1. Product and Company Identifaction

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Part Number RXSOL-44-2065-025

Product Name Corrosion Inhibitor for Carbon Dioxide and H2S

Company Details:

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

Stock Point: Mumbai, Muscat, Fujairah, Nairobi, Kolkata, Vizag, Chennai, Gandhidham, Canada

Phone +91 22 27815540 / 41 / 42

Fax +91 22 2781 1318 ::: AOH :0091 9821214367

Email <u>mail@rxmarine.com</u>

2. Composition / Information on ingredients

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

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

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

3. Hazards Identification

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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

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

NOTE TO PHYSICIAN

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:

EXTINGUISHING MEDIA

Not applicable

Not expected to burn. Use extinguishing media appropriate for

surrounding fire.

FIRE AND EXPLOSION HAZARD

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING

Not flammable or combustible.

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

STORAGE CONDITIONS

SUITABLE CONSTRUCTION MATERIAL

UNSUITABLE CONSTRUCTION MATERIAL SPECIFIC USE(S)
OXYGEN SCAVENGER

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 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

Teflon, Perfluoroelastomer, PTFE, TFE, FEP (encapsulated), HDPE (high density polyethylene), Viton, Neoprene, Polypropylene, Stainless Steel

304, Stainless Steel 316L, Nitrile, EPDM

Brass, Aluminum, Mild steel, Carbon Steel C1018

For specific dosages and customized applications please contact your

representative

given storage conditions

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

ENGINEERING MEASURES

The use of local exhaust ventilation is recommended to control emissions

PERSONAL PROTECTION GENERAL ADVICE

near the source. Laboratory samples should be handled in a fumehood. Provide mechanical ventilation of confined spaces

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 .

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

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

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

Wear chemical splash goggles. The applicable European standard can be found in EN 166

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

RESPIRATORY PROTECTION

HAND PROTECTION

SKIN PROTECTION

EYE PROTECTION

HYGIENE RECOMMENDATIONS

9. Physical and chemical properties

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PHYSICAL STATE Liquid APPEARANCE Yellow Clear ODOR Pungent FLASH POINT Not applicable SPECIFIC GRAVITY 1.035 (16 °C) SOLUBILITY IN WATER Complete pН VISCOSITY Calculated 10cst MELTING POINT -20 °C

INITIAL BOILING POINT

100 °C Calculated
VAPOR PRESSURE

2.2 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
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 SO2 may react with vapors from neutralizing amines and may produce a visible cloud of amine salt particles., Contact with strong acids (e.g.

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

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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 carcinogen

None of the substances in this product are listed as carcinogens by the International Agency for Research onCancer (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