Material Safety Data Sheet

Oxygen Scavenger Boiler Oxy Control (RXSOL-42-1524-030)

1. Product and Company Identifaction

Product Name	RXSOL-42-1524-030
Product Type	Oxygen Scavenger Boiler Oxy Control

Company Details:

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

Stock Point ::: Mumbai, Kandla, Chennai, Visakhapatnam, Kolkata, Fujairah, Muscat

Phone	+91 22 27815541 / 42
Fax	+91 22 2781 1318+91 22 2781 1318 :::AOH :0091 9821214367
Email	mail@rxmarine.com

2. Composition / informationon ingredients

CAS No	Chemical Name	w/w
763-90-5	Sodium Bisulflte	20%
3710-84-7	N,N-Diethylhydroxylamine	10%
-	Proprietary Blend of Stabilizers and Amine derived organic products	> 60%

3. Hazards Identification

Eye Contact	Irritant
skin contact	Irritant
inhalation	It inhaled remove to fresh air,if not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person
Carcinogenic effect	na
MUTAGENIC EFFECTS:	Mutagenic for bacteria and / or yearst

4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at teast 15 minutes.Cold water may be used.Get medical attention.

Skin Contact	In case of contact, immediately flush skin with plenty of water.Cover the irritated skin with an emallent. Remove contamineted clothing and shoes. Cold water may be used.Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medial attention.
Inhalation	It inhaled remove to fresh air,if not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Serious Inhalation	Not available.
Ingestion	DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen light clothing such as a collar, tie belt or waistband.
Serious Ingestion:	Not available.

5. Fire-fighting Measures

Flammability of the Product	Non-flammable
Auto-Ignition Temperature	Not applicable.
Flash Points	Not applicable.
Products of Combustion	Not available.
Fire Hazards in Presence of Various Substances	Not applicable.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact : Not available. Risks of explosion of the product in presence of static discharge: Not available
Fire Fighting Media and Instructions	Not applicable.
Special Remarks on Explosion Hazards:	Not available.

6. Accidental Release Measures

Small Spill	Use appropriate tools to put the spilled solid in a covenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of accroding to local and regional authority requirements.
Large Spill	Use a stovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

7. Handling and Storage

Precautions	Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory eqipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes, keep away from incompatibles such as oxidizing agents, alkalis.
Storage	Keep container tightly closed. Keep Container in a cool, well-ventilated area.

8. Exposure controls and personal protection

Engineering Controls	Use process enclosures,local exhaust ventilation, or other engineering controls to keep airbome 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	Splash goggles. Lab coat, Dust respirator. Be sure to use an approved / certifiled respirator or equivalent Gloves.
Personal Protection in case of a Large Spill"	Splash goggles. Full suit. Dust respirator. Boots Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Exposure Limits	TWA 5 (mg/m3) from OSHA (PEL) [united states] Inhalation TWA 5 (mg/m3) from ACGIH (TLV) [united states] Inhalation TWA 5 (mg/m3) from [united states] Inhalation TWA 5 (mg/m3) from [United Kingdom(UK)] Inhalation TWA 5 (mg/m3) from [Canada] inhalation Consult local authorities for acceptable exposure limits.

9. Physical and chemical properties

Solubility (10 % Aquous Soln)	V. S. Hazy to clear solution.
pH Value of 5% Solution	3.5 to 4.5
Specific Gravity @ 25° C	1.310 – 1.370
Density, lbs/gal @ 25° C	5-6
Appearance	Clear Liquid
Odour	Pungent Odour
Standard Packing	30 Kg / 50 Kg. / 250 kg HM HDPE Barrel

10. Stability and reactivity

Stability	The product is stable.
Instability Temperature	Not available.
Conditions of Instability	Incompatible materials
Incompatibility with various substances	Reactive with oxidizing agents, acids.
Corrosivity	Non - corrosive in presence of glass.
Special Remarks on Reactivity	Slowly oxidized to sulfate on exposure to air.

Special Remarks on Corrosivity	Not available.
Polymerization	Will not occur.

11. Toxicological information

Routes of Entry	Inhalation, Ingestion.
Toxicity to Animals	Acute oral toxicity (LD50): 2000 mg/kg [Rat].
Chronic Effects on Humans	CARCINOGENIC EFFECTS :3 (Not classifiable for human.) by IARC. MUTAGENIC EFFECTS :Mutagenic for bacteria and/or yeast. May cause damage to the following organs: lungs, skin.
Other Toxic Effects on Humans	Hazardous in case of skin contact (irritant), of ingestion, of inhalation.
Special Remarks on Toxicity to Animals	Not available
Special Remarks on Chronic Effects on Humans	May affect genetic material (mutagenic). May cause cancer based on animal test data. No human data found.
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: Skin Causes skin irritation. Eyes. Causes eye irritation. Inhalation :Can cause respiratory tract irritation with cough, Wheezing, and Shortness of breath. It can produce anaphylaxis or other hypersensivity reactions in some sensitized individuals. Ingestion :May be harmful if swallowed. It may cause nausea, vomiting ,diarrhea, abdominal pain, gastric. Extremely large amounts may affect behavior / central nervous system and may produce central nervous system stimulation,irritation,seizures and may also cause, cyanosis, respiratory depression, apnea,circulatory disturbances, hypotension and cardlovascular collapse.May cause asthmatic reaction in sensitized individuals. Chronic Potential Health Effects: Inhalation : Prolonged or repeated inhalation may cause bronchitis to develop with cough, phlegm, and/or shortness of breath. It can cause an asthma-like allergy or other hypersensivity reactions such as anaphylaxis, angloedema, bronchoconstriction, flushing, diaphoresis, urtiacaria, tachycardia, and hypotension in sensitized individuals. Futures exposures may cause shortness of breath. Wheezing, cough, and/or chest tightness. Skin:Protonged or repeated skin contact can cause dermatitis. Ingestion : Prolonged or repeated ingestion may affect the liver, and blood

12. Ecological information

Ecotoxicity	Not available.
BOD5 and COD	Not available.

Products of Biodegradation	Possibly hazardous short term degradation product are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	The products of degradation are less toxic than the product itself.
Special Remarks on the Products of Biodegradation	Not available.

13. Disposal considerations

Waste Disposal	Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. Transport information

DOT Classification	Not a DOT controlled material (United States).
Identification	Not applicable.
Special Provisions for Transport	Not applicable.

15. Regulatory information

Federal and state Regulations:

Connecticut hazardous material survey : Sodium bisulfite

Illinoistoxic substances disclosure to employee act: Sodium bisulfite

Illinois chemical safety act: Sodium bisulfite

New York release reporting list: Sodium bisulfite

Pennsylvania RTK : Sodium bisulfite

Minnesota :Sodium bisulfite

Massachuselts RTK : Sodium bisulfite

Massachuseltts spill list : Sodium bisulfite

New Jersey : Sodium bisulfite

New Jersey spill list : Sodium bisulfite

Louisianp spill reporting : Sodium bisulfite

Califomia Director's List of Hazardous Substances: Sodium bisulfite

TSCA 8(b) inventory Sodium bisulfite

TSCA 8(a) PAIR : Sodium bisulfite

TSCA 8(d) H and S data reporting : Sodium bisulfite: Effective date :1/26/94; Sunset date : 6/30/98

CERCLA : Hazardous substances : Sodium bisulfite : 5000 lbs. (2268 kg)

Other Regulations:

OSHA Hazardous by definition of Hazard Communication Standard (29 CFR 1910,1200).

EINECS : This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada): CLASS D-2B: Material causing other toxic effects (TOXIC)

DSCL (EEC):

R22- Harmful if swallowed.

R31- Contact with acids liberates toxic gas.

S25- Avoid contact with eyes.

S46- If swallowed, seek medical advice immediately and show this container or label.

HMIS (U.S.A.):

Health Hazard :2

Fire Hazard :0

Reactivity :0

Personal Protection :E

National Fire Protection ASsociation (U.S.A.):

Health :2

Flammability :0

Reactivity :0

Specific hazard :

Protective Equipment:

Gloves

Lab coat

Dust respirator. Be sure to use an approved/certified respirator or equivaient. Wear appropriate respirator when ventilation is inadequate.

Splash goggles.

16. 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 rxmarine.com 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 RXMARINE has been advised of the possibility of such damages.

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