### Stearic Acid



Section 1 Product Description

Product Name: Stearic Acid

Recommended Use: Science education applications
Synonyms: Octadecanoic Acid; Cetylacetic Acid
Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

### Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

**GHS Classification:** 

Other Safety Precautions: Not a dangerous substance according to GHS classification criteria.

No known OSHA hazards.

Acute Toxicity Oral Contains 100 % of the mixture consists of ingredient(s) of unknown toxicity

### Section 3 Composition / Information on Ingredients

 Chemical Name
 CAS #
 %

 Stearic Acid
 57-11-4
 100

### Section 4 First Aid Measures

**Emergency and First Aid Procedures** 

**Inhalation:** In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Skin Contact:** After contact with skin, wash immediately with plenty of water.

Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

# Section 5 Firefighting Procedures

**Extinguishing Media:** Use dry chemical, CO2 or appropriate foam.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: Avoid Dusting. May become explosive when dispersed in air.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

## Section 6 Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Poses little or no immediate hazard Ventilate the contaminated area. Persons not wearing appropriate protective equipment should be excluded from area of spill until clean-up has been completed. Avoid the generation of dusts during clean-up.

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Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Contain the discharged material.

**Section 7** 

# Handling and Storage

Handling: Keep container tightly closed in a cool, well-ventilated place.

Do not breathe dust/vapor. Do not get in eyes, on skin, or on clothing. Retained residue may make empty Storage:

containers hazardous; use caution.

Storage Code: Green - general chemical storage

#### Protection Information Section 8

**ACGIH OSHA PEL** 

**Chemical Name** (TWA) (STEL) (TWA) (STEL) No data available N/A N/A N/A N/A

**Control Parameters** 

**Engineering Measures:** No exposure limits exist for the constituents of this product. General room ventilation

might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

**Respiratory Protection:** 

No respiratory protection required under normal conditions of use. Wear a NIOSH

approved respirator if levels above the exposure limits are possible.

Wear chemical splash goggles when handling this product. Have an eye wash station **Eye Protection:** 

available.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective

equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Where use can result in skin contact, practice good personal hygiene. Inspect gloves for chemical break-through and replace at regular

intervals. Clean protective equipment regularly.

Gloves: Nitrile

### Section 9

### Physical Data

Formula: C18H36O2 Molecular Weight: 284.49 Appearance: Solid Odor: No data available

Odor Threshold: No data available

pH: No data available

Melting Point: No data available

**Boiling Point: 361 C** 

Flash Point: No data available 113 C

Flammable Limits in Air: N/A

Vapor Pressure: 1 mmHg at 173.7 °C Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): 9.8 Specific Gravity: 0.87

Solubility in Water: Practically Insoluble Log Pow (calculated): No data available

Autoignition Temperature: No data available 395 C **Decomposition Temperature:** No data available

Viscosity: No data available

Percent Volatile by Volume: 0% (21°C)

#### Section 10 Reactivity Data

Reactivity: No data available

Chemical Stability: Stable under normal conditions.

**Conditions to Avoid:** None known.

**Incompatible Materials:** Caustics (bases), Strong oxidizing agents, Strong reducing agents

**Hazardous Polymerization:** Will not occur

#### Section 11 Toxicity Data

Routes of Entry Inhalation, ingestion, eye or skin contact.

Symptoms (Acute): Respiratory disorders **Delayed Effects:** No data available

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**Acute Toxicity:** 

**Chemical Name CAS Number** Oral LD50 **Dermal LD50** Inhalation LC50 Stearic Acid 57-11-4 Oral LD50 Rat > Dermal LD50 Not determined 2000 mg/kg

Rabbit > 5000

mg/kg

Carcinogenicity:

**Chemical Name CAS Number IARC NTP OSHA** Not listed No data available 57-11-4 Not listed Not listed

**Chronic Effects:** 

Mutagenicity: No evidence of a mutagenic effect.

Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect.

Reproductive: No evidence of negative reproductive effects.

**Target Organ Effects:** 

Acute: See Section 2

**Chronic:** N/A

#### Section 12 Ecological Data

Overview: This material is not expected to be harmful to the ecology.

Mobility: No data Persistence: No data Bioaccumulation: No data Degradability: No data Other Adverse Effects: No data

**Chemical Name CAS Number Eco Toxicity** 

57-11-4

#### Section 13 Disposal Information

**Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

#### Section 14 Transport Information

**Ground - DOT Proper Shipping Name:** Air - IATA Proper Shipping Name: N/A Not regulated for air transport by IATA.

#### Section 15 Regulatory Information

**TSCA Status:** All components in this product are on the TSCA Inventory.

**Chemical Name** CAS § 313 Name § 304 RQ **CERCLA RQ** § 302 TPQ **CAA 112(2)** 

> Number TQ

No data available 57-11-4 No No No No No

#### Additional Information Section 16

Revised: 09/09/2015 Replaces: 08/24/2015 Printed: 10-29-2015

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.

#### **Glossary**

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ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

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