Material Safety Data Sheet

Radiator External Cleaner (RXSOL-41-4051-026)

1. Product and Company Identifaction

Porduct Name	COIL Brite C SHINE Alkaline
Part Number	RXSOL-15-1668-003

Company Details:

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

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2. Composition / informationon ingredients

Product name	Cas No	Weight
Potassium Hydroxide	35 – 40 %	35-40 %
Sodium Hydroxide	1310-73-2	20 - 45 %
Surfactants & Dihydrogen monoxide	7732-18-5	15 – 20 %

3. Hazards Identification

Signal Word	Danger
Inhalation	May cause respiratory tract irritation or chemical burns.
Potential short term health effects	Burns of eyes, skin, and mucous causes eye burns and skin burns.
Routes of exposure	Eye, skin contact, inhalation, and ingestion.
Eyes	Causes chemical burns. May cause blindness.
Ingestion	Harmful if swallowed. Causes chemical burns to mouth, throat and stomach.
Target Organ	Eyes, Respiratory system and skin.
Chronic effect	Prolonged or repeated exposure to dilutions can cause drying and defatting.

4. First Aid Measures

Eye Contact	Immediately flush with plenty of water for 15 minutes. Call a physician if irritation persists or if chemical burns are present.
Skin Contact	Remove Contaminated clothing and wash affected area with soap and water. Call a physician if irritation persists or if chemical burns are present.
Inhalation	Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Call a physician.
Ingestion	Do not induce vomiting. Give 2-3 glass of water. Call a physician immediately.
Skin Contact	In case of skin contact Take off immediately all contaminated clothing. Rinse skin with water/ shower.
Inhalation	No data available
Ingestion	No data available
Notes to physician	Treat patient symptomatically.

General Advice	If you feel unwell, seek medical advice (show the label where possible.) Ensure that medical personnel are aware of the material involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Keep out of reach of children.

5. Fire-fighting Measures

Flammable Properties	Not flammable by WHMIS criteria
Extinguishing media	Dry chemical, Water spray, Carbon dioxide, Foam
Unsuitable extinguishing media	Not available
Specific hazards arising from the chemical	Not available
Protective equipment for fire fighters	Fire fighters should wear full protective clothing including self- contained breathing.
Hazardous combustion products	May include and are not limited to oxides of carbon.
Advice for firefighters	In the event of fire, wear self-contained breathing apparatus
Sensitivity to static discharge No	No data available
Sensitivity to mechanical impact	No data available

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Do not touch or walk-through spilled material. Do not touch damaged container. Keep people away from upwind of spill/ leak.
Environmental precautions	Do not discharge into lakes, streams, ponds or public water.
Personal Protection	No data available
Enviromental Precaution	Do not let product enter drains. Risk of explosion.
Methods and materials for containment and cleaning	Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent. Prevent large spills from entering sewers or waterways.

7. Handling and Storage

Handling	Ensure adequate ventilation. Do not get in eyes, on skin or on clothing. Use good industrial hygiene practices in handling this material.
Storage	Keep out of the reach of children. Store in a closed container away from incompatible materials.

8. Exposure controls and personal protection

Exposure controls	Personal protective equipment
Engineering Control	General ventilation normally adequate.
Eye/face protection	Wear chemical goggles
Hand protection	Rubber gloves. Confirm with a reputable supplier first.
Skin protection	As required by employer code. Rubber apron recommended.
Respiratory protection	Avoid breathing mist or vapours
Other Protection Measure	No data available

9. Physical and chemical properties

Physical state	Liquid
Colour	Pale Yellow
Odour	Characteristic, Mild
Freezing Point	0°C (32° F)
pH	13

Melting Point	No data available
Boiling Point	100° C
Flash Point	No data available
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Explosive limits	No data Available
Upper/lower flammability or explosive limits	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Vapour pressure	No data available
Viscosity	No data available
Density	No data available
Relative Density	No data available
Specific Gravity	1.2+/- 0.005
Partition coefficient	No data available
Explosive properties	No data available
Solubility	No data available
Ignition temperature	No data available
Particle characteristics	No data available

10. Stability and reactivity

Reactivity	Reacts violently with acids.
Chemical stability Conditions to avoid	Stable under recommended storage conditions. Hazardous vapours may be produced when mixed with chlorinated detergents or sanitizers. Do not mix with other chemicals.
Possibilityof hazardous reactions	This product may react with oxidizing agent. Hazardous polymerization does not occur
Conditions to avoid	Strong heating.
Incompatible materials	Bases, Oxidizing agents, Reducing agents
Hazardous decomposition products	In the event of fire: see section 5

11. Toxicological information

Components	Species	Test Results
Potassium Hydroxide –Acute		
Acute		
Dermal	Not Available	
Inhalation	Not Available	
Oral- LD50	Rat	273 mg/kg
Sodium Hydroxide- Acute		
Dermal -LD50	Rabbi	1350 mg/kg
Inhalation	Not Available	Not Available
Effects of acute exposure		
Eye contact	Causes chemical burn. May cause blindness	Not Available
Skin contact	Causes chemical burns. Harmful contact may not cause immediate pain	Not Available
Inhalation	May cause respiratory tract irritation or chemical burns.	Not Available

Ingestion	Harmful if swallowed
Sensitization	Non-Hazardous by WHMIS criteria
Chronic effects	Non-Hazardous by WHMIS criteria
Carcinogenicity	Non-Hazardous by WHMIS criteria

Mutagenicity	Non-Hazardous by WHMIS criteria
Reproductive effects	Non-Hazardous by WHMIS criteria
Teratogenicity	Non-Hazardous by WHMIS criteria
Name of Toxicologically synergistic products	Not available.

12. Ecological information

Eco toxicity — Components of this product have been identified as having potential environmental concerns

Eco toxicological data

Components	Species	Test Results
Sodium Hydroxide (CAS 1310-73-2)	Not available.	Not available.
Aquatic	Not available.	Not available.
Crustacea EC50	Water Flea (Ceriodaphnia dubia) 3	34.59 – 47.13 mg/l, 48 hours
Fish LC50	Western mosquitofish (Gambusia affinis)	125 mg/l, 96 hours

13. Disposal considerations

Disposal Instructions	Dispose in accordance with all applicable regulations.
Waste from residues / unused products	No data available
Contaminated Packaging	No data available

14. Transport information

UN number	3266
Proper Shipping Name	CORROSIVE LIQUID, BASIC INORGANIC, N.O.S. (Sodium Hydroxide)
Hazard Class	8
Packaging group	III
Special precautions for user	16

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture	This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
WHMIS status	Controlled
WHMIS Classification	Class E – Corrosive Material

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.