

**Product Name:** ALKALINE HD coal remover**Part No / SKU:** RXSOL-22-3018-220**Date of Issue:** September 24, 2026**Document Type:** Material Safety Data Sheet (MSDS)

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

|              |   |                                                      |
|--------------|---|------------------------------------------------------|
| Product Name | : | ALKALINE HD coal remover <b>COAL REMOVER RX HOLD</b> |
| Product Type | : | <b>Cargo Hold Cleaner</b> RXSOL-22-3018-220          |

### Company Details:

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

Stock Point : Mumbai, Kandla, Chennai Ennore, Vizag Gangavaram, Kolkata Haldia, Fujairah, Muscat, Nairobi Kenya

|       |   |                                                            |
|-------|---|------------------------------------------------------------|
| Phone | : | +91 22 27815541 / 42                                       |
| Fax   | : | +91 22 2781 1318 ::AOH :0091 9821214367                    |
| Email | : | <a href="mailto:mail@rxmarine.com/">mail@rxmarine.com/</a> |

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemica Name                                            | CAS #     | % BY WEIGHT |
|---------------------------------------------------------|-----------|-------------|
| NaOCl                                                   | 7681-52-9 | 40-50       |
| Proprietary Blend of Surfactant and Corrosion Inhibitor | NA        | 60-40       |

### 3. HAZARDS IDENTIFICATION

|                           |                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye                       | Can cause permanent eye injury. Symptoms include stinging, tearing, redness, and swelling of eyes. Can injure the cornea and cause blindness.                                                                                                                                                                                                                            |
| Skin                      | Can cause permanent skin damage. Symptoms may include redness, burning, and swelling of skin, burns, and other skin damage. Additional symptoms of skin contact may include: skin blistering, hair loss, Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use. |
| Swallowing                | Swallowing this material may be harmful or fatal. Symptoms may include severe stomach and intestinal irritation (nausea, vomiting, diarrhea), abdominal pain, and vomiting of blood. Swallowing this material may cause burns and destroy tissue in the mouth, throat, and digestive tract. Low blood pressure and shock may occur as a result of severe tissue injury.  |
| Inhalation                | It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Breathing this material may be harmful or fatal. Symptoms may include severe irritation and burns to the nose, throat, and respiratory tract.                                                                                 |
| Target Organ Effects      | This material (or a component) has been shown to lower activity of certain immune system cells in experimental animals. The significance of this effect with respect to human health is uncertain.                                                                                                                                                                       |
| Developmental Information | There are no data available for assessing risk to the fetus from maternal exposure to this material.                                                                                                                                                                                                                                                                     |
| Primary Route(s) of Entry | Inhalation, Skin contact, Eye contact.                                                                                                                                                                                                                                                                                                                                   |

### 4. FIRST AID MEASURES

|                    |                                                                                                                                                                                                                                                                                                                            |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eyes               | If material gets into the eyes, immediately flush eyes gently with water for at least 15 minutes while holding eyelids apart. If symptoms develop as a result of vapor exposure, immediately move individual away from exposure and into fresh air before flushing as recommended above. Seek immediate medical attention. |
| Skin               | Immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes. Seek immediate medical attention. Wash clothing before reuse and discard contaminated shoes.                                                                                                                     |
| Swallowing         | Seek immediate medical attention. Do not induce vomiting. Vomiting will cause further damage to the mouth and throat. If individual is conscious and alert, immediately rinse mouth with water and give milk or water to drink. If possible, do not leave individual unattended.                                           |
| Inhalation         | If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention, keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.                                                              |
| Note to Physicians | Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin, lung (for example, asthma-like conditions), immune system.                                                                                                                                          |

## 5. FIRE FIGHTING MEASURES

|                                  |                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flash Point                      | Not applicable                                                                                                                                                                                                                                                                                                                                |
| Explosive Limit                  | Not applicable                                                                                                                                                                                                                                                                                                                                |
| Autoignition Temperature         | No data                                                                                                                                                                                                                                                                                                                                       |
| Hazardous Products of Combustion | NA                                                                                                                                                                                                                                                                                                                                            |
| Fire and Explosion Hazards       | No special fire hazards are known to be associated with this product.                                                                                                                                                                                                                                                                         |
| Extinguishing Media              | Use an extinguishing media appropriate for surrounding fire..                                                                                                                                                                                                                                                                                 |
| Fire Fighting Instructions       | Water may be used to keep fire-exposed containers cool until fire is out. Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS. |

## 6. ACCIDENTAL RELEASE MEASURES

|             |                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Small Spill | Dilute with water and absorb onto a noncombustible absorbent material.                                                                                                                                                                                                                                                                                                                |
| Large Spill | Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred. Collect and add slowly to large volume of water. Persons not wearing protective equipment should be excluded from area of spill until clean-up is completed. Stop spill at source. Dike to prevent spreading. Pump to salvage tank. |

## 7. HANDLING AND STORAGE

|          |                                                                                                                                                                                                                                                                                                                                |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Handling | Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Emergency eyewash fountains and safety showers should be available in the immediate vicinity of potential exposure |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

|                         |                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye Protection          | Chemical splash goggles and face shield (8" min.) in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. (Consult your industrial hygienist.)                                                                                                                                                                     |
| Skin Protection         | Wear impervious gloves (consult your safety equipment supplier). To prevent skin contact, wear impervious clothing and boots..                                                                                                                                                                                                                                               |
| Respiratory Protections | If overexposure has been determined or documented, a NIOSH/MSHA jointly approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators under specified conditions. (See your safety equipment supplier.) Engineering or administrative controls should be implemented to reduce exposure. |
| Engineering Controls    | Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below level of over exposure (from known, suspected or apparent adverse effects).                                                                                                                                                                                              |
| Exposure Guidelines     | Component                                                                                                                                                                                                                                                                                                                                                                    |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                        |  |                                               |
|------------------------|--|-----------------------------------------------|
| Boiling Point          |  | For component 212.0 F (100.0 C)               |
| Vapor Pressure         |  | For component) 17.500 mmHg                    |
| Specific Vapor Density |  | No data                                       |
| Specific Gravity       |  | >1 @ 68.00 F                                  |
| Liquid Density         |  | 10.400 lbs/gal @ 68.00 F 1.250 kg/l @ 20.00 C |
| Percent Volatiles      |  | 87.5%                                         |
| Evaporation Rate       |  | SLOWER THAN ETHYL ETHER                       |
| Appearance             |  | No data                                       |
| State                  |  | LIQUID                                        |
| Physical Form          |  | HOMOGENEOUS SOLUTION                          |
| Color                  |  | CLEAR TO YELLOW LIQUID                        |
| Odor                   |  | CHLORINATED                                   |
| pH                     |  | 12.5-13.50                                    |
| Solubility in Water    |  | SOLUBLE                                       |

## 10. STABILITY AND REACTIVITY

|                          |  |                                                    |
|--------------------------|--|----------------------------------------------------|
| Hazardous Polymerization |  | Product will not undergo hazardous polymerization. |
|--------------------------|--|----------------------------------------------------|

- This article is considered stable under normal conditions
- Avoid overheating, Keep away from frost
- Incompatible with acid

## 11. TOXICOLOGICAL INFORMATION

|                           |                                                                                                                                                    |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Toxicological information | No experimental data available.                                                                                                                    |
| Inhalation                | Can cause damage to the respiratory system.                                                                                                        |
| Contact with skin         | Causes severe burns (R35).                                                                                                                         |
| Contact with eyes         | Causes severe burns (R35).                                                                                                                         |
| Ingestion                 | The ingestion of significant quantities may cause burning sensation. The ingestion of significant quantities may cause damage to digestive system. |
| Carcinogenicity           | No evidence of carcinogenic effects.                                                                                                               |

## 12. ECOLOGICAL INFORMATION

|                                  |                                                                                                                                                                                      |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ecotoxicity                      | In general, this cleaning agent biodegradable to the environment, its main ingredients will either dissolve rapidly and dissociate in water or are readily/inherently biodegradable. |
| Mobility                         | Completely soluble in water                                                                                                                                                          |
| Persistence and Biodegradability | Its main ingredients will either dissolve rapidly and dissociate in water or are readily / inherently biodegradable.                                                                 |
| Bioaccumulation Potential        | Bioaccumulation of the components in this product is insignificant.                                                                                                                  |
| Other Adverse Effects            | No effects in the environment. No environmental problems are expected when the product is used / handled correctly.                                                                  |

## 13. DISPOSAL CONSIDERATIONS

|                         |                                                                                                    |
|-------------------------|----------------------------------------------------------------------------------------------------|
| Classification          | This material and/or its container must be disposed of as disposal waste. EU Waste class: 06 02 02 |
| Disposal considerations | Disposal should be in accordance with local, state or national legislation                         |

## 14. TRANSPORT INFORMATION

|                          |                                             |
|--------------------------|---------------------------------------------|
| DOT Information          | 49 CFR 172.101                              |
| DOT Description:         | Mixture HYPOCHLORITE SOLUTIONS,8,UN1791,III |
| Container/Mode:          | 55 GAL DRUM/TRUCK PACKAGE                   |
| NOS Component:           | Not applicable                              |
| RQ (Reportable Quantity) | - 49 CFR 172.101                            |
| Product Quantity (lbs)   | Component                                   |

## 15. REGULATORY INFORMATION

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No  
SARA 311/312: Acute: Yes Chronic: No Fire: No Pressure: No  
Reactivity: No (Mixture / Liquid)

Australian Hazchem Code: None allocated.

Poison Schedule: S5

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR

## 16. OTHER INFORMATION AND DISCLAIMER

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

R35: Causes severe burns. R41: Risk of serious damage to eyes. The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents. The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties. The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer

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