

**SAFETY DATA SHEET****RO DECL**

According to Regulation (EC) No 1907/2006, Annex II

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product name RO DECL

Product number RO-DECL

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

Identified uses Dechlorinating solution

1.3. Details of the supplier of the safety data sheet

Supplier Feedwater Limited
Tarran Way
Tarran Estate
Moreton
Wirral
CH46 4TU
Tel: 0151 606 0808
msds@feedwater.co.uk

1.4. Emergency telephone number

National emergency telephone number National Chemical Emergency Centre - 01865 407333 (UK Only)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification****Physical hazards**

Not Classified

Health hazards

Acute Tox. 4 - H302

Environmental hazards

Not Classified

Classification (67/548/EEC or 1999/45/EC)

Xn;R22. R31.

2.2. Label elements**Pictogram**

Signal word Warning

Hazard statements

H302 Harmful if swallowed.

Precautionary statements

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P264 Wash contaminated skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
 P330 Rinse mouth.
 P501 Dispose of contents/container in accordance with national regulations.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P404 Store in a closed container.

Supplemental label information

EUH031 Contact with acids liberates toxic gas.
 RCH002b For professional users only.
 RCH004b Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.

Contains

SODIUM BISULPHITE . 39.74 %

2.3. Other hazards

Not applicable.

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

SODIUM BISULPHITE%		30-60%
CAS number: 7631-90-5 EC number: 231-548-0 REACH registration number: 01-2119524563-42-XXXX		
Classification	Classification (67/548/EEC or 1999/45/EC)	
Acute Tox. 4 - H302	Xn;R22 R31	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures****Inhalation**

Move affected person to fresh air at once. Get medical attention. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.

Ingestion

Do not induce vomiting. Never give anything by mouth to an unconscious person. Do not induce vomiting. Remove affected person from source of contamination. Give plenty of water to drink. Get medical attention immediately. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

Skin contact

Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.

Eye contact

Remove any contact lenses and open eyelids wide apart. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

4.2. Most important symptoms and effects, both acute and delayed**Inhalation**

Inhalation of sulphur dioxide causes irritation of the eyes, nose, nasopharynx and glottis. Moderate to high doses by inhalation can cause gastrointestinal symptoms including nausea, vomiting and abdominal pain, and corrosive damage to the respiratory tract. High doses may also cause long term respiratory problems such as chronic bronchitis.

Ingestion

Harmful if swallowed. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation.

Skin contact

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May cause irritation.

Eye contact

Eye exposure may cause an immediate stinging and burning sensation with lacrimation.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor

Sulphur dioxide gas may be generated on contact with acids

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards

No unusual fire or explosion hazards noted.

Hazardous combustion products

When heated, vapours/gases hazardous to health may be formed.

5.3. Advice for firefighters

Protective actions during firefighting

No specific firefighting precautions known.

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions

Avoid discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Absorb in vermiculite, dry sand or earth and place into containers. Provide adequate ventilation. Flush contaminated area with plenty of water. Flush away spillage with plenty of water.

6.4. Reference to other sections

Reference to other sections

For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

Avoid spilling. Avoid contact with skin and eyes. Do not handle broken packages without protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Protect from freezing and direct sunlight. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Only store in correctly labelled containers.

7.3. Specific end use(s)

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Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

SODIUM BISULPHITE%

Long-term exposure limit (8-hour TWA): WEL 5 mg/m³

SULPHUR DIOXIDE

Long-term exposure limit (8-hour TWA): WEL 1 ppm 2.6 mg/m³

Short-term exposure limit (15-minute): WEL 1 ppm 2.6 mg/m³

WEL = Workplace Exposure Limit

Ingredient comments

WEL = Workplace Exposure Limits

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

Eye/face protection

Wear eye protection. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection

It is recommended that chemical-resistant, impervious gloves are worn. To protect hands from chemicals, gloves should comply with European Standard EN374. It is recommended that gloves are made of the following material: Neoprene, nitrile, polyethylene or PVC. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected.

Other skin and body protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

Hygiene measures

Do not smoke in work area. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap and water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Combination filter, type B+E/P3. Acid gas filter.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance

Liquid.

Colour

Clear liquid. Light (or pale).

Odour

Pungent. Sulphur.

pH

pH (concentrated solution): 5 Approx.

Relative density

1.30 Approx. @ °C

RO DECL**Solubility(ies)**

Soluble in water.

9.2. Other information**Other information**

Not available.

SECTION 10: Stability and reactivity**10.1. Reactivity**

Reactions with the following materials may generate heat: Oxidising materials.

10.2. Chemical stability**Stability**

Stable at normal ambient temperatures. Will crystallise at temperatures below 0°C

10.3. Possibility of hazardous reactions

Reacts with acids to liberate sulphur dioxide Exothermic reaction with oxidising agents

10.4. Conditions to avoid

Avoid freezing. Avoid heat.

10.5. Incompatible materials**Materials to avoid**

Acids Strong oxidising agents.

10.6. Hazardous decomposition products

Heating may generate the following products: Toxic and corrosive gases or vapours. Sulphur dioxide.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity - oral****ATE oral (mg/kg)**

1,258.17815803

Inhalation

Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Ingestion

Harmful if swallowed.

Skin contact

Irritating to skin.

Eye contact

Irritating to eyes.

SECTION 12: Ecological Information**Ecotoxicity**

Not classified as environmentally hazardous for supply. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.1. Toxicity

Low toxicity

12.2. Persistence and degradability**Persistence and degradability**

Not persistent The product contains inorganic compounds that will eventually degrade to inert salts in the natural environment.

12.3. Bioaccumulative potential

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Does not bioaccumulate.

12.4. Mobility in soil**Mobility**

The product is soluble in water.

12.5. Results of PBT and vPvB assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

May deplete oxygen in natural waters if released into natural waters at high concentrations.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****General information**

Contact a licensed waste disposal company.

Disposal methods

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information**14.1. UN number**

UN No. (ADR/RID)	2693
UN No. (IMDG)	2693
UN No. (ICAO)	2693
UN No. (ADN)	2693

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	BISULPHITES, AQUEOUS SOLUTION, N.O.S.
Proper shipping name (IMDG)	BISULPHITES, AQUEOUS SOLUTION, N.O.S.
Proper shipping name (ICAO)	BISULPHITES, AQUEOUS SOLUTION, N.O.S.
Proper shipping name (ADN)	BISULPHITES, AQUEOUS SOLUTION, N.O.S.

14.3. Transport hazard class(es)

ADR/RID class	8
ADR/RID classification code	C1
ADR/RID label	8
IMDG class	8
ICAO class/division	8
ADN class	8

Transport labels**14.4. Packing group**

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III

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ADN packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS F-A, S-B

ADR transport category 3

Emergency Action Code 2X

Hazard Identification Number 80
(ADR/RID)

Tunnel restriction code (E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not relevant.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU legislation**

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Guidance

Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information**General information**

Only trained personnel should use this material. Further details might be available upon request from Feedwater Ltd

Key literature references and sources for data

REACH registered substances database Other safety data sheets relevant to individual chemical constituents within this product. For the HPA incident management guide on sulphur dioxide, go to https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/318235/hpa_sulphur_dioxide_incident_management_v1.pdf

Revision date 01/06/2015

Revision 7

Supersedes date 01/04/2013

SDS status Approved.

Risk phrases in full

R22 Harmful if swallowed.

R31 Contact with acids liberates toxic gas.

Hazard statements in full

H302 Harmful if swallowed.

RO DECL

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.