

# Material Safety Data Sheet

Chlorinated Detergent (RXSOL-12-1215-025)



## 1. Product and Company Identification

Product Name Chlorinated Detergent  
Part Number RXSOL-12-1215-025

**Company Details:**  
**RX MARINE INTERNATIONAL**  
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## 2. Composition / information on ingredients

| Name of Substance   | Cas Number  | Wight %  |
|---------------------|-------------|----------|
| Sodium Metasilicate | 10213-79-3  | 10 - 15% |
| Sodium Hypochlorite | 7681-52-9   | 15 - 20% |
| Sodium Hydroxide    | 1310-73-2   | 1 - 5%   |
| Surfactant          | Proprietary | 5 - 10%  |

## 3. Hazards Identification

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazard Statements                   | Causes severe skin burns and serious eye damage.<br>May be corrosive to metals.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Precautionary prevention statements | P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Precautionary response statements   | Do not breathe dust or mist. P260. Wash skin thoroughly after handling. P264 .Wear protective gloves/clothing and face protection. P280.IF SWALLOWED: Rinse mouth. Do NOT induce vomiting P301 + P330 + P331 .IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse the skin with water. P303 + P361 + P353.IF INHALED: Remove person to fresh air and keep comfortable for breathing. P304 + P340.IF IN EYES: Rinse cautiously for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305 + P351 + P338<br>Immediately call a POISON CENTRE. P310 Specific treatment, see supplemental first aid instruction (section 4). P321 Store locked up. P405 |

## 4. First Aid Measures

|              |                                                                                                                                                                                                                                                                                                      |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye Contact  | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required                                                                                                                                                                     |
| Skin Contact | In case of contact, immediately flushes skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used.Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention. |
| Inhalation:  | Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur.                                                                                                                                                                                      |

Ingestion: Do not induce vomiting. Obtain medical attention. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain an open airway and prevent aspiration.

Notes to Physician Treat symptomatically

## 5. Fire-fighting Measures

|                                            |                                                                                                                                        |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Flammability                               | Non flammable.                                                                                                                         |
| Flash Point                                | No information available.                                                                                                              |
| Suitable extinguishing media               | Water spray. Carbon dioxide (CO <sub>2</sub> ). Dry chemical. Chemical foam.                                                           |
| Hazardous combustion products              | Thermal decomposition can lead to release of irritating gases and vapors.                                                              |
| Protective Equipment                       | As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. |
| Specific Hazards Arising from the Chemical | Not combustible. Ambient fire may liberate hazardous vapours.                                                                          |

## 6. Accidental Release Measures

|                                                    |                                                                                                                                                                                                                                                                                |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Spillage                                           | Use appropriate tools to put the spilled solid in a convenient waste disposal container. If necessary: dilute with water.                                                                                                                                                      |
| Personal Protection                                | Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.                                                                                                                                                                                      |
| Environmental Precaution                           | Do not rinse spill onto the ground, into storm sewers or bodies of water                                                                                                                                                                                                       |
| Methods and materials for containment and cleaning | Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13) |

## 7. Handling and Storage

|                                        |                                                                                                                                 |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Handling                               | Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.                          |
| Storage                                | Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep from freezing. |
| Advice on general occupational hygiene | Acids. Strong oxidizing agents. Ammonia. Reactive metals such as aluminum, zinc and tin.                                        |

## 8. Exposure controls and personal protection

|                        |            |                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Engineering Control    |            | Provide good general ventilation. If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered. Eye wash stations and shower facilities should be readily accessible in areas where the product is handled. |
| Personal Protection    |            | Wear splash goggles. For severe use-conditions, wear a face shield over the goggles. Skin and Body Protection: Wear rubber or other chemical-resistant gloves. Use of impervious apron, boots and other protective equipment should be considered in order to prevent or minimize contact with this product.                                                       |
| Other Measure          | Protection | Not required with expected use.<br>If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for the use-conditions and chemicals in Section 3 should be considered.                                                                                                                         |
| General Considerations | Hygiene    | Wash hands and any exposed skin thoroughly after handling. See 29 CFR 1910.132-138 for further guidance.                                                                                                                                                                                                                                                           |



Gloves



Suit

## 9. Physical and chemical properties

|                              |                           |
|------------------------------|---------------------------|
| Form                         | Liquid                    |
| Colour                       | Clear / Yellow            |
| Odour                        | Slight Chlorine           |
| Odor Threshold               | Not Applicable            |
| pH                           | 12.5 - 13.5               |
| Melting Point/Freezing Point | No Information Available  |
| Boiling Point                | 100 °C / 212 °F           |
| Flash Point                  | No Information Available  |
| Evaporation Rate             | 1 (Butyl acetate = 1)     |
| Flammability (solid, gas)    | Non Flammable             |
| Explosive limits             | No Data Available         |
| Vapour pressure              | No Data Available         |
| Vapour Density               | No Data Available         |
| Specific Gravity             | 1.1 - 1.15                |
| Partition coefficient        | No data available         |
| Explosive properties         | None                      |
| Solubility                   | Soluble in water          |
| Ignition temperature         | No information available. |
| Auto-ignition temperature    | No information available. |
| Viscosity, dynamic           | No information available. |

## 10. Stability and reactivity

|                                    |                                                                                                                                                                                      |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                         | This material is considered to be non-reactive under normal conditions of use.                                                                                                       |
| Stability                          | Stable under normal conditions.                                                                                                                                                      |
| Possibility of hazardous reactions | Contact with acids releases chlorine gas. Contact with ammonia releases chloramine gas. Contact with aluminum or other reactive metals may release hydrogen gas.                     |
| Conditions to avoid                | High temperature accelerates decomposition of product.                                                                                                                               |
| Incompatible materials             | Acids. Strong oxidizing agents. Ammonia. Reactive metals such as aluminum, zinc and tin.                                                                                             |
| Hazardous Products                 | Decomposition May include carbon monoxide, carbon dioxide (CO <sub>2</sub> ) and other toxic gases or vapors. Releases oxygen when heated to decomposition which may intensify fire. |

## 11. Toxicological information

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rout Of Entry          | Inhalation. Ingestion.                                                                                                                                                                                                                                                                                                                                                                                         |
| Toxicity to Animal     | Acute oral toxicity<br>Chemical Name      Oral LD50      Dermal LD50      Inhalation LC50<br>water      > 90 mL/kg ( Rat )      Not Available      Not Available<br>sodium hydroxide      Not Available      = 1350 mg/kg ( Rabbit )      Not Available<br>sodium hypochlorite      8200 mg/kg ( Rat ) > 10000 mg/kg ( Rabbit )      Not Available                                                             |
| Toxic Effects on Human | Eye Contact: Pain, redness, swelling of the conjunctiva and tissue damage. Eye contact may cause permanent damage. Skin Contact: Pain, redness, blistering and possible chemical burn. Inhalation: Irritation or damage to the mucus membranes of the respiratory tract. Nasal discomfort and coughing. Ingestion: Damage or chemical burns to mouth, throat and stomach. Pain, nausea, vomiting and diarrhea. |
| Chronic Effects        | Data not available or insufficient for classification.                                                                                                                                                                                                                                                                                                                                                         |

## 12. Ecological information

|                                    |                                                                                             |
|------------------------------------|---------------------------------------------------------------------------------------------|
| Eco Toxicity                       | Not Available                                                                               |
| COD and BOD 5                      | Not Available                                                                               |
| Products Biodegradation:           | No Information available                                                                    |
| Mobility in soil                   | No Information available                                                                    |
| Results of PBT and vPvB assessment | PBT/vPvB assessment not available as chemical safety assessment not required/not conducted. |
| Other adverse effects              | Harmful. Forms corrosive mixtures. Discharge into the environment must be avoided.          |

## 13. Disposal considerations

|                        |                                                                                                                                                                                                                   |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste treatment Method | Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 14. Transport information

DOT/TDG/IATA

|                      |        |                                                                            |
|----------------------|--------|----------------------------------------------------------------------------|
| UN                   | Number | UN 1760                                                                    |
| Proper shipping name |        | Corrosive Liquids, n.o.s.,(contains sodium hydroxide, sodium hypochlorite) |
| Hazard Class         |        | 8                                                                          |
| Packing group        |        | II                                                                         |

#### **IMDG/IMO**

|                      |        |                                                                            |
|----------------------|--------|----------------------------------------------------------------------------|
| UN                   | Number | UN 1760                                                                    |
| Proper shipping name |        | Corrosive Liquids, n.o.s.,(contains sodium hydroxide, sodium hypochlorite) |
| Hazard Class         |        | 8                                                                          |
| Packing group        |        | II                                                                         |

## **15. Regulatory information**

Federal and State (Toxic Substance Control Act Section 8(b) Inventory).All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

Other Regulation SARA 313  
This product does not contain listed substances above the "de minimus" level

WHMIS (Canada) CLASS E: Corrosive solid.

DSCL (EEC) R8- Contact with combustible material may cause fire. R31- Contact with acids liberates toxic gas. R36/38- Irritating to eyes and skin. S28- After contact with skin, wash immediately with plenty of water. S36/37/39- Wear suitable protective clothing, gloves and eye/face protection. S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

#### **HMIS**

Health Hazard : 3  
Fire Hazard : 0  
Reactivity : 0  
Personal Protection : E

#### **Fire :**

Health Hazard : 1  
Fire Hazard : 0  
Reactivity : 0  
Specific Hazard :

## **16. Other information**

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