Material Safety Data Sheet

Oxygen Treat Scavanger PWD 25 Kg (RXSOL-40-5023-210)

1. Product and Company Identifaction

Product Name	Oxygen Treatment Scavanger (Powder)
Product Type	RXSOL-40-5023-210

Company Details:

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

Branch : Kandla , Hazira, Mumbai, Chennai, Vizag, Kolkata, UAE, OMAN , CANADA, Nairobi KENYA

Phone	+91 22 20871200- 1400
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2. Composition / informationon ingredients

Name of Substance	Cas Number	EC Number	Wight %
Sodium Sulfite	7757-83-7	215-211-5	80 - 100%
Sodium Bisulfite	7631-90-5	231-548-0	1.00 - 5.00%
Catalyst	Proprietory	NA	5.00 -10.00%

3. Hazards Identification

Signal Word	Warning
Hazard Statements	H302 Harmful if swallowed. H315 Causes skin irritation.
Precautionary statements - prevention	P280 Wear protective gloves.
Precautionary statements - response	P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position 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. P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician

4. First Aid Measures

EYE CONTACT :	Immediately flush with plenty of water for at least 15 minutes. Get medical attention.
SKIN CONTACT :	Immediately flush with plenty of water for at least 15 minutes. If skin irritation persists, obtain medical attention.
INGESTION :	Do not induce vomiting without medical advice. If conscious, washout mouth and give water to drink. If unconsious,do not give anything by mouth, place in the recovery position, check breathing and pulse. If necessary give artifical respiration. Get medical attention.
INHALATION :	Remove to fresh air, treat symptomatically. If breathing has stopped, trained personnel should begin artificial respiration or, if the heart has stopped, cardiopulmonary resuscitation (CPR) immediately. Get medical attention.

NOTE TO PHYSICIAN :	Based on the individual reactions of the patient, the physician's judgement should be used to control symptoms and clinical condition.

5. Fire-fighting Measures

FLASH POINT :	Not flammable
LOWER EXPLOSION LIMIT :	Not flammable
UPPER EXPLOSION LIMIT :	Not flammable
EXTINGUISHING MEDIA :	Use extinguishing media appropriate for surrounding fire.
FIRE AND EXPLOSION HAZARD :	May evolve oxides of sulfur (SOx) under fire conditions. May evolve hydrogen sulfide (H2S) under fire conditions.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING :	May evolve oxides of sulfur (SOx) under fire conditions. May evolve hydrogen sulfide (H2S) under fire conditions.

6. Accidental Release Measures

PRECAUTIONS :	Restrict access to area as appropriate until clean-up operations are complete. Do not touch spilled material. Ventilate spill area if possible. Stop or reduce any leaks if it is safe to do so. Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection). Notify appropriate government, occupational health and safety and environmental authorities.
METHODS FOR CLEANING UP :	SMALL SPILLS: Soak up spill with absorbent material. Place residues in a suitable, covered, properly labeled container. Wash affected area. LARGE SPILLS: Contain liquid using absorbent material, by digging trenches or by diking. Reclaim into recovery or salvage drums or tank truck for proper disposal. Dispose of material in compliance with regulations indicated in Section 13 (Disposal Considerations). Contact an approved waste hauler for disposal of contaminated recovered material.
ENVIRONMENTAL PRECAUTIONS:	Do not contaminate surface water.

7. Handling and Storage

HANDLING :	Do not take internally. Avoid generating aerosols and mists. Do not get in eyes, on skin, on clothing.
STORAGE CONDITIONS :	Store in a cool well ventilated area away from direct sunlight. Store the containers tightly closed. Evolves sulfur dioxide (SO2) when open to atmosphere. The rate of SO2 evolution increases with temperature and/or transfer of product. Sulfur dioxide may react with vapors from neutralizing amines and may form a visible cloud of amine salt particles.

8. Exposure controls and personal protection

Engineering Control	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protection	Eye/face Protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin and body protection: Wear appropriate protective gloves and clothing to prevent skin exposure. Respiratory Protection : Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator exposure limits are exceeded or if irritation or other symptoms are experienced.
Other Protection Measure	Handle in accordance with good industrial hygiene and safety practice.

OCCUPATIONAL EXPOSURE LIMITS :
Exposure guidelines have not been established for this product. Available exposure limits for the substance(s) are shown below.

ACGIH/TLV :Substance(s)

Exposure Limit	Sulfur Dioxide	TWA: 2 ppm , 5.2 mg/m3 STEL: 5 ppm , 13 mg/m3
	Sodium Bisulfite	TWA: 5 mg/m3

OSHA/PEL :Substance(s)

Sulfur Dioxide	TWA: 2 ppm , 5 mg/m3 STEL: 5 ppm , 13 mg/m3
Sodium Bisulfite	TWA: 5 mg/m3

9. Physical and chemical properties

PHYSICAL STATE	Crystaline or powder
APPEARANCE	Off-white
ODOR	Odorless
ODOR THRESOLD	Not determined
RELATIVE DENSITY	2.60
pH 1% SOLUTION	? 7
SOLUBILITY IN WATER	Soluble
BOILING POINT	Not applicable
VAPOR PRESSURE	Not applicable
VAPOR DENSITY	Not applicable
EVAPORATION RATE	Not applicable
FLASH POINT	Not flammable
AUTOIGNITION TEMPERATURE	Not applicable
UPPER FLAME LIMIT	Not applicable
LOWER FLAME LIMIT	Not applicable
DECOMPOSITION TEMPERATURE	Not determined.
FLAMMABILITY (SOLID,GAS)	Not flammable
OSHA FLAMMABILITY CLASS	Not applicable.

10. Stability and reactivity

STABILITY :	Stable under normal conditions.
HAZARDOUS POLYMERIZATION :	Hazardous polymerization will not occur.
CONDITIONS TO AVOID :	High temperatures
MATERIALS TO AVOID :	Contact with strong oxidizers (e.g. chlorine, peroxides, chromates, nitric acid, perchlorate, concentrated oxygen,permanganate) may generate heat, fires, explosions and/or toxic vapors. Contact with strong acids(e.g.sulfuric,phosphoric,nitric,hydrochloric, chromic, sulfonic) may generate heat, splattering or boiling and toxic vapors
HAZARDOUS DECOMPOSITION PRODUCTS :	Under fire conditions: Oxides of sulfur, Hydrogen sulfide (H2S)

11. Toxicological information

No toxicity studies have been conducted on this product.

SENSITIZATION :	HUMAN HAZARD CHARACTERIZATION :
CARCINOGENICITY :	None of the substances in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the American Conference of Governmental Industrial Hygienists (ACGIH).
HUMAN HAZARD CHARACTERIZATION :	Based on our hazard characterization, the potential human hazard is: Low

12. Ecological information

ECOTOXICITY	Daphnia magna LC50 48 hrs Western Mosquitofish 96hrs LC50 Biological Oxygen Demand (BOD)	440 mg/L 460 mg/L 0.12 lb/lb, instantaneous
PERSISTENCE AND DEGRADABILITY	No data available.	
Products Biodegradation:	No data available.	
BIOACCUMULATIVE POTENTIAL	No data available.	
MOBILITY IN SOIL	No data available.	
OTHER ADVERSE EFFECTS	No data available.	

13. Disposal considerations

Waste treatment Method	Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself

14. Transport information

LAND TRANSPORT :

Proper Shipping Name :	PRODUCT IS NOT REGULATED DURING TRANSPORTATION

AIR TRANSPORT (ICAO/IATA) :

Proper Shipping Name :	PRODUCT IS NOT REGULATED DURING TRANSPORTATION

MARINE TRANSPORT (IMDG/IMO) :

Proper Shipping Name :	PRODUCT IS NOT REGULATED DURING TRANSPORTATION

15. Regulatory information

OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200	Based on our hazard evaluation, the following substance(s) in this product is/are hazardous and the reason(s) is/are shown below.

Sodium Sulfite	Respiratory irritant
Sodium Bisulfite	Respiratory irritant

CERCLA/SUPERFUND, 40 CFR 117, 302	Notification of spills of this product is not required.
WHMIS (Canada)	CLASS C: Oxidizing material.
SARA 313 TOXIC CHEMICALS	The following ingredients are SARA 313 "Toxic Chemicals" and may be subject to annual reporting requirements. CAS numbers and weight percents are found in Section 2.

16. Other information

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 weassume 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. 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.