# Material Safety Data Sheet

**Hydro Testing Oxygen Scavenger** (RXSOL-20-4035-210)

## 1. Product and Company Identifaction

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|---|---|
| Product Name | Hydro Testing Oxygen Scavenger |
| Part Number | : RXSOL-40-4035-210 |


**Company Details:**
**RX MARINE INTERNATIONAL**
**105, A wing , BSEL , TECH PARK.**
**VASHI ,NEW BOMBAY 400703 INDIA**

**Branch : Kandla, JNPT, Mumbai, Chennai, Vizag, Kolkata, Fujairah UAE, Muscat Barka Oman**

| | |
|---|---|
| Phone | +91 22 27815540 / 41 / 42 |
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| Email | **123@rxmarine.com** |
| Website | **www.rxmarine.com** |


## 2. Composition / informationon ingredients

| Name of Substance | Cas Number | EINECS |
|---|---|---|
| Ammonium Bisulphite | 10192-30-0 | 203-469 |
| Ethanediol | 107-21-1 | 203-473 |
| Quaternary Ammonium Chloride | 68391-01-5 | 269-919 |
| Propan-2-ol | 67-63-0 | 200-661 |

## 3. Hazards Identification

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| Signal Word | None |
| Hazard Statements | Causes severe skin burns and eye damage. |
| Precautionary statements - prevention | Keep only in original container. Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection.. |
| Precautionary statements - response | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage.<br>**Storage:** Store locked up. Store in corrosive resistant stainless steel container with a resistant inner liner.<br>**Disposal:** Dispose of contents/ container to an approved waste disposal plant. |

## 4. First Aid Measures

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| Eye Contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately. |
| Skin Contact | Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately. |
| Inhalation: | If inhaled, If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician. |
| Ingestion: | If swallowed, do not induce vomiting. Allow victim to rinse his mouth and then to drink 2-4 cupfuls of water. Never give anything by mouth to an unconscious person. Call a physician. |
| Notes to Physicians | Treat symptomatically. |

## 5. Fire-fighting Measures

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| Suitable extinguishing media | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Protective Equipment | Use personal protective equipment. |
| Hazardous combustionproducts | Decomposition products may include the following materials:<br>Nitrous gases (NOx),Sulphur oxides,Ammonia (NH3) ,Amines. |
| Advice for firefighters | Wear self-contained breathing apparatus. Wear full protective equipment. |
| Specific extinguishing methods | Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes. |

## 6. Accidental Release Measures

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| Personal precautions, protective equipment and emergency procedures | Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. Wear suitable personal protective equipment.Respiratory protective equipment. |
| Enviromental Precaution | Do not allow contact with soil, surface or ground water.If the products get into drains, inform the relevant authorities immediately. |
| Methods and materials for containment and cleaning up | Stop leak if safe to do so. Contain spillage, and then collect with noncombustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. |

## 7. Handling and Storage

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| Advice on safe handling | Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Wash hands thoroughly after handling. |
| Storage | Do not store near acids. Keep out of reach of children. Store in suitable labeled containers. Storage temperature : 10 °C to 50 °C |

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| Advice on general occupational hygiene | Wash hands after use. Do not to eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. |

## 8. Exposure controls and personal protection

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| Engineering Control | Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards. |
| Personal Protection | **Eye protection :** Wear eye protection/ face protection. **Hand protection :** Wear the following personal protective equipment: Standard glove type. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. **Skin protection :** Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing **Respiratory protection :**When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. |

Exposure Limits:

| Ingredients | CAS No | Form of exposure | Value | UK EH40 OES (table 2 ) |
|---|---|---|---|---|
| Sulphur Dioxide | 7446-09-5 | TWA | 5.3 mg/m3 | 2 ppm |
| | | STEL | 13 mg/m3 | 5 ppm |
| Ethane-1-2-Diol | 107-21-1 | TWA | 52 mg/m3 | 20 ppm |
| | | STEL | 104mg/m3 | 40 ppm |
| Oropan-2-ol | 67-63-0 | TWA | 999 mg/m3 | 400 ppm |
| | | STEL | 1,250 mg/m3 | 500 ppm |

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| Hygiene measures | Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard. |



Gloves



Suit

## 9. Physical and chemical properties

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|---|---|
| Form | Liquid |
| Colour | Colourless to slightly Yellow |
| Odour | Acrid, slight odour of Sulphur dioxide |
| Boiling point and boiling range | No Data Available |
| Flash Point | >100°C |
| Freezing Point | No Data Available |
| pH | 6 |
| Evaporation rate | No data available |
| Flammability (solid, gas) | No data available |
| Upper explosion limit | No data available |
| Lower explosion limit | No data available |
| Explosive properties | No data available |
| Vapor pressure | No data available |
| Relative vapor density | No data available |
| Relative density | 1.05-1.11 g/cm3 (25?C) |
| Water solubility | Soluble |
| Solubility in other solvents | No data available |
| Partition coefficient: octanol | No data available |
| Autoignition temperature | No data available |
| Thermal decomposition | No data available |
| Viscosity, kinematic | No data available |
| Explosive properties | No data available |
| Oxidizing properties | No data available |
| Molecular weight | No data available |
| VOC | No data available |

## 10. Stability and reactivity

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| Recativity | None |
| Stability | Stable under normal conditions. |
| Possibility of hazardous reactions | No dangerous reaction known under conditions of normal use. |
| Incompatible materials | Avoid to contact with strong acids<br>Avoid to contact with oxidizing agents.<br>Store away from aldehydes. |
| Hazardous Decomposition | Decomposition products may include the following materials:<br>Sulphurous oxides (SOx)<br>Nitrous oxides (NOx)<br>Ammonia<br>Amines |
| Condition to Avoid | None Known |
| Polymerization | Will not occur. |

## 11. Toxicological information

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| Route of Exposure | Inhalation, Eye contact, Skin contact |
| Eyes | Causes serious eye damage. |
| Skin | Causes severe skin burns. |

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| Ingestion | Causes digestive tract burns |
| Inhalation | Inhalation of vapours leads to irritation of respiratory tract and mucous membranes, headache, nausea, dizziness, vomiting. Sensitisation possible through inhalation |
| Chronic Exposure | Health injuries are not known or expected under normal use. |
| Acute oral toxicity | LD50 200-2,000mg/kg |
| Acute inhalation toxicity | No data available |
| Acute dermal toxicity | No data available |
| Classification | The classification was made by the conventional (calculation) method of Dangerous Preparations Directive(1999/45/EC) |

## 12. Ecological information

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|---|---|
| Environmental Effects | No data available |
| Toxicity to fish | No data available |
| Toxicity to daphnia and others | No data available |
| Toxicity to algae | No data available |
| Biodegradability | > 60% (28 d) |
| Persistence and degradability | No data available |
| Bioaccumulative potential | No data available |
| Mobility in soil | No data available |

## 13. Disposal considerations

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|---|---|
| Remarks | Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. |
| Waste Disposal | The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility |

## 14. Transport information

**Land transport (DOT)**

| | |
|---|---|
| UN Number | 1760 |
| Proper shipping name | Corrosive liquid, n.o.s. |
| Class | 8 |
| Packing Group | II |
| Remarks | Shipment Permitted |
| Hazardous Indoucer(S) | Quaternary ammonium chloride |

**ADR/ ADNR**

| | |
|---|---|
| UN Number | 1760 |
| Proper shipping name | Corrosive liquid, n.o.s. |
| Class | 8 |
| Packing Group | II |

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|---|---|
| Remarks | Shipment Permitted |
| Hazardous Indoucer(S) | Quaternary ammonium chloride |

**IATA**

| | |
|---|---|
| UN Number | 1760 |
| Proper shipping name | Corrosive liquid, n.o.s. |
| Class | 8 |
| Packing Group | II |
| Remarks | Shipment Permitted |
| Hazardous Indoucer(S) | Quaternary ammonium chloride |

**International Maritime Dangerous Goods Code (IMDG) :**

| | |
|---|---|
| **UN Number** | **1760** |
| **Proper shipping name** | **Corrosive liquid, n.o.s.** |
| **Class** | **8** |
| **Packing Group** | **II** |
| **Remarks** | **Shipment Permitted** |
| **Hazardous Indoucer(S)** | **Quaternary ammonium chloride** |

## 15. Regulatory information

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|---|---|
| Labelling in accordance with EC-Directives: | Hazardous symbols<br>C Corrosive |
| R phrases | 22 Harmful is swallowed<br>31 Contact with acids liberates toxic gas<br>34 Causes burns |
| S pharses | 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.<br>27 Take off immediately all contaminated clothing.<br>36/37/39 Wear suitable protective clothing, gloves and eye/face protection<br>45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).<br>60 This material and its container must be disposed of as hazardous waste. |

HMIS

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| Health Hazard | : 2 |
| Fire Hazard | : 2 |
| Reactivity | : 0 |
| Personal Protection | : H |

Fire :

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|---|---|
| Health Hazard | : 2 |
| Fire Hazard | : 2 |

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| Reactivity | : 0 |
| Specific Hazard | : 0 |

## 16. Other information

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| Other Information | The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if **Rx Marine International** has been advised of the possibility of such damages.<br><br>DISCLAIMER OF LIABILITY :The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable. |