
SAFETY DATA SHEET

This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006-453/2010

SECTION 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

- Product Name: RO BISULPHITE LIQUID
- Product Part Number: 777852 (25L)

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

- Use of the substance/mixture:
- Water treatment

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Wilhelmsen Ships Service AS
- Address of Supplier: Willem Barentszstraat 50, 3165AB Rotterdam, The Netherlands
-
- Telephone: Telephone: +31 4877 777 Fax: +31 4877 888
-
- Head office: Wilhelmsen Ships Service AS
- Strandveien 20, N1324 Lysaker
- Norway, Tel: (47) 6349 440 35
-
-
- Other suppliers SEE SECTION 16!!!
- For quotations contact your local Customer Services
-
- Responsible Person: Product HSE Manager
- Telephone: +31 10 4877775
- Email: WSS.GLOBAL.SDSINFO@wilhelmsen.com
- Email: WSS.GLOBAL.SDSINFO@wilhelmsen.com

1.4 Emergency telephone number

- ****ONLY TO BE USED IN CASE OF AN INCIDENT****
-
- International 24hrs Emergency NCEC: +44 1865 407333
- American 24hrs Emergency CHEMTREC (800) 424 9300
- American Chemistry Council 24hrs +1 703 527 3887
- Greece: Poisoning emergency center, +30 210 7793777
- Norway: Poison information centre, +47 22591300
- Sweden: Poison information centre, +46 08 33 12 31
- China NRCC 24hrs emergency telephone number: +86-0532-8388 9090
- Wilhelmsen Ships Service, Melbourne, AUSTRALIA Emergency 24hrs: +61 3 9630 0998
-
- The Netherlands: National Poisons Information Centre +31 30 274 88 88

SECTION 2 Hazards identification

2.1 Classification of the substance or mixture

SECTION 2 Hazards identification (....)

- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.
- Refer to current The Dangerous Substances Directive (67/548/EEC)
- Symbols: Xn
- Harmful if swallowed (R22)
- Contact with acids liberates toxic gas (R31)
-
- Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous substances and preparations
- Symbols: GHS07
- Signal Word: Warning
- Acute Tox. 4
- Harmful if swallowed (H302).
-

2.2 Label elements

- Hazard phrases
Harmful if swallowed (H302).
- Signal Word: Warning
- Acute Tox. 4
-
- Contains:
sodium hydrogensulphite . . . %
-
- Precautionary Phrases
Wash 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

- Not applicable
- Not a PBT according to REACH Annex XIII
- Odour: Characteristic odour, Sulphur odour
- Appearance: Liquid, light, yellow, miscible with water

SECTION 3 Composition/information on ingredients**3.1 Mixtures**

- sodium hydrogensulphite . . . %
Concentration: 38-40%
CAS Number: 7631-90-5

SECTION 3 Composition/information on ingredients (....)

EC Number: 231-548-0

Symbols: Xn, GHS07

R/H Phrases: R22, R31 - H302

Categories: Acute Tox. 4

SECTION 4 First aid measures

4.1 Description of first aid measures

- IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P341).
- When in doubt or symptoms persist, seek medical attention
-
- IF SWALLOWED: rinse mouth. Do NOT induce vomiting (P301+P330+P331).
- Remove patient to fresh air
- Get immediate medical advice/attention (P315).
-
- IF ON SKIN: Wash with plenty of soap and water (P302+P352).
- Remove contaminated clothing immediately and drench affected skin with plenty of water
-
- When in doubt or symptoms persist, seek medical attention
-
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305+P351+P338).
- Irrigate eyes thoroughly whilst lifting eyelids
- Seek immediate medical attention

4.2 Most important symptoms and effects, both acute and delayed

- Possible irritation of affected areas
- Vapours or aerosols may cause irritation of eyes, nose and respiratory tract
- The ingestion of significant quantities may cause gastro-intestinal disturbances

4.3 Indication of any immediate medical attention and special treatment needed

- No information available
-

SECTION 5 Fire-fighting measures

5.1 Extinguishing media

- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions

5.2 Special hazards arising from the substance or mixture

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

5.3 Advice for firefighters

- Keep container(s) exposed to fire cool, by spraying with water
 - Wear Breathing Apparatus
-

SECTION 6 Accidental release measures

SECTION 6 Accidental release measures (....)

6.1 Personal precautions, protective equipment and emergency procedures

- Wear protective clothing as per section 8

6.2 Environmental Precautions

- Avoid release to the environment (P273).

6.3 Methods and material for containment and cleaning up

- Absorb spillage in earth or sand
- Place in sealable container
- Ventilate the area and wash spill site after material pick-up is complete

6.4 Reference to other sections

- See Section 13
-

SECTION 7 Handling and storage

7.1 Precautions for safe handling

- Do not get in eyes, on skin, or on clothing (P262).
- Do not breathe dust/fume/gas/mist/vapours/spray (P260).
- Eyewash bottles should be available

7.2 Conditions for safe storage, including any incompatibilities

- Store in a well-ventilated place. Keep cool (P403+P235).
- Keep only in original container (P234).
- Keep container tightly closed (P233).

7.3 Specific end use(s)

- Contact supplier for further information
-

SECTION 8 Exposure controls/personal protection

8.1 Control parameters

- sodium hydrogensulphite . . . %
WEL (long term) 5 mg/m³

8.2 Exposure controls

- No special precautions are required for this product

8.3 Occupational exposure controls

- Respiratory protection may be required under exceptional circumstances when excessive air contamination exists
 - Wear suitable respiratory protection. Gas cartridge (acid gases).
 - Gas cartridge (sulphur dioxide).
 - Wear protective gloves/protective clothing/eye protection/face protection (P280).
 - Wear plastic or rubber gloves
-

SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Odour: Characteristic odour, Sulphur odour
 - Appearance: Liquid, light, yellow
 - Completely soluble in water
-

SECTION 9 Physical and chemical properties (....)

- Density 1,30 - 1,34 g/cm³ at 20 deg C
- pH: 3,7-4,5

9.2 Other information

- None
-

SECTION 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

10.4 Conditions to avoid

- Keep away from heat and sources of ignition

10.5 Hazardous Decomposition Products

- Decomposition products may include sulphur oxides
-

SECTION 11 Toxicological information

11.1 Information on toxicological effects

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

11.2 Contact with eyes

- May cause severe irritation

11.3 Contact with skin

- Causes irritation

11.4 Ingestion

- Causes severe irritation

11.5 Inhalation

- May cause irritation
-

SECTION 12 Ecological information

12.1 Toxicity

- LC₅₀ (fish) (Sodium hydrogen sulphite) 316 mg/l (96 hr)
- EC₅₀ (daphnia) (Sodium hydrogen sulphite) 89 mg/l (48 hr)

12.2 Persistence and degradability

- Readily biodegradable

12.3 Bioaccumulation Potential

- No information available

12.4 Mobility in soil

- No information available

12.5 Results of PBT and vPvB assessment

SECTION 12 Ecological information (....)

- Not a PBT according to REACH Annex XIII

12.6 Other Adverse Effects

- No information available
-

SECTION 13 Disposal considerations

13.1 Waste treatment methods

- Disposal should be in accordance with manufacturer's instructions
- Dispose of contents/container to an authorised waste collection point (P501)

13.2 Classification

- EU Waste class: 06-03
-

SECTION 14 Transport information



14.1 UN

- UN No.: UN2693
- Proper Shipping Name: Bisulphites, aqueous solutions, n.o.s. (sodium hydrogen sulphite)
- Hazard Class: 8
- Packing Group: III

14.2 Environmental hazards

- On available data, substance is not harmful 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: Bisulphites, aqueous solutions, n.o.s. (sodium hydrogen sulphite)
- ADR Hazard Class: 8
- ADR subrisk: Not applicable
- ADR Packing Group: III
- ADR Flashpoint: Not applicable

14.6 Sea (IMDG)

- IMDG UN No.: UN2693
- Proper Shipping Name: Bisulphites, aqueous solutions, n.o.s. (sodium hydrogen sulphite)
- IMDG Hazard Class: 8
- IMDG subrisk: Not applicable
- IMDG Pack Group.: III
- IMDG EmS: F-A, S-B
- IMDG Flashpoint: Not applicable

14.7 Air (ICAO/IATA)

SECTION 14 Transport information (....)

- ICAO UN No.: UN2693
- Proper Shipping Name: Bisulphites, aqueous solutions, n.o.s. (sodium hydrogen
- ICAO Packing Group: III|sulphite)
- ICAO Hazard Class: 8
- ICAO subrisk: Not applicable
- ICAO Flashpoint: -

14.8 DOT / CFR (US Department of Transportation)

- Identification Number: UN2693
 - DOT Proper Shipping Name: Bisulphites, aqueous solutions, n.o.s. (sodium
hydrogen sulphite)
 - DOT Labels: 8
 - Product RQ (lbs): -
 - Hazardous Material: sodium hydrogen sulphite
 - Hazard Class: 8
 - DOT subrisk: Not applicable
 - DOT Flashpoint: Not applicable
-

SECTION 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.
- 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

15.2 Chemical Safety Assessment

- None
-

SECTION 16 Other information

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- H302: Harmful if swallowed. R22: Harmful if swallowed. R31: Contact with acids liberates toxic gas.

The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties

The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer

The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents

The most up-to-date version of this MSDS can be found on www.wilhelmsen.com/shipsservice

OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES

SECTION 16 Other information (....)

Wilhelmsen Ships Service Level 17, 636 St Kilda Road Melbourne Vic 3004 AUSTRALIA
Tel: +61 3 9630 0900 Emergency 24hrs: +61 3 9630 0998

Wilhelmsen Ships Service INC 210 Edgewater Street US-10305 Staten Island New York United States
Telephone daytime: (+1) 718 815 1310 Fax: (+1) 718 233 3268

Wilhelmsen Ships Service INC 2200 W. Pacific Coast Highway US-90810 Long Beach California, United States
Tel (+1) 562 624 8888 Fax (+1) 562 624 1011

Wilhelmsen Ships Service INC 701 Ashland Ave. Ashland Center Two, Bay 12 US- 19032 Folcroft Pennsylvania United States
Tel (+1) 610 586 7801 Fax (+1) 215 701 0646

Wilhelmsen Ships Service INC. 9400 New Century Drive US-77507 Pasadena Texas United States
Telephone daytime: (+1) 281 867 2000 Fax: (+1) 281 867 2800

Wilhelmsen Ships Service Ltd. Unit 3A NewtonsCourt Crossways DA2 6QL Dartford, Kent United Kingdom
Tel (+44) 1322 282 412 Fax (+44) 1322 284 774

Wilhelmsen Ships Service Ltda Rua Bispo Lacerda nos.61/67 Del Catilho BR 21051120 Rio de Janeiro Brazil
Tel (+55) 21 25 82 8000 Fax (+55) 21 25 82 8001

Wilhelmsen Ships Service (S) Pte Ltd 186 Pandan Loop Singapore 128376 Tel (+65) 6395 4545

Wilhelmsen Ships Service Co., Ltd 12-31 Torihama-cho Kanazawa-ku Yokohama-shi JP-236 0002, Japan
Tel (+81) 45 775 0012 Fax (+81) 45 775 0070

Wilhelmsen Ships Service Hellas SA 100, D. Moutsopoulou & Serifou str GR-185 41 Piraeus Greece
Tel (+ 30) 210 4239100 Fax (+ 30) 210 4212480

Wilhelmsen Ships Service AS U.A.E . FI 24 Executive Heights, Tecom C Sheikh Zayed Road (East) Dubai United Arab Emirates
Tel (+971) 4 382 3888

Wilhelmsen Ships Service AS, Willem Barentszstraat 50 3165 AB Rotterdam-Albrandswaard, the Netherlands. Tel (+31) 10 4877 777

