
SAFETY DATA SHEET

1. Identification of the substance or preparation and of the company/undertaking

1.1 Product identifier

- Product Name: OXYGEN CONTROL

1.2 Relevant identified uses of the substance or mixture and uses advised against

- Use of the substance/preparation:
- Boiler water treatment

1.3 Details of the supplier of the safety data sheet

Company:

Unimarine Services Inc.
60 Market Square,
PO Box 364, Belize City

Contact your nearest Unimarine sales office

Representative office in Greece:

Email: info@unimarine.gr
Tel: +30 210 9957279

1.4 Emergency Telephone Number

Emergency Telephone: Only to be used in case of incident
Tel: 00357 25 662068

2. Hazards identification

2.1 Classification of the substance or mixture

- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.
- Refer to current The Dangerous Substances Directive (67/548/EEC)
- Symbols: T
- May cause cancer by inhalation (R49)
- Harmful if swallowed (R22)
- Contact with acids liberates toxic gas (R31)
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- Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous substances and preparations

2. Hazards identification

- Symbols: GHS08
- Signal Word: Danger
- Acute Tox. 4
- Harmful if swallowed (H302).
- May cause cancer by inhalation (H350i).
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2.2 Label elements



- Signal Word: Danger
- Acute Tox. 4
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- Contains:
- sodium hydrogensulphite . . . %
- cobalt sulphate
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- Hazard phrases
- Harmful if swallowed (H302).
- May cause cancer by inhalation (H350i).
- Precautionary Phrases
- Wash hands and working surfaces thoroughly after handling (P264).
- Do not eat, drink or smoke when using this product (P270).
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell (P301+P312).
- Rinse mouth (P330).
- Dispose of contents/container to an authorised waste collection point (P501)

2.3 Other hazards

- Odour: Pungent odour, Strong smell of sulphur
 - Appearance: Liquid, pink, soluble in water
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3. Composition/information on ingredients

3.1 Mixtures

- sodium hydrogensulphite . . . %
Concentration: 30-60%
CAS Number: 7631-90-5
EC Number: 231-548-0
Symbols: Xn, GHS07
R/H Phrases: R22, R31 - H302
Categories: Acute Tox. 4
REACH REG. NO: 01-21195245 63-42-xxxx
- cobalt sulphate
Concentration: 0.01-0.25%
CAS Number: 10124-43-3
EC Number: 233-334-2
Symbols: T, N - GHS07, GHS09, GHS08
R/H Phrases: R49, R22, R42/43, R50/53,
- H302, H317, H334, H341, H350, H360, H400, H410
Categories: Acute Tox. 4, Skin Sens. 1, Resp. Sens. 1, Muta. 2, Carc. 1B, Repr. 1B,
Aquatic Acute 1, Aquatic Chronic 1

4. First aid measures

4.1 Description of first aid measures

- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower (P303+P361+P353).
- Contaminated clothing should be laundered before reuse
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- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305+P351+P338).
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- IF SWALLOWED: rinse mouth. Do NOT induce vomiting (P301+P330+P331).
- Give plenty of water to drink
- Never make an unconscious person vomit or drink fluids
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- IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P341).
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340).
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- When in doubt or symptoms persist, seek medical attention

4.2 Most important symptoms and effects, both acute and delayed

- Possible redness and irritation of affected areas
- Can cause damage to the intestines

4.3 Indication of any immediate medical attention and special treatment needed

5. Fire-fighting measures

5.1 Extinguishing media

- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions
- Keep container(s) exposed to fire cool, by spraying with water

5.2 Special hazards arising from the substance or mixture

- In case of fire: (P370)
- Carbon dioxide may be formed
- Carbon oxides may be formed
- Sulphur oxides may be formed

5.3 Advice for firefighters

- Wear chemical protection suit and positive-pressure breathing apparatus
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6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Wear protective clothing as per section 8

6.2 Environmental Precautions

- Do not allow to enter public sewers and watercourses

6.3 Methods and material for containment and cleaning up

- Absorb spillage in inert material and shovel up
- Flush spill area with copious amounts of water

6.4 Reference to other sections

- See Section 13
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7. Handling and storage

7.1 Precautions for safe handling

- Wear protective clothing as per section 8
- Do not get in eyes, on skin, or on clothing (P262).
- Eyewash bottles should be available

7.2 Conditions for safe storage, including any incompatibilities

- Store in a well-ventilated place. Keep container tightly closed (P403+P233).
- Store in a dry place (P402).
- Protect from frost

7.3 Specific end use(s)

- Contact supplier for further information
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8. Exposure controls/personal protection

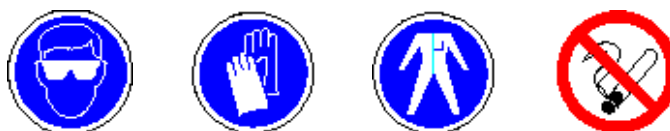
8.1 Control parameters

- TLV (TWA) 5 mg/m³ (Sodium bisulphite)

8.2 Exposure controls

- The undiluted product must not be used in a confined space without good ventilation

8.3 Occupational exposure controls



- Wear suitable protective clothing, including eye/face protection and gloves (plastic or rubber are recommended)
 - Respiratory protection may be required under exceptional circumstances when excessive air contamination exists
 - Gas cartridge (sulphur dioxide).).
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9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Odour: Pungent odour, Strong smell of sulphur
- Appearance: Liquid, pink, soluble in water
- pH 3,5-5,0
- Boiling point 100 °C to 760 °C
- Vapour pressure - not known
- Completely soluble in water
- Density 1,31 g/cm³ at 20 deg C

9.2 Other information

- None
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10. Stability and reactivity

10.1 Reactivity

- This article is considered stable under normal conditions

10.2 Possibility of hazardous reactions

- No hazardous reactions known if used for its intended purpose

10.3 Incompatible materials

- Incompatible with acid
 - Incompatible with oxidizing substances
 - Incompatible with organic peroxides
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10. Stability and reactivity

10.4 Conditions to avoid

- Avoid overheating

10.5 Hazardous Decomposition Products

- Decomposition products may include sulphur oxides
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11. Toxicological information

11.1 Information on toxicological effects

- LD50 (oral,rat) (Sodium hydrogen sulphite) 1250 mg/kg

11.2 Contact with eyes

- Causes redness and irritation

11.3 Contact with skin

- Causes irritation

11.4 Ingestion

- Can cause damage to the intestines

11.5 Inhalation

- Vapours or aerosols may cause irritation of eyes, nose and respiratory tract
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12. Ecological information

12.1 Toxicity

- LC50 (fish) (Sodium hydrogen sulphite) 316 mg/l (96 hr)
- LC50 (Daphnia magna) (Sodium hydrogensulphite) 89 mg/l (48 hr)
- The environmental hazard of the product is considered to be limited. Cobalt is concentrated by animal and aquatic organisms. Low concentrations of cobalt (upto 30 ppm) may have adverse effects on activated sewage sludge systems.

12.2 Persistence and degradability

- Biodegradable

12.3 Bioaccumulation Potential

- Cobalt is known to bioaccumulate.

12.4 Mobility in soil

- Completely soluble in water

12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

12.6 Other Adverse Effects

- No information available
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13. Disposal considerations

13.1 Waste treatment methods

- Do not discharge into drains or the environment, dispose to an authorised waste collection point
- Disposal should be in accordance with local, state or national legislation

13.2 Classification

- This material and/or its container must be disposed of as hazardous waste
 - EU Waste class: 06.03
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14. Transport information



14.1 UN

- UN No.: UN2693
- Proper Shipping Name: Bisulfites, aqueous solution, n.o.s. (sodium bisulfite)
- Hazard Class: 8
- Packing Group: III

14.2 Environmental hazards

- Presents little or no hazard to the environment

14.3 Special precautions for user

- No special precautions are required for this product

14.4 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

- Not applicable

14.5 Road/Rail (ADR/RID)

- ADR UN No.: UN2693
- Proper Shipping Name: Bisulfites, aqueous solution, n.o.s. (sodium bisulfite)
- ADR Hazard Class: 8
- ADR subrisk: n/a
- ADR Packing Group: III
- ADR Flashpoint: n/a

14.6 Sea (IMDG)

- IMDG UN No.: UN2693
- Proper Shipping Name: Bisulfites, aqueous solution, n.o.s. (sodium bisulfite)
- IMDG Hazard Class: 8
- IMDG subrisk: n/a
- IMDG Pack Group.: III
- IMDG EmS: F-A, S-B
- IMDG Flashpoint: n/a

14.7 Air (ICAO/IATA)

- ICAO Un No.: UN2693
- Proper Shipping Name: Bisulfites, aqueous solution, n.o.s. (sodium bisulfite)
- ICAO Packing Group: III
- ICAO Hazard Class: 8
- ICAO subrisk: n/a
- ICAO Flashpoint: n/a

14.8 DOT / CFR (US Department of Transportation)

- Identification Number: UN2693
- DOT Proper Shipping Name: Bisulfites, aqueous solution, n.o.s. (sodium bisulfite)
- DOT Labels:
- Product RQ (lbs): 7700
- Hazardous Material: sodium bisulfite
- Hazard Class: 8
- DOT subrisk: n/a
- DOT Flashpoint: n/a

15. Regulatory information

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

- This Safety Data Sheet has been prepared in accordance with article 31 and annex II in REACH and Directive 453/2010/EU.

15. Regulatory information

- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.
- Refer to The Dangerous Substances Directive (67/548/EEC)
- Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous substances and preparations
- Norwegian Productregistration no: 17130

15.2 Chemical Safety Assessment

- None
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16. Other information

The information contained herein relates only to the specific material identified. Unimarine Services Inc. Believes that such information is accurate and reliable as of the date of this material safety data sheet, but no representation, guarantee or warranty, express or implied, is made as to the accuracy, reliability, or completeness of the information. Unimarine Services Inc. urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application