

## Stearic Acid Safety Data Sheet (SDS)

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Stearic Acid

Signal Word  
N/A

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261  
Chemtrec Emergency Phone Number: (800) 424-10386

Pictograms

### SECTION 2 — HAZARDS IDENTIFICATION

This chemical is considered nonhazardous according to GHS classifications for the Hazard Communication Standard. Treat all laboratory chemicals with caution.

Although this material is considered to be nonhazardous, unpredictable reactions among chemicals are always possible. Prudent laboratory practices should be observed.

### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Stearic acid (reagent grade)	57-11-4	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>16</sub> COOH	284.49	>95%
Laboratory grade is 45-50% stearic acid and 44-49% palmitic acid.				
Synonyms: Octadecanoic acid				

### SECTION 4 — FIRST AID MEASURES

Get medical advice or attention (P313).

**If inhaled:** Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340).

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351+P338). **If eye irritation persists eyes:** Get medical advice or attention (P337+P313).

**If on skin:** Wash with plenty of water (P302+P352). **If skin irritation occurs:** Get medical advice or attention (P332+P313).

**If swallowed:** Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

### SECTION 5 — FIRE FIGHTING MEASURES

Class IIIB combustible solid.

Flash Point 196 °C Autoignition temp. 395 °C.

When heated to decomposition, may emit toxic fumes.

In case of fire: Use a tri-class dry chemical fire extinguisher.

NFPA Code

H-1

F-1

R-0

### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Wipe up the spill, place in a sealed bag or container, and dispose. Wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

### SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Organic #1. Store with acids, anhydrides and peracids.

Keep container tightly closed (P233). Use only in a hood or well-ventilated area (P271).

### SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264). Use only in a hood or well-ventilated area (P271).

### SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

White, waxy solid. Fatty acid odor.

Soluble: Many common organic solvents. Insoluble in water.

Flash point: 196 °C

Boiling point: 183-184 °C for reagent grade

Melting point: 67 to 69 °C for reagent grade

Melting point: 55 to 56 °C for laboratory grade

Specific gravity: 0.839 for reagent grade

### SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with strong oxidizers, bases and reducing agents.

Shelf life: Indefinite, if stored properly.

### SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Possible skin, eye, and respiratory tract irritation.

Chronic effects: N.A.

Target organs: N.A.

ORL-RAT LD<sub>50</sub>: N.A.

IHL-RAT LC<sub>50</sub>: N.A.

SKN-RBT LD<sub>50</sub>: N.A.

### SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

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**SECTION 13 — DISPOSAL CONSIDERATIONS**

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Please review all federal, state and local regulations that may apply before proceeding.  
Flinn Suggested Disposal Method #26a is one option.

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**SECTION 14 — TRANSPORT INFORMATION**

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Shipping name: Not regulated. Hazard class: N/A. UN number: N/A.

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**SECTION 15 — REGULATORY INFORMATION**

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TSCA-listed, EINECS-listed (200-313-4).

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**SECTION 16 — OTHER INFORMATION**

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N.A. = Not available, not all health aspects of this substance have been fully investigated.

N/A = Not applicable

**Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.**

**Revision Date:** June 9, 2016

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