Material Safety Data Sheet

Chlorinated Detergent (RXSOL-12-1215-025)

1. Product and Company Identifaction

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

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

Phone	+91 22 27815540 / 41 / 42
Fax	+91 22 2781 1318 :::AOH :0091 9821214367
Email	123@rxmarine.com
Website	www.rxmarine.com

2. Composition / informationon 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	Proprietory	5 - 10%

3. Hazards Identification

Hazard Statements	Causes severe skin burns and serious eye damage. May be corrosive to metals.
Precautionary statements prevention	P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Precautionary statements response	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, it present and easy to do. Continue rinsing. P305 + P351 + P338 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 flamable.
Flash Point	No information available.
Suitable extinguishing media	Water spray. Carbon dioxide (CO 2). 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.
Enviromental 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 Protection Measure	Not required with expected use. 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 Hygiene Considerations	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 Decomposition Products	May include carbon monoxide, carbon dioxide (CO2) and other toxic gases or vapors. Releases oxygen when heated to decomposition which may intensify fire.

Hazardous Polymerization	Hazardous polymerization does not occur.Hazardous Reactions None under normal processing.

11. Toxicological information

Rout Of Entry	Inhalation. Ingestion.
Toxicity to Animal	Acute oral toxicity Chemical Name Oral LD50 Dermal LD50 Inhalation LC50 water > 90 mL/kg (Rat) Not Available Not Available sodium hydroxide Not Available = 1350 mg/kg (Rabbit) Not Available 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

Fedral and State Regulation	(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

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 weassume 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.