275 mg/kg bodyweight |
| Unknown acute toxicity (GHS UN)Unknown acute toxicity (GHS UN) | 40% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)<br>40% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist)) |

| Sodium metabisulfite (7681-57-4) | |
|---|---|
| LD50 oral rat | 1310 mg/kg (Source: JAPAN_GHS) |
| LD50 dermal rat | > 2000 mg/kg (Source: NLM_HSDB) |
| LC50 Inhalation - Rat (Dust/Mist) | > 5.5 mg/l Source: ECHA |

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: 5.4 – 6.5
Serious eye damage/irritation : Causes serious eye damage.
pH: 5.4 – 6.5
Respiratory or skin sensitization : Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)
Other information : Likely routes of exposure: ingestion, inhalation, skin and eye.

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short–term (acute) : Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long–term (chronic) : Not classified (Based on available data, the classification criteria are not met)

| Sodium metabisulfite (7681-57-4) | |
|---|---|
| LC50 - Fish [1] | 32 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: IUCLID) |
| EC50 - Crustacea [1] | 89 mg/l Source: ECHA |
| EC50 72h - Algae [1] | 48 mg/l (Species: Desmodesmus subspicatus) |
| EC50 96h - Algae [1] | 40 mg/l (Species: Desmodesmus subspicatus) |
| ErC50 algae | 43.8 mg/l Source: EHCA |

### 12.2. Persistence and degradability

| OXYTREAT 210 | |
|---|---|
| Persistence and degradability | Rapidly degradable |

| Sodium metabisulfite (7681-57-4) | |
|---|---|
| Persistence and degradability | Rapidly degradable |

### 12.3. Bioaccumulative potential

| OXYTREAT 210 | |
|---|---|
| Bioaccumulative potential | No additional information available |

| Sodium metabisulfite (7681-57-4) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | -3.7 (at 25 °C) |

### 12.4. Mobility in soil

| OXYTREAT 210 | |
|---|---|
| Mobility in soil | No additional information available |

### 12.5. Other adverse effects

Ozone : Not classified (Based on available data, the classification criteria are not met)
Other adverse effects : No additional information available
Effect on the ozone layer : No additional information available.
Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations : Dispose of in a safe manner in accordance with local/national regulations.
Ecological waste information : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with UN RTDG / IMDG / IATA /

| UN RTDG | IMDG | IATA |
|---|---|---|
| **14.1. UN number** | | |
| 2693 | 2693 | 2693 |
| **14.2. UN Proper Shipping Name** | | |
| BISULPHITES, AQUEOUS SOLUTION, N.O.S. | BISULPHITES, AQUEOUS SOLUTION, N.O.S. | Bisulphites, aqueous solution, n.o.s. |
| **14.3. Transport hazard class(es)** | | |
| 8 | 8 | 8 |
|  |  |  |
| **14.4. Packing group** | | |
| III | III | III |
| **14.5. Environmental hazards** | | |
| Dangerous for the environment: No | Dangerous for the environment: No<br>Marine pollutant: No | Dangerous for the environment: No |
| No supplementary information available | | |

## 14.6. Special precautions for user

### UN RTDG

Special provisions (UN RTDG) : 274
Limited quantities (UN RTDG) : 5L
Excepted quantities (UN RTDG) : E1
Packing instruction (UN RTDG) : P001, IBC03, LP01
Portable tank and bulk container special instructions (UN RTDG) : T7
Portable tank and bulk container special provisions (UN RTDG) : TP1, TP28

### IMDG

Special provisions (IMDG) : 274
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : P001, LP01
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T7
Tank special provisions (IMDG) : TP1, TP28
EmS-No. (Fire) : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage) : S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES
Stowage category (IMDG) : A
Stowage and handling (IMDG) : SW2
Segregation (IMDG) : SG35
Properties and observations (IMDG) : Liquid with a pungent odour. Reacts with acids, evolving sulphur dioxide, a toxic gas. Causes burns to skin, eyes and mucous membranes.

### IATA

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y841
PCA limited quantity max net quantity (IATA) : 1L
PCA packing instructions (IATA) : 852
PCA max net quantity (IATA) : 5L
CAO packing instructions (IATA) : 856
CAO max net quantity (IATA) : 60L
Special provisions (IATA) : A803
ERG code (IATA) : 8L

### 14.7. Transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations specific for the product in question

No additional information available

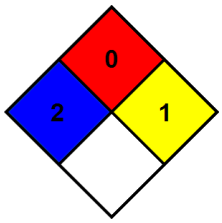
## SECTION 16: Other information

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity : 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.

NFPA specific hazard : None




Hazard Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

Issue date : 10/20/2024

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Other information : None.

| Full text of H-statements: | |
|---|---|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| H302 | Harmful if swallowed |
| H303 | May be harmful if swallowed |
| H318 | Causes serious eye damage |

Safety Data Sheet (SDS), UN

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.