



SAFETY DATA SHEET
RO WT C348

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name RO WT C348

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

Identified uses Corrosion inhibitor.

1.3. Details of the supplier of the safety data sheet

Supplier REDA Oilfield UK Ltd
Goughburn Building
Craibstone Estate
Bucksburn
Aberdeen
AB21 9TR
Tel: +44 (0)1224 937888
QHSE@redaoilfield.com

1.4. Emergency telephone number

+44 (0)1224 937888

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards Ox. Liq. 2 - H272
Human health Acute Tox. 3 - H301
Environment Aquatic Acute 2 - H401

Classification (1999/45/EEC)

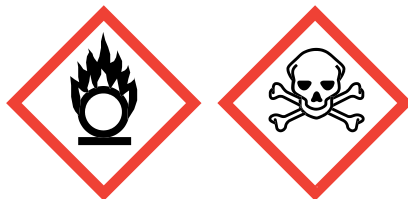
T;R25. O;R8. N;R50.

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

2.2. Label elements

Contains SODIUM NITRITE

Label In Accordance With (EC) No. 1272/2008



Signal Word Danger

Hazard Statements

H272 May intensify fire; oxidiser.
H301 Toxic if swallowed.
H401 Toxic to aquatic life.

Supplementary Precautionary Statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P220 Keep away from combustible materials.
P221 Take any precaution to avoid mixing with combustibles.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

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P264	Wash contaminated skin thoroughly after handling.
P321	Specific treatment (see medical advice on this label).
P370+378	In case of fire: Use foam, carbon dioxide, dry powder or water fog for extinction.
P301+310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P330	Rinse mouth.
P405	Store locked up.
P501	Dispose of contents/container to ...

2.3. Other hazards

This product does not contain any PBT or vPvB substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

SODIUM NITRITE		30-60%
CAS-No.: 7632-00-0	EC No.: 231-555-9	
Classification (EC 1272/2008)	Classification (67/548/EEC)	
Ox. Sol. 3 - H272	O;R8	
Acute Tox. 3 - H301	T;R25	
Aquatic Acute 1 - H400	N;R50	

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

Composition Comments

The data shown are in accordance with the latest EC Directives.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information

Treat Symptomatically.

Inhalation

Remove victim immediately from source of exposure. Move into fresh air and keep at rest. Perform artificial respiration if breathing has stopped. Get medical attention.

Ingestion

Immediately rinse mouth and drink plenty of water (200-300 ml). Do not induce vomiting. Get medical attention immediately!

Skin contact

Immediately remove all contaminated clothing, including footwear. Wash skin and hair with running water (and soap if available). Get medical attention if any discomfort continues.

Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. Get medical attention immediately. Continue to rinse.

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

Inhalation

The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.

Ingestion

Accidental ingestion of the material may be harmful to the health of the individual. There may be irritation to the gastro-intestinal tract with nausea and vomiting. Hypotension (low blood pressure). Cyanosis (blue tissue condition, nails, lips, and/or skin). May cause an asthma-like shortness of breath.

Skin contact

Prolonged skin contact may cause redness and irritation. Examine skin prior to the use of the material and ensure that any external damage is suitably protected.

Eye contact

Contact can cause moderate to severe irritation and possible injury to the eyes. Contact may cause irritation with redness, tearing and pain.

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

Treat Symptomatically. Pre-existing disorders of the following organs (or organ systems) may be aggravated by exposure to this material: chronic lung disease, coronary artery disease or anemias.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Compounds of: Nitrogen. Oxygen.

Unusual Fire & Explosion Hazards

Substance is an oxidiser. Will increase fire hazard if in contact with combustibles.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Cool containers exposed to flames with water until well after the fire is out.

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours. Avoid contact with skin and eyes.

6.2. Environmental precautions

Do not discharge into drains, water courses or onto the ground. Contain spillages with sand, earth or any suitable adsorbent material.

6.3. Methods and material for containment and cleaning up

Absorb with inert, damp, non-combustible material, then flush area with water. Dam and absorb spillages with sand, earth or other non-combustible material. Large Spillages: Alert fire brigade and tell them location and nature of hazard. Self-contained breathing apparatus. Protective gloves should be used if there is a risk of direct contact or splash.

6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid inhalation of vapours/spray and contact with skin and eyes. Provide good ventilation. Wear full protective clothing for prolonged exposure and/or high concentrations. Prevent concentration in hollows and sumps. Do NOT allow clothing wet with material to stay in contact with skin.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks. Store away from incompatible materials and foodstuffs. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. Combination of nitrites or oxides of nitrogen with secondary or tertiary amines can form nitrosamines which are potential carcinogens.

Storage Class

Flammable liquid storage.

7.3. 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

Contains no substances with occupational exposure limit values.

8.2. Exposure controls

Protective equipment



Process conditions

Provide eyewash station.

Respiratory equipment

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

Hand protection

Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable.

Eye protection

Wear approved safety glasses with side shields.

Other Protection

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

Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Colourless to yellow.
Odour	No characteristic odour.
Solubility	Soluble in water.
Initial boiling point and boiling range (°C)	115°C 760 mm Hg
Melting point (°C)	Not available.
Relative density	1.25 - 1.30 at 20°C
Vapour density (air=1)	Not available.
Vapour pressure	Not available.
Evaporation rate	Not available.
pH-Value, Conc. Solution	10.0 - 12.0
pH-Value, Diluted Solution	Not available.
Viscosity	Not determined.
Decomposition temperature (°C)	Not available.
Odour Threshold, Lower	Not available.
Odour Threshold, Upper	Not available.
Flash point (°C)	Not applicable.
Auto Ignition Temperature (°C)	Not available.
Flammability Limit - Lower(%)	Not available.
Flammability Limit - Upper(%)	Not available.

**Partition Coefficient
(N-Octanol/Water)**

Not available.

Explosive properties

Not available.

Oxidising properties

Not available.

9.2. Other information

No information required.

SECTION 10: STABILITY AND REACTIVITY**10.1. Reactivity**

No specific reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions.

10.3. Possibility of hazardous reactions

Not known.

Hazardous Polymerisation

Will not polymerise.

10.4. Conditions to avoid

Do not mix with incompatible materials.

10.5. Incompatible materials**Materials To Avoid**

Avoid Amines. Ammonium Salts. Flammable/combustible material. Cyanides. Strong reducing agents. Strong acids.

10.6. Hazardous decomposition products

Compounds of: Nitrogen. Oxygen.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects****Acute toxicity:****Acute Toxicity (Oral LD50)**

Not available.

SECTION 12: ECOLOGICAL INFORMATION**Ecotoxicity**

There are no data on the ecotoxicity of this product.

12.1. Toxicity**Acute Fish Toxicity**

Not available.

12.2. Persistence and degradability**Degradability**

The degradability of the product has not been stated.

12.3. Bioaccumulative potential**Bioaccumulative potential**

No data available on bioaccumulation.

Partition coefficient

Not available.

12.4. Mobility in soil

Mobility:

The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

General information

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

13.1. Waste treatment methods

Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container. Do not discharge into drains, water courses or onto the ground. Dispose of waste and residues in accordance with local authority requirements. Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

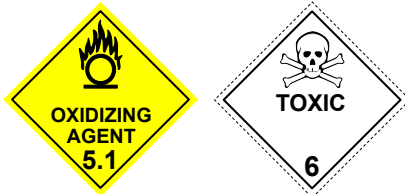
UN No. (ADR/RID/ADN)	3287
UN No. (IMDG)	3287
UN No. (ICAO)	3287

14.2. UN proper shipping name

Proper Shipping Name	TOXIC LIQUID, INORGANIC, N.O.S., (SODIUM NITRITE)
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14.3. Transport hazard class(es)

ADR/RID/ADN Class	6.1
ADR/RID/ADN Class	Class 6.1: Toxic substances.
ADR/RID/ADN Subsidiary Risk	5.1
ADR Label No.	5.1 & 5.1
IMDG Class	6.1
IMDG Subsidiary risk	5.1
ICAO Class/Division	6.1
ICAO Subsidiary risk	5.1

Transport Labels**14.4. Packing group**

ADR/RID/ADN Packing group	III
IMDG Packing group	III
ICAO Packing group	III

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant



14.6. Special precautions for user

EMS	F-A, S-Q
Emergency Action Code	1Z
Hazard No. (ADR)	56

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

No information required.

SECTION 15: REGULATORY INFORMATION

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

Uk Regulatory References

Health and Safety at Work Act 1974. The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.

Guidance Notes

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

EU Legislation

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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Issued By	C. Anthony
Revision Date	19/06/2014
Revision	2
Supersedes date	18/03/2014

Risk Phrases In Full

R8	Contact with combustible material may cause fire.
R25	Toxic if swallowed.
R50	Very toxic to aquatic organisms.

Hazard Statements In Full

H272	May intensify fire; oxidiser.
H301	Toxic if swallowed.
H401	Toxic to aquatic life.
H400	Very toxic to aquatic life.

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.