Material Safety Data Sheet

Corrosion Inhibitor Pkr. Fluid CORIN 303 (RXSOL-81-8187-210)

1. Product and Company Identifaction

Product Name	CORIN 303 Corrosion Inhibitor Pkr. Fluid
Part Number	RXSOL-81-8187-210

Company Details:

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

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

Phone	+91 22 65113333 / 5555 / 9999
Fax	+91 22 2781 1318 :::AOH :0091 9821214367
Email	123@rxmarine.com
Website	www.rxmarine.com

2. Composition / informationon ingredients

Component	CAS-No.	Weight %	Health	Risk
Morpholine process residue	68909-77-3	30-60%	Xi	36/38
Proprietary Ingredients	NA	40-70%		

3. Hazards Identification

EMERGENCY OVERVIEW:

CAUSES EYE AND SKIN IRRITATION. Avoid contact with eyes and skin and clothing. Do not take internally. Wash thoroughly after handling.This product is a dark brown liquid Dike and contain spills. Keep out of sewers and waterways. Do not add nitrites - may form suspected cancer causing nitrosamines.

ACUTE EFFECTS:
INHALATION: Irritating to the respiratory tract if inhaled.
INGESTION: May cause gastric distress, nausea and vomiting if ingested.
SKIN: Severely irritating to the skin.
EYES: Severely irritating to the eyes. May cause severe eye injury.

4. First Aid Measures

General advice : Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Do not leave the victim unattended.

If inhaled : Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. Get medical attention.

In Case of Skin contact : Wash skin thoroughly with soap and water. Remove contaminated clothing. Get medical attention if any discomfort continues.

In case of eye contact : Promptly wash eyes with lots of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

If swallowed : If swallowed, Drink a couple of glasses water or milk. Do NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person. Get medical attention.

5. Fire-fighting Measures

FLASH POINT (°F)	:306 METHOD: PM Closed cup.
AUTO IGNITION TEMP. (°F)	:Not Determined
FLAMMABILITY LIMIT - LOWER(%)	:Not Determined
FLAMMABILITY LIMIT - UPPER(%)	:Not Determined

EXTINGUISHING MEDIA: Carbon dioxide (CO2). Dry chemicals. Foam. Water spray, fog or mist.

SPECIAL FIRE FIGHTING PROCEDURES: Wear positive-pressure, self-contained breathing apparatus(SCBA) and protective fire fighting clothing (including fire fighting helmet, coat, pants, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

UNUSUAL FIRE & EXPLOSION HAZARDS: No unusual fire or explosion hazards noted.

HAZARDOUS COMBUSTION PRODUCTS: Irritating gases/vapors/fumes. Ammonia or amines. Aldehydes. Ketones. Oxides of: Carbon. Nitrogen.

6. Accidental Release Measures

PERSONAL PRECAUTIONS: Wear proper personal protective equipment (see MSDS Section 8).

SPILL CLEAN-UP PROCEDURES: Absorb in vermiculite, dry sand or earth and place into containers. Rinse area with water. Dike far ahead of larger spills for later disposal. Do not contaminate drainage or waterways.

7. Handling and Storage

Handling: Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Wear full protective clothing for prolonged exposure and/or high concentrations. Eye wash and emergency shower must be available at the work place. Wash hands often and change clothing when needed.

Storage : Store at moderate temperatures in dry, well ventilated area. Keep in original container.

8. Exposure controls and personal protection

INGREDIENT COMMENTS: Exposure limits for Particulates Not Otherwise Classified (PNOC) apply to dust/mist/aerosol of the proprietary ingredients this product. * Exposure limit is for morpholine.

ENGINEERING CONTROLS: Use appropriate engineering controls such as, exhaust ventilation and process enclosure, to reduce air contamination and keep worker exposure below the applicable limits.

VENTILATION: Supply natural or mechanical ventilation adequate to exhaust airborne product and keep exposures below the applicable limits.

RESPIRATORS: If exposed to particulates/aerosols: Use at least a NIOSH-approved N 95 half-mask disposable or reuseable particulate respirator. If exposed to organic vapors: In work environments containing oil mist/aerosol use at least a NIOSH-approved P95 half-mask disposable or reuseable particulate respirator. Use a NIOSH/MSHA-approved organic vapor respirator. CCROV: CCR with organic vapor cartridge.

PROTECTIVE GLOVES: Chemical resistant gloves required for prolonged or repeated contact. Use protective gloves made of: Impermeable material. Such as, Neoprene, nitrile, polyethylene or PVC.

EYE PROTECTION: Wear chemical safety goggles where eye exposure is reasonably probable.

PROTECTIVE CLOTHING: Wear appropriate clothing to prevent repeated or prolonged skin contact.

HYGIENIC WORK PRACTICES: Wash promptly with soap and water if skin becomes contaminated. Change work clothing daily if there is any possibility of contamination.





Gloves Suit

9. Physical and chemical properties

Appearance/Physical State	:Liquid.
Color	:Dark. Brown.
Odor	:Ammonia
Solubility Description	:Soluble In Water.
Boiling Point (°F, Interval)	:760mmhg
Density/Specific Gravity	:1.04 - 1.08
Vapor Density (Air=1)	:>1
Vapor Pressure	: 1 Mmhg
Evaporation Rate	: 1 Reference
Ph-Value, Diluted Solution	: 9.5

10. Stability and reactivity

Stability : Normally Stable.
Conditions To Avoid : Avoid Heat.
Hazardous Polymerization: Will Not Polymerize.
Polymerization Description: Not Relevant.
Materials To Avoid: Strong Acids. Nitrites.
Hazardous Decomposition Products: No Specific Hazardous Decomposition Products Noted.

11. Toxicological information

TOXICOLOGICAL INFORMATION*:* No toxicological data is available for this product.

Toxicological data for major component(s): ***Component: Morpholine process residue***

TOXICOLOGICAL DATA:

Corrosive effects. Eye. Rabbit . > 80.0 (Draize) Extremely Irritating
Corrosive effects. Skin. Rabbit. > 6.5 (Draize) Extremely Irritating

TOXIC DOSE - LD 50: 8750 mg/kg (oral rat)
TOXIC DOSE - LD 50: 3850 mg/kg (skn-rbt)

12. Ecological information

ACUTE AQUATIC TOXICITY:

Passes mysid shrimp toxicity test required by Gulf of Mexico NPDES permit. LC50 values are typically >200,000 ppm.

13. Disposal considerations

WASTE MANAGEMENT:

This product does not meet the criteria of a hazardous waste if discarded in its purchased form. Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures, processes, etc, may render the resulting materials hazardous. Empty containers retain residues. All labeled precautions must be observed.

DISPOSAL METHODS:

Recover and reclaim or recycle, if practical. Should this product become a waste, dispose of in a permitted industrial landfill. Ensure that

containers are empty by RCRA criteria prior to disposal in a permitted industrial landfill.

Contaminated packaging : Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

14. Transport information

GENERAL: RQ = N/A

U.S. DOT:
U.S. DOT CLASS: Not regulated.

CANADIAN TRANSPORT:
TDGR CLASS: Not regulated.

SEA TRANSPORT:
IMDG CLASS: Not regulated.

AIR TRANSPORT:
ICAO CLASS: Not regulated.

15. Regulatory information

REGULATORY STATUS OF INGREDIENTS:

NAME: CAS No: TSCA: CERCLA: SARA 302: SARA 313: DSL(CAN):
Proprietary ingredients Yes No No No Yes
Morpholine process residue 68909-77-3 Yes No No No Yes

US FEDERAL REGULATIONS:
WASTE CLASSIFICATION: Not a hazardous waste by U.S. RCRA criteria. See Section 13.

REGULATORY STATUS: This Product or its components, if a mixture, is subject to following regulations (Not meant to be all inclusive - selected regulations represented):

SECTION 313: This product does not contain toxic chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372.

SARA 311 Categories: 1: Immediate (Acute) Health Effects. The components of this product are listed on or are exempt from the following international chemical registries:
TSCA (U.S.)
DSL (Canada)

STATE REGULATIONS:
STATE REGULATORY STATUS: This product or its components, if a mixture, is subject to following regulations (Not meant to be all inclusive - selected regulations represented): None.

PROPOSITION 65: This product does not contain chemicals considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 as causing cancer or reproductive toxicity, and for which warnings are now required.

NPCA HMIS HAZARD INDEX: 2 Moderate Hazard
FLAMMABILITY: 1 Slight Hazard
REACTIVITY: 0 Minimal Hazard

NPCA HMIS PERS. PROTECT. INDEX: J - Splash Goggles, Gloves, Synthetic Apron, Dust and Vapor Respirator.

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 Rx Marine International 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.

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