

# SAFETY DATA SHEET RO CLEAN A

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

1.1. Product identifier

Product name RO CLEAN A

Product number RO-CA

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

Identified uses Alkaline reverse osmosis membrane cleaner. Low foaming cleaner for the removal of organic

matter.

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards Met. Corr. 1 - H290

**Health hazards** Skin Corr. 1A - H314 Eye Dam. 1 - H318

Environmental hazards Not Classified

Classification (67/548/EEC or C;R35.

1999/45/EC)

**Environmental** Contains phosphates Detergent Information: See section 12.2

2.2. Label elements

**Pictogram** 



Signal word Danger

Revision date: 01/06/2015 Revision: 2 Supersedes date: 01/04/2013

## **RO CLEAN A**

**Hazard statements** H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

**Precautionary statements** P264 Wash contaminated skin thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P390 Absorb spillage to prevent material damage.

P501 Dispose of contents/container in accordance with national regulations.

P401 Store in accordance with national regulations.

Supplemental label

information

RCH002a Restricted to professional users.

Contains POTASSIUM HYDROXIDE 7 %

## 2.3. Other hazards

Not applicable.

## SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

POTASSIUM HYDROXIDE 7 % 5-10%

CAS number: 1310-58-3 EC number: 215-181-3 REACH registration number: 01-

2119487136-33-XXXX

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

Eye Dam. 1 - H318 C;R35 Xn;R22

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** Remove affected person from source of contamination. Keep affected person warm and at

rest. Get medical attention immediately.

**Ingestion** Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse

mouth thoroughly with water. Get medical attention immediately.

Skin contact Remove affected person from source of contamination. Remove contaminated clothing. Wash

skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after

washing.

**Eye contact** Remove affected person from source of contamination. Remove any contact lenses and open

eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention

immediately. Continue to rinse.

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

General information The severity of the symptoms described will vary dependent on the concentration and the

length of exposure. Chemical burns must be treated by a physician.

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

**Notes for the doctor**Treat symptomatically.

## 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

Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapours.

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 or minimise the creation of any environmental contamination.

# 6.3. Methods and material for containment and cleaning up

Methods for cleaning up Do not touch or walk into spilled material. Stop leak if possible without risk. Absorb in

vermiculite, dry sand or earth and place into containers. Flush contaminated area 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.

# 7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in

the original container. Store at temperatures above °C/°F.

Storage class Corrosive storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

Use as directed by supplier

# SECTION 8: Exposure Controls/personal protection

#### 8.1. Control parameters

# Occupational exposure limits

#### POTASSIUM HYDROXIDE 7 %

Short-term exposure limit (15-minute): WEL 2 mg/m³

WEL = Workplace Exposure Limit

Ingredient comments WEL = Workplace Exposure Limits

#### 8.2. Exposure controls

# Protective equipment







Appropriate engineering

controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

**Eye/face protection** The following protection should be worn: Chemical splash goggles.

Hand protection It is recommended that chemical-resistant, impervious gloves are worn. Wear protective

gloves made of the following material: Butyl rubber. Nitrile rubber. Polyvinyl chloride (PVC).

Other skin and body

protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures Provide eyewash station and safety shower. Do not smoke in work area. Wash hands at the

end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When

using do not eat, drink or smoke.

Respiratory protection No specific recommendations. Respiratory protection may be required if excessive airborne

contamination occurs.

## **SECTION 9: Physical and Chemical Properties**

# 9.1. Information on basic physical and chemical properties

**Colour** Colourless to pale yellow.

Odour Characteristic.

Odour threshold

pH (concentrated solution): >13.5

**Initial boiling point and range** Not available.

Flash point

Upper/lower flammability or

explosive limits

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Relative density 1.10 - 1.20 @ °C

Solubility(ies) Soluble in water.

9.2. Other information

Other information Not available.

# SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** Reactions with the following materials may generate heat: Acids.

10.2. Chemical stability

**Stability** Stable at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

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## **RO CLEAN A**

Possibility of hazardous

reactions

Reacts with some metals to liberate hydrogen gas. Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time. Avoid freezing temperatures

10.5. Incompatible materials

Materials to avoid Acids Organic materials Metals

10.6. Hazardous decomposition products

Hazardous decomposition

Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and

**products** other toxic gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

**ATE oral (mg/kg)** 4,757.14

**Inhalation** May cause damage to mucous membranes in nose, throat, lungs and bronchial system.

**Ingestion** May cause burns in mucous membranes, throat, oesophagus and stomach.

**Skin contact** May cause serious chemical burns to the skin.

**Eye contact** Causes burns.

SECTION 12: Ecological Information

**Ecotoxicity** Not regarded as dangerous for the environment.

12.1. Toxicity

**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. The surfactant(s) used in this preparation complies (comply) with the biodegradability criteria as laid down in the European Detergents Regulation No

648/2004 as ammended.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

12.4. Mobility in soil

**Mobility** The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

This product does not contain any substances classified as PBT or vPvB.

assessment

12.6. Other adverse effects

Other adverse effects High concentrations may be damaging to environment due to pH effect.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Contact a licensed waste disposal company.

Dispose of waste to licensed waste disposal site in accordance with the requirements of the Disposal methods

local Waste Disposal Authority.

## SECTION 14: Transport information

#### 14.1. UN number

UN No. (ADR/RID) 1814 UN No. (IMDG) 1814 UN No. (ICAO) 1814

# 14.2. UN proper shipping name

Proper shipping name

(ADR/RID)

POTASSIUM HYDROXIDE SOLUTION

Proper shipping name

POTASSIUM HYDROXIDE SOLUTION

(IMDG)

Proper shipping name (ICAO) POTASSIUM HYDROXIDE SOLUTION

Proper shipping name (ADN) POTASSIUM HYDROXIDE SOLUTION

# 14.3. Transport hazard class(es)

ADR/RID class ADR/RID label 8 **IMDG class** 8 ICAO class/division 8

Transport labels



# 14.4. Packing group

ADR/RID packing group Ш IMDG packing group Ш ICAO packing group Ш

# 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

# 14.6. Special precautions for user

F-A S-B **EmS** 

**Emergency Action Code** 2R

**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

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

## 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.

Safety Data Sheets for Substances and Preparations.

#### 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 may be available from the

supplier.

Key literature references and

sources for data

REACH registered substances database Other safety data sheets relevant to individual

chemical constituents within this product.

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Revision 2

Supersedes date 01/04/2013

SDS number 20319

SDS status Approved.

Risk phrases in full R22 Harmful if swallowed.

R35 Causes severe burns.

Hazard statements in full H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

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.