Material Safety Data Sheet

Stearic Acid (RXSOL-81-8120-050)

1. Product and Company Identifaction

Product Name	Stearic Acid
Product Type	RXSOL-81-8120-025

Company Details:

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

Phone	+91 22 65113333 / 5555 / 9999
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2. Composition / informationon ingredients

Name	CAS#	% by Weight
Stearic Acid	57-11-4	100

3. Hazards Identification

eye contact	irritant
skin contact	irritant
teratogenic effect	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
developmetal toxicity	Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
Skin Contact	Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.
Serious Skin Contact	Not available.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Serious Inhalation	Not available.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion	Not available.

5. Fire-fighting Measures

Flammability of the Product	May be combustible at high temperature
Auto-Ignition Temperature	395°C (743°F)
Flash Points	CLOSED CUP: 196.11°C (385°F)
Flammable Limits	Not available.
Products of Combustion	These products are carbon oxides (CO, CO2)
Fire Hazards in Presence of Various Substances	Slightly flammable to flammable in presence of heat. Non-flammable in presence of shocks.
Explosion Hazards in Presence of Various Substances	Slightly explosive in presence of open flames and sparks. Non-explosive in presence of shocks.
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Special Remarks on Fire Hazards	When heated to decomposition it emits acrid smoke and irritating fumes. As with most organic solids, fire is possible at elevated temperatures
Special Remarks on Explosion Hazards	Not applicable
Special Remarks on Fire Hazards	Will ignite and burn fiercely in contact with fluorine
Special Remarks on Explosion Hazards	Fine dust dispersed in air in sufficient concentrations, and in the presences of an ignition source is a potential dust explosion hazard.

6. Accidental Release Measures

Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

7. Handling and Storage

Precautions	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, alkalis.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.

8. Exposure controls and personal protection

Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protection	Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Exposure Limits	TWA: 10 from ACGIH (TLV) [United States] Consult local authorities for acceptable exposure limits.

9. Physical and chemical properties

Physical state and appearance	Solid. (Crystalline solid. Powdered solid.)
Odor	Tallow-like (Slight.)
Taste	Not available
Molecular Weight	284.48 g/mole
Color	White to yellowish
pH (1% soln/water)	Not applicable
Boiling Point	Decomposition temperature: 350°C (662°F)
Melting Point	69.4 (156.9°F)
Critical Temperature	Not available
Specific Gravity	0.9408 (Water = 1)
Vapor Pressure	Not applicable
Vapor Density	9.8(Air = 1)
Volatility	Not available
Odor Threshold	20 ppm
Water/Oil Dist. Coeff	The product is more soluble in oil; log(oil/water) = 8.2
Ionicity (in Water)	Not available
Dispersion Properties	See solubility in water, diethyl ether, acetone.
Solubility	Easily soluble in diethyl ether. Soluble in acetone. Insoluble in cold water, hot water. Slightly soluble in Ethanol. Soluble in alcohol, chloroform, carbon disulfide, carbon tetrachloride, amyl acetate, toluene. 1 gram dissolves in 21 ml alcohol, 5 ml benzene, 2 ml chloroform, 26 ml acetone, 6 ml carbon tetrachloride, 3.4 ml carbon disulfide.

10. Stability and reactivity

Stability	The product is stable.
Instability Temperature	Not available.
Conditions of Instability	Heat, incompatible materials, dust generation, ignition sources
Incompatibility with various substances	Reactive with oxidizing agents, alkalis.
Corrosivity	Non-corrosive in presence of glass.
Special Remarks on Reactivity	Not available.
Special Remarks on Corrosivity	Not available.
Polymerization	Will not occur.

11. Toxicological information

Routes of Entry	Inhalation. Ingestion.
Toxicity to Animals	Acute oral toxicity (LD50): 4640 mg/kg [Rat]. Acute dermal toxicity (LD50): >5000 mg/kg[Rabbit].
Chronic Effects on Humans	Not available
Other Toxic Effects on Humans	Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans:	May cause cancer based on animal test data
Special Remarks on other Toxic Effects on Humans:	Acute Potential Health Effects: May cause skin irritation. Eyes: May cause eye irritation. Inhalation: May cause respiratory tract irritation. Symptoms may include coughing, sore throat, labored breathing, and chest pain. Ingestion: Ingestion of large oral doses may cause irritation to the gastrointestinal tract. Ingestion may also cause intestinal obstruction.

12. Ecological information

Ecotoxicity	Not available
BOD5 and COD	Not available.
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	The product itself and its products of degradation are not toxic.
Special Remarks on the Products of Biodegradation	Not available.

13. Disposal considerations

Waste Disposal Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. Transport information

Identification	Not applicable.
Special Provisions for Transport	Not applicable.

15. Regulatory information

Federal and State Regulations	TSCA 8(b) inventory: Stearic acid
Other Regulation:	
EINECS	This product is on the European Inventory of Existing Commercial Chemical Substances.
Other Classifications:	
WHMIS (Canada)	Not controlled under WHMIS (Canada).
DSCL (EEC)	This product is not classified according to the EU regulations. Not applicable
HMIS (U.S.A.)	
Health Hazard	1
Fire Hazard	1
Reactivity	0
Personal Protection	E
National Fire Protection Association (U.S.A.):	
Health	1
Flammability	1
Reactivity	0
Specific hazard:	
Protective Equipment	Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety glasses.

16. Other information

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