Material Safety Data Sheet

RODINE Sol (RXSOL-10-1098-210)

1. Product and Company Identifaction

Porduct Name	RODINE Sol IC600
Part Number	RXSOL-25-1098-050

Company Details:

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

Branch : Kandla, Mumbai , Chennai, Vizag, Kolkata, UAE , OMAN , CANADA and KENYA

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2. Composition / informationon ingredients

Hazardous Component(s)	Cas No	Whight %
2-Butoxyethanol	111-76-2	30 - 50
Alcohols, C16-18 and C18-unsatd., Ethoxylated	68920-66-1	10 - 30
Acetic acid, hydroxy compds. with acetophenone-formaldehyde-(1R,4aS,10aR)-1,2,3,4,4a,9,10,10 aoctahydro-1,4a-dimethyl-7-(1-methyle	683748-05-2	10 - 30
2-Propyn-1-ol, compd. with 2- methyloxirane	38172-91-7	5 - 10
Acetophenone	98-86-2	0.1 - 1
Glycolic acid	79-14-1	0.1 - 1

Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

3. Hazards Identification

Precautionary Statements

Prevention	Keep away from heat, sparks, open flames, hot surfaces - no smoking. Wash affected area thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves, eye protection, and face protection.
Response	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical attention. Take off contaminated clothing. In case of fire: Use foam, dry chemical or carbon dioxide to extinguish.
Storage	Store in a well-ventilated place. Keep cool.
Disposal	Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

4. First Aid Measures

Inhalation	If mist or vapor of this product is inhaled, remove person immediately to fresh air. Seek medical attention if symptoms develop or persist.
Skin contact	Remove contaminated clothing and footwear. For skin contact, flush with large amounts of water. Seek immediate medical attention.
Eye Contact	In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.

Ingestion	Get immediate medical attention. Do not induce vomiting.
Symptoms	See Section 11.
Notes to physician	Treat symptomatically and supportively.

5. Fire-fighting Measures

Extinguishing media	Foam, dry chemical or carbon dioxide. Water may be an ineffective extinguishing medium.
Special firefighting procedures	Wear full protective clothing. Wear self-contained breathing apparatus.
Unusual fire or explosion hazards	Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition.
Hazardous combustion products	Irritating and toxic gases or fumes may be released during a fire.

6. Accidental Release Measures

Environmental precautions	Wear appropriate protective equipment and clothing during clean-up. Prevent further leakage or spillage if safe to do so. Eliminate all sources of ignition or flammables that may come into contact with a spill of this material. Do not allow product to enter sewer or waterways.
Clean-up methods	Absorb spill with inert material. Shovel material into appropriate container for disposal. Dispose of according to Federal, State and local governmental regulations.

7. Handling and Storage

Handling	Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid breathing vapors or mists of this product. Do not take internally. For industrial use only. Ground and bond all equipment as required (when transferring products).
Storage	For safe storage, store between 50 °F (10°C) and 104 °F (40°C) Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Do not pressurize, cut, heat or weld containers. Empty product containers may contain product residue. Do not reuse empty containers.

8. Exposure controls and personal protection

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
2-Butoxyethanol	20 ppm TWA	50 ppm (240 mg/m3) PEL (SKIN)	None	None
Alcohols, C16-18 and C18-unsatd., ethoxylated Alcohols, C16-18 and C18-unsatd., ethoxylated	None	None	None	None
Acetic acid, hydroxy-, compds. with acetophenoneformaldehyde-(1R,4aS,10aR)-1,2,3,4,4a,9,10,10aoctahydro-1,4a-dimethyl-7-(1-methyle	None	None	None	None
2-Propyn-1-ol, compd. with 2-methyloxirane	None	None	None	None
Acetophenone	10 ppm TWA	None	10 ppm (50 mg/m3) TWA	None
Glycolic acid	None	None	None	None

Engineering controls	Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.
Respiratory protection	If ventilation is not sufficient to effectively prevent buildup of aerosols, mists or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.
Eye/face protection	Wear chemical goggles; face shield (if splashing is possible).

Skin protection	Wear impervious gloves for prolonged contact. Gloves should be tested to determine suitability for prolonged contact. Use of impervious apron and boots are recommended.

9. Physical and chemical properties

Physical state	Liquid
Colour	Amber
Odour	Aromatic
Odor threshold	Not available
pH	3.5 - 5.0 (1% solution)
Vapor pressure	20 mm hg (20 °C (68°F)) calculated
Boiling point/range	> 200 °F (> 93.3 °C)calculated
Melting point/ range	0 °F (-17.8 °C
Specific gravity	0.98 - 1.00 at 68 °F (20°C)
Vapor density	Not determined
Flash point	189 °F (87.22 °C) Tagliabue closed cup
Flammable/Explosive limits - lower	Not applicable
Flammable/Explosive limits - upper	Not applicable
Autoignition temperature	Not determined
Flammability	Not applicable
Evaporation rate	Not determined
Solubility in water	Complete
Partition coefficient (n-octanol/water)	Not determined
VOC content	45.9 % EPA Method 24
Viscosity	Not available
Decomposition temperature	Not available

10. Stability and reactivity

Stability	Stable at normal conditions.
Hazardous reactions	None under normal processing
Hazardous decomposition products	Upon decomposition, this product may yield oxides of nitrogen and ammonia, carbon dioxide, carbon monoxide and other low molecular weight hydrocarbons.
Incompatible materials	This product may react with strong oxidizing agents. This product may react with strong reducing agents. This product may react with strong alkalies.
Reactivity	Not available.
Conditions to avoid	Store away from incompatible materials.

11. Toxicological information

Relevant routes of exposure	Skin, Inhalation, Eyes
Inhalation	This product is irritating to the respiratory system. Repeated inhalation may be harmful; lung irritation and serious central nervous system disorders may result. Excessive inhalation of this material causes headache, dizziness, nausea and incoordination.
Skin contact	Contact with liquid may produce severe skin irritation including redness and inflammation. A component in this product may be absorbed through the skin, especially if skin is damaged.
Eye contact	Contact can cause moderate to severe irritation and possible injury to the eyes. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
Ingestion	Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be harmful or fatal if swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects

2-Butoxyethanol	Oral LD50 (Rat) = 560 mg/kg Oral LD50 (Mouse) = 1.2 g/kg Oral LD50 (Rabbit) = 0.32 g/kg Oral LD50 (Rat) = 1.48 g/kg Oral LD50 (Mouse) = 1,519 mg/kg Dermal LD50 (Rabbit) = 400 mg/kg Inhalation LC50 (Rat, 4 h) = 523 ppm Inhalation LC50 (Rat, 4 h) = 545 ppm	Blood, Central nervous system, Irritant, Kidney, Liver
Alcohols, C16-18 and C18-unsatd., ethoxylated	Inhalation LC50 (Rat, 4 h) = > 1.6 mg/l	Allergen, Irritant, Kidney
Acetic acid, hydroxy-, compds. with acetophenone-formaldehyde-(1R,4aS,10aR)-1,2,3,4,4a,9,10,10aoctahydro-1,4a-dimethyl-7-(1-methyle	None	No Records
2-Propyn-1-ol, compd. with 2- methyloxirane	None	No Data
Acetophenone	Oral LD50 (Rat) = 0.81 g/kg Oral LD50 (Rat) = 3.0 g/kg	Blood, Central nervous system, Eyes, Irritant
Glycolic acid	Oral LD50 (Rat) = 1,950 mg/kg Inhalation LC50 (Rat, 4 h) = 14 mg/l Inhalation LC50 (Rat, 4 h) = 7.7 mg/l Inhalation LC50 (Rat, 4 h) = > 5.2 mg/l Inhalation LC50 (Rat, 4 h) = 3.6 mg/l	Corrosive, Irritant, Kidney, Metabolic, Respiratory

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
2-Butoxyethanol	No	No	No
Alcohols, C16-18 and C18-unsatd., ethoxylated	No	No	No
Acetic acid, hydroxy-, compds. with acetophenone-formaldehyde-(1R,4aS,10aR)-1,2,3,4,4a,9,10,10aoctahydro-1,4a-dimethyl-7-(1-methyle	No	No	No
2-Propyn-1-ol, compd. with 2- methyloxirane	No	No	No
Acetophenone	No	No	No
Glycolic acid	No	No	No

12. Ecological information

Ecological information	Not available.

13. Disposal considerations

Recommended method of disposal	Dispose of according to Federal, State and local governmental regulations.

14. Transport information

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any packaging.

Canada Transportation of Dangerous Goods - Ground

Proper shipping name	Not regulated
Hazard class or division	None

Identification number	None
Packing group	None

International Air Transportation (ICAO/IATA)

Proper shipping name	Not regulated
Hazard class or division	None
Identification number	None
Packing group	None

Water Transportation (IMO/IMDG)

Proper shipping name	Not regulated
Hazard class or division	None
Identification number	None
Packing group	None

15. Regulatory information

Canada Regulatory Information

CEPA DSL/NDSL Status	One or more components are not listed on, and are not exempt from listing on either the Domestic Substances List or the Non-Domestic Substances List.

United States Regulatory Information

TSCA 8 (b) Inventory Status	All components are listed as active or are exempt from listing on the Toxic Substances Control Act (TSCA) inventory.

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. 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.