# SIGMA-ALDRICH

# **Material Safety Data Sheet**

Version 3.1 Revision Date 11/12/2009 Print Date 09/16/2011

RODUCT AND COMPAN	Y IDENTIFICATION				
Product name	Stearic acid				
Product Number	: W303518				
Brand	: Aldrich				
Company	: Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA				
Telephone	: +1 800-325-58				
Fax	: +1 800-325-50				
Emergency Phone #	: (314) 776-655	0			
COMPOSITION/INFORMAT		rs			
Synonyms	: Octadecanoic	acid			
Formula	: C <sub>18</sub> H <sub>36</sub> O <sub>2</sub>				
Molecular Weight	: 284.48 g/mol				
CAS-No.	EC-No.	Index-No.	Concentration		
Stearic acid		1			
57-11-4	200-313-4	-	-		
IAZARDS IDENTIFICATIO	N				
Emergency Overview					
OSHA Hazards Irritant					
HMIS Classification					
Health hazard:	2				
Flammability: Physical hazards:	1 0				
NFPA Rating	0				
Health hazard:	2				
Fire:	1				
Reactivity Hazard:	0				
Potential Health Effects					
Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.				
Skin	May be harmful if absorbed through skin. Causes skin irritation.				
Eyes	Causes eye irritation.				
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Ingestion
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May be harmful if swallowed.

#### 4. FIRST AID MEASURES

#### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

# 5. FIRE-FIGHTING MEASURES

### Flammable properties

Flash point 113 °C (235 °F) - closed cup

Ignition temperature no data available

# Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

# 6. ACCIDENTAL RELEASE MEASURES

#### **Personal precautions**

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

# Environmental precautions

Do not let product enter drains.

### Methods for cleaning up

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

# 7. HANDLING AND STORAGE

#### Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

#### Storage

Keep container tightly closed in a dry and well-ventilated place.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

#### Personal protective equipment

### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

# Hand protection

Handle with gloves.

# Eye protection

Safety glasses with side-shields conforming to EN166

### Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

solid
no data available
67 - 72 °C (153 - 162 °F) - lit.
361 °C (682 °F) - lit.
113 °C (235 °F) - closed cup
no data available
no data available
no data available
1 hPa (1 mmHg) at 173.7 °C (344.7 °F)
0.845 g/cm3
no data available

# **10. STABILITY AND REACTIVITY**

### Storage stability

Stable under recommended storage conditions.

# Materials to avoid

Bases, Oxidizing agents, Reducing agents

# Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

# **11. TOXICOLOGICAL INFORMATION**

### Acute toxicity

LD50 Oral - rat - > 2,000 mg/kg

LD50 Dermal - rabbit - > 5,000 mg/kg

# Irritation and corrosion

Skin - rabbit - Skin irritation - 24 h - Draize Test

### Sensitisation

no data available

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# **Chronic exposure**

Carcinogenicity - mouse - Implant

Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Kidney, Ureter, Bladder:Tumors.

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## **Potential Health Effects**

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation.
Ingestion	May be harmful if swallowed.

### **Additional Information**

RTECS: WI2800000

# **12. ECOLOGICAL INFORMATION**

### Elimination information (persistence and degradability)

no data available

#### **Ecotoxicity effects**

no data available

### Further information on ecology

no data available

# **13. DISPOSAL CONSIDERATIONS**

### Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

# Contaminated packaging

Dispose of as unused product.

# **14. TRANSPORT INFORMATION**

# DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

### ΙΑΤΑ

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# **15. REGULATORY INFORMATION**

# **OSHA Hazards**

Irritant

### **DSL Status**

All components of this product are on the Canadian DSL list.

### SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### SARA 311/312 Hazards

Acute Health Hazard

### **Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components	CAS-No.	Revision Date
Stearic acid	57-11-4	
New Jersey Right To Know Components	0.40 M	
Stearic acid	CAS-No. 57-11-4	Revision Date

### California Prop. 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

## **16. OTHER INFORMATION**

#### **Further information**

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