Material Safety Data Sheet

Solar Bright Detergent (RXSOL-37-3701-025)

1. Product and Company Identifaction

Product Name	: Solar Bright Detergent
Part Number	: RXSOL-37-3701-025

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

Stock Point : Mumbai, Nairobi, Fujairah, Muscat, Gandhidham, Kolkata, Chennai, Vizag, Canada

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	Wt.%
Sodium Hydroxide	1310-73-2	10 -30 %
Poly(oxy-1,2-ethanediyl), a-(2-propylheptyl)-whydroxy	160875-66-1	10 - 30%
Alcohol Ethoxylate	68551-12-2	10 - 30%
Proprietory Mixture of Ionic Surfactant	---------	10 - 30%

3. Hazards Identification

Signal Word	Danger
Hazard Statements	May be corrosive to metals. Causes severe skin burns and eye damage.
Precautionary statements - prevention	Keep only in original container. Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection..
Precautionary statements - response	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage. **Storage:** Store locked up. Store in corrosive resistant stainless steel container with a resistant inner liner. **Disposal:** Dispose of contents/ container to an approved waste disposal plant.

4. First Aid Measures

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
Inhalation:	If inhaled, If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
Ingestion:	If swallowed, do not induce vomiting. Allow victim to rinse his mouth and then to drink 2-4 cupfuls of water. Never give anything by mouth to an unconscious person. Call a physician.
Notes to Physicians	Treat symptomatically.

5. Fire-fighting Measures

Flammability	Non Flammable.
Flash Point	Not Determine
Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Protective Equipment	Use personal protective equipment.
Hazardous combustionproducts	Decomposition products may include the following materials: Carbon oxides, Nitrogen oxides (NOx) ,Sulfur oxides,Oxides of phosphorus.
Advice for firefighters	Wear self-contained breathing apparatus. Wear full protective equipment.
Specific extinguishing methods	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
Enviromental Precaution	Do not allow contact with soil, surface or ground water.
Methods and materials for containment and cleaning up	Stop leak if safe to do so. Contain spillage, and then collect with noncombustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

7. Handling and Storage

Advice on safe handling	Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Wash hands thoroughly after handling.
Storage	Do not store near acids. Keep out of reach of children. Store in suitable labeled containers. Storage temperature : 10 °C to 50 °C
Advice on general occupational hygiene	Wash hands after use. Do not to eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas.

8. Exposure controls and personal protection

Engineering Control: Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

Personal Protection: **Eye protection :** Wear eye protection/ face protection.
Hand protection : Wear the following personal protective equipment: Standard glove type. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. **Skin protection :**Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing **Respiratory protection :** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Exposure Limits:

Ingredients	CAS No	Form of exposure	Permissible concentration	Basis
Sodium Hydroxide	1310-73-2	Ceiling	2 mg/m3	ACGIH
		Ceiling	2 mg/m3	NIOSH REL
		TWA	2 mg/m3	OSHA Z1

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.



Gloves



Suit

9. Physical and chemical properties

Form	Emulsion Liquid
Colour	Opaque, yellow
Odour	Slight
Boiling point and boiling range	100°C
Flash Point	Not applicable, Does not sustain combustion.
Freezing Point	No Data Available
pH	13.0 - 14.0, 100 %
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper explosion limit	No data available
Lower explosion limit	No data available
Explosive properties	No data available
Vapor pressure	No data available
Relative vapor density	No data available
Relative density	1.207 - 1.275
Water solubility	Soluble
Solubility in other solvents	No data available
Partition coefficient: octanol	No data available
Autoignition temperature	No data available
Thermal decomposition	No data available
Viscosity, kinematic	2,018.131 mm2/s (40 °C)
Explosive properties	No data available
Oxidizing properties	No data available
Molecular weight	No data available
VOC	No data available

10. Stability and reactivity

Recativity	None
Stability	Stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Incompatible materials	Acids Metals Organic materials
Hazardous Decomposition	Decomposition products may include the following materials: Carbon oxides Nitrogen oxides (NOx) Sulfur oxides Oxides of phosphorus
Condition to Avoid	None Known
Polymerization	Will not occur.

11. Toxicological information

Route of Exposure	Inhalation, Eye contact, Skin contact Potential Health Effects
Eyes	Causes serious eye damage.
Skin	Causes severe skin burns.
Ingestion	Causes digestive tract burns
Inhalation	May cause nose, throat, and lung irritation.

Chronic Exposure	Health injuries are not known or expected under normal use.
Acute oral toxicity	Acute toxicity estimate : > 5,000 mg/kg
Acute inhalation toxicity	No data available
Acute dermal toxicity	No data available
Skin corrosion/irritation	Causes severe burns
Serious eye damage/ irritation	Irreversible effects on the eye
Respiratory / skin sensitization	No data available
Carcinogenicity	No data available
Reproductive effects	No data available
Germ cell mutagenicity	No data available
Teratogenicity	No data available
STOT-single exposure	No data available
Aspiration toxicity	No data available
Acute dermal toxicity	Alcohol ethoxylate LD50 Rabbit: > 2,000 mg/kg

12. Ecological information

Environmental Effects	Harmful to aquatic life
Toxicity to fish	No data available
Toxicity to daphnia and others	No data available
Toxicity to algae	No data available
Toxicity to fish	Alcohol Ethoxylate 96 h LC50 Fish: 1.5 mg/l
Toxicity to daphnia and other aquatic invertebrates	Sodium Hydroxide 48 h EC50: 40 mg/l poly(oxy-1,2-ethanediyl), a-(2-propylheptyl)-w-hydroxy 48 h EC50 Daphnia: 10 mg/l
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Mobility in soil	No data available

13. Disposal considerations

Remarks	Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.
Waste Disposal	The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility

14. Transport information

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

UN Number	1824
Proper shipping name	Sodium hydroxide solution
Class	8
Packing Group	II
Environmentally hazardous	No

International Maritime Dangerous Goods Code (IMDG) : Not Regulated

UN Number	**1824**
Proper shipping name	**Sodium hydroxide solution**
Class	**8**
Packing Group	**II**
Environmentally hazardous	**No**
Marine Pollutant	**No**

15. Regulatory information

SARA 304 Extremely Hazardous Substances Reportable Quantity	This material does not contain any components with a section 304 EHS RQ.
SARA 311/312 Hazards	Acute Health Hazard
SARA 302	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

HMIS

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

Fire :

Health Hazard	: 3
Fire Hazard	: 0
Reactivity	: 0
Specific Hazard	: 0

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 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.