

# SAFETY DATA SHEET

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifiers

Product name Stearic acid

CAS number 57-11-4

- Synonyms Octadecanoic acid
- 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory chemicals.

## **1.3** Details of the supplier of the safety data sheet

Company	Lab Alley, LLC 12501 Pauls Valley Road Austin, Texas 78737 U.S.A.
Telephone	512-668-9918
Fax	512-886-4008

# 1.4 Emergency telephone

Emergency Phone #	US & Canada: 1-800-535-5053	INFOTRAC
	International 1-352-323-3500	INFOTRAC

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)** This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

# 2.2 GHS Label elements, including precautionary statements

None required.

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

May form combustible dust concentrations in air.

# **SECTION 3: Composition/information on ingredients**

# 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Stearic acid	Octadecanoic acid	57-11-4	>95%

# **SECTION 4: First aid measures**

### 4.1 Description of first-aid measures

General advice	
If inhaled	Remove to fresh air. Get medical attention immediately if symptoms occur.
In case of skin contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.
In case of eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
If swallowed	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

- **4.2 Most important symptoms and effects, both acute and delayed** None reasonably foreseeable.
- **4.3 Indication of any immediate medical attention and special treatment needed** Treat symptomatically.

# **SECTION 5: Firefighting measures**

5.1	Extinguishing media	
	Suitable extinguishing media	Water spray, Carbon dioxide (CO2), dry chemical, alcohol-resistant foam.
	Unsuitable extinguishing media	No information available.

# 5.2 Specific hazards arising from the substance or mixture

Fine dust dispersed in air may ignite. Dust can form an explosive mixture with air. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products: Carbon monoxide (CO). Carbon dioxide (CO2).

## 5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 5.4 Further information

Flash Point	t		196 °C / 384.8 °F			
Autoignitio	oignition Temperature 395 °C /			743 °F		
Explosion	limits					
	Upper	No data a	available.			
	Lower	No data a	available.			
Sensitivity to Mechanical Impact				No information available.		
Sensitivity to Static Discharge				No information available.		
	NFPA		-			
	Health	Flammability	Instability	Physical hazards		
	0	1	0	N/A		

# **SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

# 6.2 Environmental precautions

Should not be released into the environment.

**6.3 Methods and materials for containment and cleaning up** Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

### 6.4 Reference to other sections

See Section 2 for full list of hazard and precaution statements.

# **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

### Precautions on safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid ingestion and inhalation. Avoid contact with skin, eyes, or clothing. Avoid dust formation.

#### **Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

### 7.2 Conditions for safe storage, including any incompatibilities

#### **Storage conditions**

Keep containers tightly closed in a dry, cool, and well-ventilated place.

#### Incompatibilities

Combustible material. Bases. Strong oxidizing agents. Reducing agents.

### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Occupational exposure limits

#### **US. ACGIH Threshold Limit Values**

Component	Туре	Value
Stearic acid	TWA	10 mg/m3
	TWA	3 mg/m3

#### **Biological occupational exposure limits**

No information available.

### 8.2 Exposure controls

#### Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Personal protective equipment

#### Eye/face protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

#### **Skin protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### Body Protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### **Respiratory protection**

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Control of environmental exposure

No information available.

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Physical State Appearance Odor Odor Threshold pH Melting Point/Range Boiling Point/Range Evaporation Rate Flammability (solid) Flammability or explosive limit Upper Lower	Solid White No information available No information available No information available 67 - 69 °C / 152.6 - 156.2 °F 361 °C / 681.8 °F @ 760 mmHg Not applicable No information available No data available
Vapor Pressure	1 mmHg @ 174 °C
Vapor Density Density	Not applicable 0.84
Solubility	Slightly soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temp	395 °C / 743 °F
Decomposition Temp	No information available
Viscosity	Not applicable
Molecular Formula	C18 H36 O2
Molecular Weight	284.47 g/mol
VOC Content(%)	No information available
Oxidizing properties	No information available

# 9.2 Other safety information

No information available.

### **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

No information available.

# 10.2 Chemical stability

Stable under normal conditions.

- **10.3 Possibility of hazardous reactions** None under normal processing.
- **10.4 Conditions to avoid** Avoid dust formation. Incompatible products. Excess heat.
- **10.5 Incompatible materials** Combustible material, Bases, Strong oxidizing agents, Reducing agents.
- **10.6 Hazardous decomposition products** Carbon monoxide (CO), Carbon dioxide (CO2).

# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

#### **Product Information, Component Information**

#### Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Stearic acid	4600 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-

#### Skin corrosion/irritation

No information available.

#### Serious eye damage/eye irritation

No information available.

#### Respiratory or skin sensitization

No information available.

### Germ cell mutagenicity

No information available.

#### Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Stearic acid	57-11-4	Not listed				

### Specific target organ toxicity - single exposure

None known.

Specific target organ toxicity - repeated exposure None known.

#### **Reproductive toxicity**

No information available.

### **Chronic effects**

No information available.

# 11.2 Additional Information

The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Do not empty into drains.

- **12.2 Persistence and degradability** Soluble in water. Persistence is unlikely based on information available.
- **12.3 Bio accumulative potential** No information available.
- **12.4 Mobility in soil** Will likely be mobile in the environment due to its water solubility.

# **12.5 Results of PBT and vPvB assessment** No information available.

- **12.6 Endocrine disrupting properties** No information available.
- **12.7 Other adverse effects** No information available.

# **SECTION 13: Disposal considerations**

# 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# **SECTION 14: Transport information**

**DOT (US)** Not regulated.

IMDG Not regulated.

### **SECTION 15: Regulatory information**

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

> TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not applicable.

CERCLA Hazardous Substance List (40 CFR 302.4) Not listed.

SARA 304 Emergency release notification Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA) SARA 302 Extremely hazardous substance Not listed.

> SARA 311/312 Hazardous See Section 2 for more information.

SARA 313 (TRI reporting) Not regulated.

### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.

Safe Drinking Water Act Not regulated.

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Not listed.

#### US state regulations

US. Massachusetts RTK - Substance List Not listed.

# US. New Jersey Worker and Community Right-to-Know Act Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law Not listed.

California Proposition 65 Not listed.

# **SECTION 16: Other information**

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# **SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.