MATERIAL SAFETY DATA SHEET

STEARIC ACID CAROLINA BIOLOGICAL Revised: 09/12/07 Replaces: 07/16/04 Printed: 05/20/08

1. PRODUCT DESCRIPTION

Product Name:	Stearic Acid
Product Code(s):	89-2600
Size:	500 g
Chemical Name:	Stearic Acid
CAS Number:	See section 2
Formula:	C18H36O2
Synonyms:	Octadecanoic Acid; 1-Heptadecanecarboxylic Acid
Distributor:	Carolina Biological Supply Company
	2700 York Road
	Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) Chemtrec (Transportation Spill Response 24 hours): 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Principal Hazardous Components: Stearic Acid(cas#57-11-4)90-100% TLV and PEL units: None established

3. HAZARD IDENTIFICATION

Emergency Overview: May cause irritation. Avoid contact with eyes, skin, clothing. Avoid breathing dust. Keep in tightly closed container. Use with adequate ventilation. Wash thoroughly after handling.

Potential Health Effects:

Eyes: May cause irritation.

Skin: May cause irritation.

Ingestion: May cause gastrointestinal discomfort. Inhalation: May cause irritation to respiratory tract.

4. FIRST AID MEASURES

Emergency and First Aid Procedures:

Eyes - Flush with water for at least 15 minutes, raising and lowering eyelids occasionally. Get medical attention if irritation persists. Skin - Thoroughly wash exposed area for at least 15 minutes. Remove contaminated clothing. Launder contaminated clothing before reuse. Get medical attention if irritation persists.

Ingestion - If swallowed, if conscious, give plenty of water. Immediately call a physician or poison control center. Never give anything by mouth to an unconscious person.

Inhalation - Remove to fresh air. Give oxygen if breathing is difficult; give artificial respiration if breathing has stopped. Keep person warm and quiet, and get medical attention.

5. FIREFIGHTING PROCEDURES

Flash Point(Method Used): 196 C (385 F) Health: 1 NFPA Rating: Fire: 1 Reactivity: 0 Extinguisher Media: Use dry chemical, CO2 or appropriate foam. Flammable Limits in Air % by Volume: N/A Autoignition Temperature: N/A Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

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Unusual Fire and Explosion Hazards: Dust may form explosive mixture with air.

6. SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:

Ventilate area of spill. Clean-up personnel should wear proper protective equipment. Avoid creating dust. Sweep or scoop up and containerize for disposal.

7. SPECIAL PRECAUTIONS

Precautions to be Taken in Handling or Storing: Keep container tightly closed. Suitable for any general chemical storage area. Other Precautions: Store in a cool, well-ventilated area from sources of

heat, flame, or ignition.

8. SPECIAL PROTECTION INFORMATION

Respiratory Protection(Specify Type): None needed under normal conditions of use with adequate ventilation. NIOSH approved equipment should be worn if PELs are exceeded. Ventilation:

Local Exhaust:	Yes
Mechanical(General):	Yes
Special:	No
Other:	No

Protective Gloves: Rubber, neoprene, PVC, or equivalent.

Eye Protection:

Splash proof chemical safety goggles should be worn at all times. Other Protective Clothing or Equipment:

Lab apron, eye wash, and safety shower.

9. PHYSICAL DATA

Molecular Weight: 284.49 Melting Point: 69 C (156 F) 383 C (721 F) Boiling Point: Vapor Pressure: 1 mmHg at 173.7 C Vapor Density(Air=1): 9.8 Specific Gravity(H2O=1): 0.87 Percent Volatile by Volume: 0 (21 C) Evaporation Rate(H2O=1): N/A Solubility in Water: Negligible Appearance and Odor: White to light yellow solid, Tallow-like odor

<u>10. REACTIVITY DATA</u>

Stability: Stable

Conditions to Avoid: Heat, flame, other sources of ignition, dusting Incompatibility(Materials to Avoid): Strong bases, strong oxidizing agents

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide Hazardous Polymerization: Will not occur

<u>11. TOXICITY DATA</u>

Toxicity Data: intravenous mouse LD50: 23 mg/kg; intravenous rat LD50: 21.5 mg/kg Effects of Overexposure:

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No

Acute: See section 3 Chronic: None Conditions Aggravated by Overexposure: Irritation of upper respiratory tract, eyes. Target Organs: Respiratory tract, eyes

Primary Route(s) of Entry: Inhalation, eye contact

<u>12. ECOLOGICAL DATA</u>

EPA Waste Numbers: None

13. DISPOSAL INFORMATION

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

14. TRANSPORT INFORMATION

Non-regulated

15. REGULATORY INFORMATION

EPA TSCA Status: On TSCA Inventory Hazard Category for SARA Section 311/312 Reporting: Acute

		SARA Sec. 313		
	SARA EHS	Chemicals	CERCLA	RCRA
Product or	Sec. 302	Name Chemical	Sec. 103	Sec.
Components	TPQ	List Category	RQ lbs.	261.33

Stearic Acid No No No No

16. ADDITIONAL INFORMATION

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material. Glossarv ACGIH.....American Conference of Governmental Industrial Hygienists CAS Number..Chemical Abstracts Service Number CERCLA.....Comprehensive Environmental Response, Compensation, and Liability Act DOT.....U.S. Department of Transportation IARC.....International Agency of Research on Cancer mppcf.....million particles per cubic foot N/A.....Not Available NTP.....National Toxicology Program OSHA.....Occupational Safety and Health Administration PEL.....Permissible Exposure Limit ppm.....parts per million RCRA.....Resource Conservation and Recovery Act SARA.....Superfund Amendments and Reauthorization Act TLV......Threshold Limit Value TSCA.....Toxic Substances Control Act