Material Safety Data Sheet

Mud Drilling Detergent RXSOL ORG DD (RXSOL-81-8139-025)

1. Product and Company Identifaction

Product Name	**Mud Drilling Detergent Rxsol ORG DD**
Part Number	Rxsol-81-8139-025

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

Phone	91 22 65113333 / 5555 / 9999
Fax	91 22 2781 1318 :::AOH :0091 9821214367
Email	**mail@rxmarine.com**

2. Composition / informationon 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 fluidare constantly changing; therefore, a complete disclosure of a particular fluid'scomposition 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 ahazard if this material is swallowed.

4. First Aid Measures

Contact with skin	Wash skin thoroughly with soap and water. Remove contaminated clothing andlaunder 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 atleast 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 isdifficult, 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 whichavoids 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, includingNIOSH/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 bedisposed of in accordance with federal, state and local laws.
Spill vProcedure / Immediate Actions	Evacuate surrounding area, if necessary. Keep personnel removed and upwind of spill. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Shutoff leak if it can be done safely. Contain spilled material. Absorb in vermiculite, drysand 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. Washthoroughly 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 warehousingpractices regarding palletizing, banding, shrink-wrapping and/or stacking.

8. Exposure controls and 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. Inwork environments containing oil mist/aerosol use at least a NIOSH-approved P95half-mask disposable or reuseable particulate respirator.If exposed to organic vapors:Use a NIOSH/MSHA-approved organic vapor respirator. CCROV: CCR with organicvapor cartridge.A NIOSH/MSHA approved respirator with ammonia/methylamine cartridges shouldbe used to protect against ammonia or amine inhalation exposure.Refer to Exposure Limits table (Section 8) for component specific respiratoryprotection recommendations.
General Hygiene Considerations	Work clothes should be washed separately at the end of each work day. Disposableclothing should be discarded, if contaminated with product. "Safe Handling Guide for Oil-Base and Synthetic-Base Fluid Systems" pamphlet isavailable from M-I's Occupational Health Department.





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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

Ingrident	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.

Ingrident	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 Age Research on Cancer (IARC) has designatedcrystalline silica in the form of quartz or cristobalite a Group 1 (carcinog humans).This designation was based on an increased risk of lung cancer among crystalline silicaexposed workers. IARC d that carcinogenicity of crystalline silica in humans wasnot detected in all industrial circumstances studied. Further, carcinog of crystallinesilica may be dependent on inherent characteristics of the crystalline silica or externalfactors affecting its bio activity or distribution of polymorphs.
Mica	Studies of workers with long term exposure to mica dust indicated a higher incidence of pneumonconiosis ("dusty lung" dis Symptoms of pneumoconiosis may includechronic cough, dyspnea (shortness of breath) and fatigue. (HSDB)

12. Ecological information

Ingrident	Cas Number	Data
Calcium Chloride	10043-52-4	TLm 96H standard water conditions: 9500 mg/l(bluegill); TLm 96H: 10,650 (sunfish 96H:13,400 mg/l (mosquito fish); TLm 48H (sea water):2400 mg/l (marine fish); LC50 120H 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 PartitionCoefficient:	:	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 o

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 referencedSARA and CERCLA regulations and is not known to contain a Proposition 65 listedchemical at a level that is expected to pose a significant risk under anticipated useconditions.

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 theCPR and the MSDS contains all the information required by the CPR.

WHMIS Class:
D2A D2B

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 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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