Material Safety Data Sheet

Coil Brite RXSOL Yellow (RXSOL-16-1680-005)

1. Product and Company Identifaction

Product Name	RXSOL-16-1680-005
Product Type	Coil Brite Rx YELLOW

Company Details:

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

Stock Point : Mumbai, Kolkata, Chennai, Kandla, Visakhapatnam, Fujairah, Muscat, Nairobi

Phone	+91 22 65113333 / 5555 / 9999
Fax	+91 22 2781 1318 :::AOH :0091 9821214367
Email	mail@rxmarine.com

2. Composition / informationon ingredients

OSHA Hazardous Components (29 CFR 1910.1200):

	CAS Registry No.	OSHA PEL	ACGIH TLV	Other Limits	% (Optional)
Polyglycoside	110615-47-9				10-20
Hydrofluoric Acid	7664-39-3	3 ppm as F	3 ppm (C) as F	6 ppm as F	15
Phosphoric Acid	7664-38-2	1 mg/m3	1 mg/m3	(STEL) 3 mg/m3	15
Non Hazardous Proprietory Ingredients	Proprietory Blend of RICE BRAN derivative ::: 30 % WATER :::20 % LABSA Bio :::10% Alcohol ::: 10% Colour Pigments	----------	----------	----------	70

3. Hazards Identification

EMERGENCY OVERVIEW:
POISON! DANGER! CORROSIVE. EXTREMELY HAZARDOUS LIQUID AND VAPOR. CAUSES SEVERE BURNS WHICH MAY NOT BE IMMEDIATELY PAINFUL OR VISIBLE. MAY BE FATAL IF SWALLOWED OR INHALED. LIQUID AND VAPOR CAN BURN SKIN, EYES AND RESPIRATORY TRACT. CAUSES BONE DAMAGE. REACTION WITH CERTAIN METALS GENERATES FLAMMABLE AND POTENTIALLY EXPLOSIVE HYDROGEN GAS.

POTENTIAL HEALTH EFFECTS
Exposure to hydrofluoric acid can produce harmful health effects that may not be immediately apparent.

EYE CONTACT:
Corrosive to the eyes. Symptoms of redness, pain, blurred vision, and permanent eye damage may occur.

SKIN CONTACT:
Corrosive to the skin. Skin contact causes serious skin burns which may not be immediately apparent or painful. Symptoms may be delayed 8 hours or longer. The fluoride ion readily penetrates the skin causing destruction of deep tissue layers and even bone.

INHALATION:
Severely corrosive to the respiratory tract. May cause sore throat, coughing, labored breathing and lung congestion/inflammation.

INGESTION:
Corrosive. May cause sore throat, abdominal pain, diarrhea, vomiting, severe burns of the digestive tract, and kidney dysfunction.

CHRONIC EXPOSURE:
Intake of more than 6 mg of fluorine per day may result in fluorosis, bone and joint damage. Hypocalcemia and hypomagnesemia can occur from absorption of fluoride ion into blood stream.

AGGRAVATION OF PRE-EXISTING CONDITIONS:
Persons with pre-existing skin disorders, eye problems, or impaired kidney or respiratory function may be more susceptible to the effects of this substance.

CARCINOGENICITY: NTP? No IARC Monographs? No OSHA Regulated? No

4. First Aid Measures

EYE CONTACT:	Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. See a physician immediately.
SKIN CONTACT:	Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician immediately. Wash clothing before reuse. Do not wear contaminated clothing. May produce effects that are not immediately painful or visible.
INHALATION:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately.
INGESTION:	If swallowed, DO NOT induce vomiting. Give large quantities of water or several glasses of milk with milk of magnesia. Never give anything by mouth to an unconscious person. Get medical attention immediately.

5. Fire-fighting Measures

FLASHPOINT: Not flammable

METHOD: Not applicable

FLAMMABLE LIMITS: LEL: Not applicable UEL: Not applicable

AUTOIGNITION TEMP: Not applicable

GENERAL HAZARD:
Not considered to be a fire hazard. Fire may produce poisonous or irritating gases.

FIRE EXTINGUISHING MEDIA:
Keep upwind of fire. Use water or carbon dioxide on fires in which Hydrofluoric Acid is involved. Halon or foam may also be used. In case of fire, the sealed containers can be kept cool by spraying with water.

SPECIAL INFORMATION:
In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Avoid getting water in tanks or drums; water can cause generation of heat and spattering. In contact with air, the acid gives off corrosive fumes which are heavier than air.

6. Accidental Release Measures

Notify safety personnel, provide adequate ventilation, and remove ignition sources since hydrogen may be generated by reactions with metals. Wear appropriate personal protective equipment as specified in Section 8. Do not flush to sewers or waterways. Spills: Evacuate the danger area. Apply magnesium sulfate (dry) to the spill area. Follow up with inert absorbent and add soda ash or magnesium oxide and slaked lime. Collect in appropriate plastic containers and save for disposal. Wash spill site with soda ash solution. NOTE: Porous materials (concrete, wood, plastic, etc.) will absorb HF and become a hazard for an indefinite time. Such spills should be cleaned and neutralized immediately. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities.

7. Handling and Storage

For professional, industrial, and institutional use only by trained personnel. Outdoor use only. Read entire label before use. Keep Out of Reach of Children. Always wash thoroughly after use and before eating, drinking, or using the restroom.
Keep in a tightly closed container. Protect from physical damage. Store in a cool, dry, ventilated area away from sources of heat, moisture,

incompatibilities, and direct sunlight. Corrosive to mild steel. Store in original containers. Do not wash out container and use it for other purposes. Containers of this material may be hazardous when empty since they retain product residue; observe all warnings and precautions listed for the product.

STORAGE TEMPERATURE:
Ambient

8. Exposure controls and personal protection

EXPOSURE CONTROLS:	For well ventilated, outdoor use only. Use NIOSH / MSHA approved respirator if concentrations are above exposure limits.
PERSONAL PROTECTION:	Use chemical safety goggles and/or a full face shield, protective gloves (neoprene preferred), and other impervious clothing including boots, apron, or coveralls when using this product. Maintain eyewash fountain and quick-drench facilities in the work area. Immediately wash with water any suspected contact with this product and follow first aid measures.

9. Physical and chemical properties

APPEARANCE AND ODOR:	Liquid. Acidic, pungent odor.
SPECIFIC GRAVITY:	1.08
VAPOR PRESSURE:	Not determined
VAPOR DENSITY:	Not determined
SOLUBILITY IN WATER:	Complete
pH:	1
BOILING POINT:	150°F
MELTING POINT:	Not applicable
EVAPORATION RATE (Butyl Acetate = 1):	Not determined

10. Stability and reactivity

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITY (Materials to Avoid): Hydrofluoric acid is incompatible with arsenic trioxide, phosphorus pentoxide, ammonia, calcium oxide, sodium hydroxide, sulfuric acid, vinyl acetate, ethylenediamine, acetic anhydride, alkalis, organic materials, most common metals, rubber, leather, water, strong bases, carbonates, sulfides, cyanides, oxides of silicon, especially glass, concrete, silica, fluorine.

HAZARDOUS DECOMPOSITION PRODUCTS: On contact with metals, liberates hydrogen gas. On heating to decomposition, could yield toxic fumes of fluorides. Attacks glass and other silicon containing compounds. Reacts with silica to produce silicon tetrafluoride, a hazardous colorless gas.

11. Toxicological information

Phosphoric Acid (7664-38-2): LD50 – lethal dose 50% of test species, 1530 mg/kg, rat.

Hydrofluoric acid (7664-39-3): Inhalation rat LC50: 1276 ppm/1H; Investigated as a mutagen, reproductive effector.

12. Ecological information

No information available.

13. Disposal considerations

Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport information

Corrosive Liquid, Acidic, Inorganic, N.O.S. (Hydrofluoric Acid) (Phosphoric Acid), 8, UN3264, PG II

15. Regulatory information

TSCA: All components of this product are listed on the TSCA inventory.

CERCLA: Phosphoric Acid (7664-38-2); 5000 lbs. Hydrogen Fluoride (7664-39-3); 100 lbs.

SARA TITLE III:
Section 311/312 Hazard Category: Acute: Yes Chronic: Yes Fire: No Pressure: No Reactive Hazard: Yes
Section 313 Reportable Ingredients: Hydrogen Fluoride (7664-39-3)

16. Other information

Health – 4,
Flammability – 0,
Reactivity – 1

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of RX Marine Interntionl. The data on this sheet are related only to the specific material designated herein. Rx Marine International assumes no legal responsibility for use or reliance upon these data.

DISCLAIMER OF LIABILITY :The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.