

Product Name: Mud Drilling Detergent RXSOL ORG DD

Part No / SKU: RXSOL-81-8139-025

Date of Issue: September 09, 2026

Document Type: Material Safety Data Sheet (MSDS)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name	<u>Mud Drilling Detergent Rxsol ORG DD</u>
Part Number	<u>Rxsol-81-8139-025</u>

Company Details:

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

Stock Point : Mumbai, Visakhapatna, Chennai, Kolkata, Gandhidham, Fujairah, Muscat, Canada, Kenya

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2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Concentration %	CAS Number
Alkenes, C14-20. alpha	60-100	68855-60-7
Barite	30-60	7727-43-7
Calcium Chloride	1-5	10043-52-4
Silica Crystline Quartz	1-5	14808-60-7
Fatty Amide	1-5	
Mica	1-5	12001-26-2
Calcium Hydroxide	1-5	1305-62-0

Composition Comments: Mud Drilling Detergent is a highly complex and variable blend of several proprietary products. Each drilling fluid is designed to meet the drilling requirements of a specific well. During the drilling process the composition and physical properties of the drilling fluid are constantly changing; therefore, a complete disclosure of a particular fluid's composition is impractical.

3. HAZARDS IDENTIFICATION

Odour	Mild
Appearance	Liquid, Tan to Gray
Contact with eyes	May irritate eyes.
Contact with skin	May be irritating to the skin..
Inhalation	Vapors or mists may be irritating to the respiratory tract.
Ingestion	May cause gastric distress, nausea and vomiting if ingested. Aspiration can be a hazard if this material is swallowed.

4. FIRST AID MEASURES

Contact with skin	Wash skin thoroughly with soap and water. Remove contaminated clothing and launder before reuse. Get medical attention if any discomfort continues.
Contact with eyes	Promptly wash eyes with lots of water while lifting eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.
Ingestion	Do not induce vomiting. Dilute with 2 - 3 glasses of water or milk, if conscious. Never give anything by mouth to an unconscious person. If signs of irritation or toxicity occur seek medical attention.
Inhalation	Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
General	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Aspiration may cause severe lung damage. Evacuate stomach in a way which avoids aspiration.

5. FIRE FIGHTING MEASURES

Flash Point: F (C): >200F (93C)

Flash Point Method: Estimated

Flammable Limits in Air - Lower (%): ND

Flammable Limits in Air - Upper (%): ND

Autoignition Temperature: F(C) ND

Flammability Class: IIIB

Other Flammable Properties: ND

Extinguishing Media: Water fog, carbon dioxide, foam, dry chemical.

Protection Of Fire-Fighters: Special Fire-Fighting Procedures:

Do not enter fire area without proper personal protective equipment, including NIOSH/MSHA approved self-contained breathing apparatus. Evacuate area and fight fire from a safe distance. Water spray may be used to keep fire-exposed containers cool. Keep water run off out of sewers and waterways.

Hazardous Combustion Products : Oxides of Carbon: Sulfur. Nitrogen. Calcium.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Wear protective clothing as per section 8.
Environmental Precautions	Do not allow to enter sewer or surface and subsurface waters. Waste must be disposed of in accordance with federal, state and local laws.
Spill v Procedure / Immediate Actions	Evacuate surrounding area, if necessary. Keep personnel removed and upwind of spill. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Shut off leak if it can be done safely. Contain spilled material. Absorb in vermiculite, dry sand or earth. Place into containers for disposal
Clean Up Actions	Absorb spillage in suitable inert material. Flush spill area with copious amounts of water.
Special Precautions	Wear protective clothing as per section 8

7. HANDLING AND STORAGE

Handling	Put on appropriate personal protective equipment. Avoid contact with skin and eyes. Avoid breathing vapors or spray mists. Use only in a well ventilated area. Wash thoroughly after handling
Storage	Store in dry, well-ventilated area. Keep container closed. Keep away from heat, sparks and flames. Store away from incompatibles. Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping and/or stacking.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal Protection	Wear chemical safety goggles. Wear appropriate clothing to prevent repeated or prolonged skin contact. Wear chemical resistant gloves such as nitrile or neoprene
Engineering Control	Local exhaust ventilation as necessary to maintain exposures to within applicable limits.
Respiratory Protection/ Occupational exposure controls	If exposed to particulates/aerosols: Use at least a NIOSH-approved N95 half-mask disposable particulate respirator. In work environments containing oil mist/aerosol use at least a NIOSH-approved P95 half-mask disposable or reusable particulate respirator. If exposed to organic vapors: Use a NIOSH/MSHA-approved organic vapor respirator. CCROV: CCR with organic vapor cartridge. A NIOSH/MSHA approved respirator with ammonia/methylamine cartridges should be used to protect against ammonia or amine inhalation exposure. Refer to Exposure Limits table (Section 8) for component specific respiratory protection recommendations.
General Hygiene Considerations	Work clothes should be washed separately at the end of each work day. Disposable clothing should be discarded, if contaminated with product. "Safe Handling Guide for Oil-Base and Synthetic-Base Fluid Systems" pamphlet is available from M-I's Occupational Health Department.



Gloves



Suit

Goggles

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Liquid
Appearance	:	Tan to Gray
Odor	:	Mild
Odor Threshold	:	ND
PH	:	ND
Melting / Freezing Point	:	ND
Boiling Point/Range	:	ND
Flash Point	:	> 200 F (93 °C)
Evaporation Rate	:	No information available.
Lower Explosion Limit	:	No data available.
Vapor Pressure	:	No data available.
Vapor Density	:	No data available.
Relative Density	:	1.0 - 2.5
Solubility in Water	:	Insoluble
Pour point	:	No data available
Partition coefficient n octanol/water	:	Not available.
Viscosity	:	No data available
Explosive Properties	:	Not applicable
Oxidizing Properties	:	Not applicable

10. STABILITY AND REACTIVITY

- This article is considered stable under normal conditions, No hazardous reactions known if used for its intended purpose
- See Section 5

11. TOXICOLOGICAL INFORMATION

Component Toxicological Data

Ingredient	CAS Number	Acute Data
Calcium chloride	10043-52-4	Oral LD50: 1000 mg/kg (rat)
Calcium hydroxide	1305-62-0	Oral LD50: 7340 mg/kg (rat) : Eye Draize 10 mg:Severe (rabbit)
Contact with eyes		Causes irritation.
Ingredient	Component Toxicological Summary	
Silica, crystalline, quartz	Crystalline silica is the most widely occurring of all minerals. The most common form of silica is sand. The International Agency for Research on Cancer (IARC) has designated crystalline silica in the form of quartz or cristobalite a Group 1 (carcinogenic to humans). This designation was based on an increased risk of lung cancer among crystalline silica exposed workers. IARC did note that carcinogenicity of crystalline silica in humans was not detected in all industrial circumstances studied. Further, carcinogenicity of crystalline silica may be dependent on inherent characteristics of the crystalline silica or external factors affecting its biological activity or distribution of polymorphs.	
Mica	Studies of workers with long term exposure to mica dust indicated a higher incidence of pneumoconiosis ("dusty lung" disease). Symptoms of pneumoconiosis may include chronic cough, dyspnea (shortness of breath) and fatigue. (HSDB)	

12. ECOLOGICAL INFORMATION

Ingredient	Cas Number	Data
Calcium Chloride	10043-52-4	TLm 96H standard water conditions: 9500 mg/l (bluegill); TLm 96H: 10,650 (sunfish); TLm 96H: 13,400 mg/l (mosquito fish); TLm 48H (sea water): 2400 mg/l (marine fish); LC50 120H static: 3130 mg/l (Nitzschia linearia)
Calcium Hydroxide	1305-62-0	TLm 96H: 160 ppm (mosquito fish)
Bioaccumulation Potential	:	Bioaccumulation of the components in this product not determine
Octanol/Water Partition Coefficient:	:	ND

13. DISPOSAL CONSIDERATIONS

Classification	EU Waste class: -
Disposal considerations	Do not discharge into drains or the environment, dispose to an authorised waste collection point Disposal should be in accordance with local, state or national legislation

14. TRANSPORT INFORMATION

- Not classified as hazardous for transport

15. REGULATORY INFORMATION

SARA 302/304, 313; CERCLA RQ, California Proposition 65:

Note: If no components are listed below, this product is not subject to the referenced SARA and CERCLA regulations and is not known to contain a Proposition 65 listed chemical at a level that is expected to pose a significant risk under anticipated use conditions.

International Chemicals Inventories :

Australia AICS - Contains a component(s) that is not listed. Canada DSL - Contains a component(s) that is listed on the NDSL. China Inventory - Contains a component that is not listed. European Union EINECS - Contains a component(s) that is a "No Longer Polymer". Japan METI ENCS - Contains a component that is not listed. Korea TCCL ECL - Components are listed or exempt from listing. Philippine PICCS - Contains a component that is not listed. U.S. TSCA - Components are listed or exempt from listing. U.S. TSCA - No components are subject to TSCA 12(b) export notification requirements.

Canadian WHMIS:

Controlled Products Regulations Statement: This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS Class:

D2A D2B

16. OTHER INFORMATION AND DISCLAIMER

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