

## 1. Product and Company Identification

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Part Number RXSOL-16-5016-210

Product Name Oxygen Scavanger

### Company Details:

RX MARINE INTERNATIONAL  
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## 2. Composition / Information on ingredients

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This product is classified as dangerous in accordance with the Preparations Directive 1999/45/EC.

Product	EINECS / ELINCS NO	CAS NO	SYMBOL	R-PHRASES / NOTAS	% (w/w)
Carbohydrazide 1,3-Diaminourea	207-837-2	479-89-7			1-2
Ammonium Bisulfite	233-469-7	10192-30-0	xi	R31, R36/37/38	60 - 90

Refer to Section 16 for descriptions of relevant risk phrases and Notas.

## 3. Hazards Identification

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### HAZARD CLASSIFICATION :

This product is classified as dangerous in accordance with the Preparations Directive 1999/45/EC. Contact with acids liberates toxic gas. Irritating to eyes, respiratory system and skin

### HUMAN HEALTH HAZARDS - ACUTE :

#### INHALATION :

Not a likely route of exposure. Irritating to the eyes, nose, throat and lungs. Causes asthmatic signs and symptoms in hyper-reactive individuals.

#### SKIN CONTACT :

Can cause moderate irritation

#### EYE CONTACT

Irritating, and may injure eye tissue if not removed promptly

#### INGESTION :

Not a likely route of exposure. There may be irritation to the gastro-intestinal tract. May cause asthmatic-like attack.

### HUMAN HEALTH HAZARDS - CHRONIC

Ingestion of sulfite can cause a severe allergic reaction in asthmatics and some sulfite sensitive individuals. The resulting symptoms can include difficulty in breathing, flushed skin and a rash

## 4. First Aid Measures

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### INHALATION :

Remove to fresh air, treat symptomatically. If symptoms develop, seek medical advice

### SKIN CONTACT

Immediately flush with plenty of water for at least 15 minutes. If symptoms develop, seek medical advice.

### EYE CONTACT

Immediately flush eye with water for at least 15 minutes while holding eyelids open. If symptoms develop, seek medical advice

### INGESTION

Do not induce vomiting without medical advice. If conscious, washout

NOTE TO PHYSICIAN

mouth and give water to drink. If reflexive vomiting occurs, rinse mouth and repeat administration of water.

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

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FLASH POINT :

Not applicable

EXTINGUISHING MEDIA

Not expected to burn. Use extinguishing media appropriate for surrounding fire.

FIRE AND EXPLOSION HAZARD

Not flammable or combustible.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING

In case of fire, wear a full face positive-pressure self contained breathing apparatus and protective suit

6. Accidental Release Measures

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PERSONAL PRECAUTIONS

Restrict access to area as appropriate until clean-up operations are complete. Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection). Stop or reduce any leaks if it is safe to do so. Ventilate spill area if possible. Ensure clean-up is conducted by trained personnel only. Do not touch spilled material. Have emergency equipment (for fires, spills, leaks, etc.) readily available. 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.

ENVIRONMENTAL PRECAUTIONS

Do not contaminate surface water

7. Handling and Storage

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HANDLING

Do not get in eyes, on skin, on clothing. Do not take internally. Use with adequate ventilation. Do not breathe vapors/gases/dust. Keep the containers closed when not in use. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Ensure all containers are labeled

STORAGE CONDITIONS

Store in suitable labeled containers. Store the containers tightly closed. Amine and sulphite products should not be stored within close proximity or resulting vapors may form visible airborne particles. Avoid direct sunlight. At temperatures greater than 50°C may decompose exothermically with release of sulphur dioxide. 18 month shelf life under given storage conditions

SUITABLE CONSTRUCTION MATERIAL

Teflon, Perfluoroelastomer, PTFE, TFE, FEP (encapsulated), HDPE (high density polyethylene), Viton, Neoprene, Polypropylene, Stainless Steel 304, Stainless Steel 316L, Nitrile, EPDM

UNSUITABLE CONSTRUCTION MATERIAL

Brass, Aluminum, Mild steel, Carbon Steel C1018

8. Exposure controls and personal protection

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MONITORING MEASURES

A small volume of air is drawn through an absorbant or barrier to trap the substance(s) which can then be desorbed or removed and analyzed as referenced below

Substance(s)	Method	Analysis	Absorbant
Sulfur Dioxide	US NIOSH: 6004	Ion chromatography	Cellulose ester filter treated with Sodium Bicarbonate

## ENGINEERING MEASURES

The use of local exhaust ventilation is recommended to control emissions near the source. Laboratory samples should be handled in a fumehood. Provide mechanical ventilation of confined spaces

## PERSONAL PROTECTION GENERAL ADVICE

The use and choice of personal protection equipment is related to the hazard of the product, the workplace and the way the product is handled. In general, we recommend as a minimum precaution that safety glasses with side-shields and workclothes protecting arms, legs and body be used. In addition any person visiting an area where this product is handled should at least wear safety glasses with side-shields. The applicable European standard can be found in EN 166 .

## RESPIRATORY PROTECTION

Where concentrations in air may exceed the limits given in this section, the use of a half face filter mask or air supplied breathing apparatus is recommended. A suitable filter material depends on the amount and type of chemicals being handled. Consider the use of filter type: E The applicable European standard can be found in EN 140, EN 137, EN 143 and EN 14387. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection

## HAND PROTECTION

When handling this product, the use of chemical gauntlets is recommended. The choice of work glove depends on work conditions and what chemicals are handled, but we have positive experience under light handling conditions using gloves made from PVC Gloves should be replaced immediately if signs of degradation are observed. Breakthrough time not determined as preparation, consult PPE manufacturers.

## SKIN PROTECTION

When handling this product, the use of overalls, a chemical resistant apron and rubber boots is recommended.

## EYE PROTECTION

Wear chemical splash goggles.

## HYGIENE RECOMMENDATIONS

Use good work and personal hygiene practices to avoid exposure. Keep an eye wash fountain available. Keep a safety shower available. If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse. Always wash thoroughly after handling chemicals. When handling this product never eat, drink or smoke

## 9. Physical and chemical properties

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PHYSICAL STATE	Liquid
APPEARANCE	Yellow Clear
ODOR	Pungent
FLASH POINT	Not applicable
SPECIFIC GRAVITY	1.16 (20 °C)
SOLUBILITY IN WATER	Complete
pH (100 %)	5.3
VISCOSITY	Calculated 1.6 cst (20 °C)
MELTING POINT	-20 °C
INITIAL BOILING POINT	100 °C Calculated
VAPOR PRESSURE	3.2 kPa (25 °C)
EVAPORATION RATE	1.5 (BuAc = 1)

Note: These physical properties are typical values for this product and are subject to change

## 10. Stability and reactivity

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STABILITY	This material is unstable at elevated temperatures, which may cause exothermal decomposition
HAZARDOUS POLYMERIZATION CONDITIONS TO AVOID	Hazardous polymerization will not occur At temperatures greater than 50°C may decompose exothermically with release of Sulphur dioxide gas
MATERIALS TO AVOID	SO <sub>2</sub> may react with vapors from neutralizing amines and may produce a visible cloud of amine salt particles., 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

## 11. Toxicological information

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No toxicity studies have been conducted on this product

SENSITIZATION	Sulfites can cause an allergic reaction in sensitive individuals
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).

For additional information on the hazard of the preparation, please consult section 2 and 12.

## 12. Ecological information

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ECOTOXICOLOGICAL EFFECTS

MOBILITY