

Product Name: Corrosion Inhibitor Carbon Dioxide and H2S

Part No / SKU: RXSOL-16-2065-210

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Document Type: Material Safety Data Sheet (MSDS)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Part Number	RXSOL-16-2065-210
Product Name	Corrosion Inhibitor for Carbon Dioxide and H2S

Company Details:

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
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2. COMPOSITION / INFORMATION ON INGREDIENTS

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

Hazardous Substance	EINECS / ELINCS NO	SYMBOL	R-PHRASES / NOTAS	% (w/w)
Imidazoline Salts	Proprietary	Xi	R38, R41,R52/53	5 - 10
Quaternary Ammonium compound	Proprietary	C, N	R22, R34, R50	1 - 5
Proprietary Blend Non Hazardous Mixture				81-90

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

3. HAZARDS IDENTIFICATION

HAZARD CLASSIFICATION :	Toxic by inhalation, in contact with skin and if swallowed. Irritating to eyes and skin
HUMAN HEALTH HAZARDS - ACUTE :	
INHALATION :	Toxic by inhalation. Repeated or prolonged exposure may irritate the respiratory tract.
SKIN CONTACT :	Contact with skin can cause moderate irritation
EYE CONTACT	Irritating, and will injure eye tissue if not removed promptly
INGESTION :	Not a likely route of exposure. Toxic if swallowed
PHYSICAL AND CHEMICAL HAZARDS	Combustible

4. FIRST AID MEASURES

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

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

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. 12 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
SPECIFIC USE(S)	
OXYGEN SCAVENGER	For specific dosages and customized applications please contact your representative

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

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. The applicable European standard can be found in EN 374
SKIN PROTECTION	When handling this product, the use of overalls, a chemical resistant apron and rubber boots is recommended. The applicable European standard can be found in EN ISO 20345
EYE PROTECTION	Wear chemical splash goggles. The applicable European standard can be found in EN 166
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

PHYSICAL STATE	Liquid
APPEARANCE	Yellow Clear
ODOR	Pungent
FLASH POINT	Not applicable
SPECIFIC GRAVITY	1.035 (16 °C)
SOLUBILITY IN WATER	Insoluble
pH	N/A
VISCOSITY	Calculated 10cst
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

STABILITY	This material is unstable at elevated temperatures, which may cause exothermal decomposition
HAZARDOUS POLYMERIZATION	Hazardous polymerization will not occur
CONDITIONS TO AVOID	At temperatures greater than 50°C may decompose exothermically with release of Sulphur dioxide gas
MATERIALS TO AVOID	SO ₂ 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	Amine

11. TOXICOLOGICAL INFORMATION

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

ECOTOXICOLOGICAL EFFECTS

MOBILITY	The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite TM , provided by the US EPA. The model assumes a steady state condition between the total input and output. The level III model does not require equilibrium between the defined media. The information provided is intended to give the user a general estimate of the environmental fate of this product under the defined conditions of the models. If released into the environment this material is expected to distribute to the air, water and soil/sediment in the approximate respective percentages (Air-5%, Water- 30 - 50%, Soil/Sediment- 50 - 70%) The portion in water is expected to be soluble or dispersible
PERSISTENCY AND DEGRADATION	The organic portion of this preparation is expected to be readily biodegradable
BIOACCUMULATION POTENTIAL	This preparation or material is not expected to bioaccumulate

13. DISPOSAL CONSIDERATIONS

If this preparation becomes a waste, the final user must define and assign the appropriate European Waste Catalogue code. Use only authorized contractors. Ensure compliance with EC, national and local regulations.

Dispose of wastes in an approved incinerator or waste treatment/disposal site, in accordance with all applicable regulations. Do not dispose of wastes in local sewer or with normal garbage. This product is ashless and can be burned directly in appropriate equipment. This product is NOT suitable for disposal via municipal sewers, drains, natural streams or rivers.

Empty drums should be taken for recycling, recovery, or disposal through a suitably qualified or licensed contractor.

EUROPE WASTE CODE	16 03 03* - OFF SPECIFICATION BATCHES AND UNUSED PRODUCTS - Inorganic wastes containing dangerous substances. If this product is used in any further processes, the final user must redefine and assign the most appropriate European Waste Catalogue Code
NATIONAL REGULATIONS FRANCE	
Waste Code	Relevant

14. TRANSPORT INFORMATION

The information in this section is for reference only and should not take the place of a shipping paper (bill of lading) specific to an order. Please note that the proper Shipping Name / Hazard Class may vary by packaging, properties, and mode of transportation. Typical Proper Shipping Names for this product are as follows.

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

CLASSIFICATION AND LABELLING	
GOVERNING DIRECTIVE(S):	Dangerous Substances Directive 67/548/EEC and Dangerous Preparations Directive 1999/45/EC.
HAZARD SYMBOLS	IRRITANT
	Contains:.Amine
RISK PHRASES	
R31	Contact with acids liberates gas.
R36/37/38 -	Irritating to eyes, respiratory system and skin
SAFETY PHRASES	
S23 -	Do not breathe vapor
S24/25 -	Avoid contact with skin and eyes.
S26 -	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S28	After contact with skin, wash immediately with plenty of water
S37/39 -	Wear suitable gloves and eye/face protection.

NATIONAL REGULATIONS FRANCE

Table of occupational diseases, Article L461-4. Social Security Code- Decree 11/2/2003: Not-applicable.

Dangerous or Poisonous Substances and Preparations: Relevant.

Special medical supervision - Decree of 11 July 1977: Not-applicable.

Work Restrictions:

Fair labor standards act, Article R234-9 and 10 (women): Not-applicable.

Fair labor standards act, Article R234-16, 20 and 21 (young workers): Relevant.

Fair labor standards act, Decree of the 8/10/90 (temporary work and contract last given): Not-applicable.

16. OTHER INFORMATION AND DISCLAIMER

LIST OF RELEVANT R-PHRASES AND NOTAS IN SECTION 3

R23 - Toxic by inhalation.

R36/37/38 - Irritating to eyes, respiratory system and skin.

This product material safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to insure safe workplace operations.

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.