



State of the Art Ingredients • Fast Friendly Service

## Stearic Acid

Revision date: 01/08/2006  
Supersedes: 12/05/2005

### SECTION 1 :: PRODUCT IDENTIFICATION

**Product Name:** Stearic Acid

**INCI Name:** Stearic Acid

**Product Use:** Personal Care Products, Cosmetics

**For Emergency Contact:** Chemtrec 1-800-424-9300

### SECTION 2 :: INGREDIENTS

**Octadecanoic Acid**

**CAS #**  
57-11-4

### SECTION 3 :: HAZARD IDENTIFICATION

#### Hazards identification

#### Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

#### Classification according to EU Directives 67/548/EEC or 1999/45/EC

No particular hazards known.

#### Label elements

The product does not require a hazard warning label in accordance with GHS. The normal safety precautions for the handling of chemicals must be observed.

#### Other hazards

None known

### SECTION 4 :: FIRST AID MEASURES

**General:** Remove soiled or soaked clothing and launder before re-use.  
In case of symptoms seek medical advise.

**Skin Contact:** Wash with soap and water.

**Eye Contact:** Flush eyes with large amounts of water for at least 15 minutes.

**Ingestion:** Rinse mouth thoroughly with water and give plenty of water to drink.

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**Inhalation:** Remove to a fresh air environment. If breathing is difficult, give oxygen.

### SECTION 5 :: EXPLOSION AND FIRE-FIGHTING MEASURES

**Flash Point:** 374 (F) 190 (C)

**Extinguishing Media:** CO<sub>2</sub>, Dry Powder, Water Spray, Foam

**Unsuitable Extinguishing Media:** Full Water Jet

**Special hazards arising from the substance or mixture:**

Fire: may release carbon dioxide, carbon monoxide

**Special Fire-Fighting Procedures:** A MSHA/NIOSH approved self contained breathing apparatus should be worn. Do not inhale explosion or combustion gases. Wear protective suit. Use water spray to cool fire-exposed containers.

**Hazardous Combustion Products:** May emit noxious fumes.

**Unusual Fire and Explosion Hazards:** Unknown

### SECTION 6 :: ACCIDENTAL RELEASE/SPILL PROCEDURES

This product is insoluble in water and will float on the surface.

**Personal Protection:** Use personal protective suit. Ensure adequate ventilation.

**Material Handling:** Contain the spill and transfer material to separate containers for recovery or disposal in accordance with local, state, and federal regulations. Remove contaminated clothing and launder before re-use. Wash affected skin areas with soap and water. Keep spills out of all sewers and bodies of water. Surface may become slippery after spillage.

### SECTION 7 :: HANDLING AND STORAGE

General advise:

Apply standard material handling hygiene practices.

Do not inhale dust. Do not disperse dust.

Avoid direct contact with eyes and skin. Remove soiled or soaked clothing immediately. Wash hands before breaks and after work. Do not eat, drink, or smoke while working.

Containers should be kept tightly closed and stored in a dry well-ventilated place.

Do not handle or store near an open flame, heat, electrostatic load, or other sources of ignition.

Use in well ventilated area.

Keep away from heat, sparks and flames or other sources of ignition.

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Keep away from oxidizers.

### SECTION 8 :: PERSONAL PROTECTION

#### Exposure Limit Values

Component	Country	Type	Value	Remark
Octadecanoic Acid	USA	Pel, OSHA	5mg/m <sup>3</sup>	Respirable Dust
		Pel, OSHA	15mg/m <sup>3</sup>	Total Dust
		TWA, ACGIH	10mg/mc	Total Dust for Nuisance Particulates

**Skin / Body Protection:** Impervious gloves, rubber or plastic apron.  
**Eye / Face Protection:** Safety glasses with side shields.  
**Respiratory Protection:** None required for normal operation. Good ventilation.  
**Engineering Measures:** A dust mask should be worn. Direct exhaust when material becomes heated and fumes are given off or dusting becomes a nuisance.  
**Ventilations:** Adequate ventilation to keep dust level low below TLV  
**Other:** Eyewash facility in vicinity.  
**Hygiene:** Use good personal hygiene. Wash exposed areas of skin several times daily. Launder clothing before re-use.

### SECTION 9 :: PHYSICAL AND CHEMICAL PROPERTIES

**Appearance/Odor:** White to Off White Solid / Characteristic, Slightly Fatty  
**pH:** N/A  
**Melting Point:** 53 - 56 (C) 127 - 133 (F)  
**Boiling Point / Range:** > 315 (C) > 600 (F)  
**Flash Point:** 374 (F) 190 ©  
**Density:** - 0.88 g/cm<sup>3</sup> at 25 (C)  
**Solubility in Water:** Insoluble  
**Percent Volatiles:** 0 %

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### SECTION 10 :: STABILITY AND REACTIVITY

**Stability:** This product is stable under normal conditions.

**Reactivity:** N/A

**Conditions to Avoid:** Normally stable.

**Hazardous Decomposition Products:** None under normal use conditions with proper storage and handling.

**Hazardous Combustion Products:** Carbon Monoxide/Dioxide

**Hazardous Polymerization:** Will not occur under normal circumstances.

**Hazardous Reactions:** Will not occur under normal circumstances with proper storage and handling.  
Possible explosion hazard with excessive fine dust accumulation in air.

**Incompatible Materials:** Strong oxidizing agents.

### SECTION 11 :: TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Inhalation: Dust may cause respiratory irritation  
Eye Contact: May cause slight eye irritation  
Skin Contact: Low acute toxicity. May cause skin irritation  
Ingestion: Low acute toxicity.

#### Information on toxicological effects

Sensitization: No Data Available  
Mutagenic effect: No Data Available  
Carcinogenicity: No Data Available  
Reproductive toxicity: No Data Available  
STOT Single exposure  
STOT Repeated exposure chronic toxicity  
Target organ effects: No Data Available  
Aspiration Hazard

### SECTION 12 :: ECOLOGICAL INFORMATION

#### Not expected to be acutely toxic to aquatic organisms

**Eco toxicity:** No Data Available  
**Persistence Degradability:** No Data Available  
**Bio accumulation:** No Data Available  
**Other Adverse Effects:** No Data Available

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### SECTION 13 :: DISPOSAL CONSIDERATIONS

**Waste Disposal Methods:** If possible recover product and containerize, material should be disposed of in accordance with current local and national regulations. Contacting a waste disposal service is recommended.

### SECTION 14 :: TRANSPORT INFORMATION

Not classified as hazardous according to the Department of Transportation.

### SECTION 15 :: REGULATORY INFORMATION

**Toxic Substances Control Act (TSCA):** This product is not subject to TSCA.

**Canadian Domestic Substances List / Non Domestic Substances List (DSL):**

All components are listed on either the DSL or NDSL

**Superfund Amendments and Reauthorization Act (SARA):** This product is not subject to SARA

#### SARA 311/312 Hazard Category

Acute Health Hazard:	NO
Chronic Health Hazard:	NO
Fire Hazard:	NO
Sudden Release of Pressure Hazard:	NO
Reactive Hazard:	NO

HMIS Rating:

Health: 1

Flammability: 1

Reactivity: 0

PPI:

### SECTION 16 :: OTHER INFORMATION

Comply with federal, state, and local, laws regulating employee instruction.

#### Disclaimer

Technical information and / or suggestions for use including any formulations and / or procedures are believed to be correct. However this does not constitute a guarantee of the accuracy of the information or suggestions contained herein and confirming tests in your own laboratory and / or facility are recommended.

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