

Material Safety Data Sheet Revision Number 3

Revision Date 13-Feb-2013

AC174490000; AC174490010; AC174490025; AC174490100

### **1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Name** 

**Recommended Use** 

### **Stearic acid**

Cat No.

Synonyms

Company

**Fisher Scientific** 

One Reagent Lane

Fair Lawn, NJ 07410

Tel: (201) 796-7100

Octadecanoic acid

Laboratory chemicals

Entity / Business Name Acros Organics One Reagent Lane Fair Lawn, NJ 07410

**Emergency Telephone Number** For information in the US, call: 001-800-ACROS-01 For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99 Emergency Number, US: 001-201-796-7100

CHEMTREC Phone Number, US: 001-800-424-9300 CHEMTREC Phone Number, Europe: 001-703-527-3887

## 2. HAZARDS IDENTIFICATION

DANGER!			
Emergency Overview			
Flammable solid. Irritatir	ng to eyes, respiratory system and skin. Contains a known or harmful by inhalation, in contact with skin and if swallowe		
Appearance White	Physical State Solid	Odor fatty odor	
Target Organs	Eyes, Skin, Respiratory system		
Potential Health Effects			
Acute Effects Principle Routes of Exposure			

Eyes Skin Inhalation Ingestion	Irritating to eyes. Irritating to skin. May be harmful in contact with skin. Irritating to respiratory system. May be harmful if inhaled. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be harmful if swallowed.
Chronic Effects	Mutagenic effects have occurred in humans
See Section 11 for additional	Tovicological information

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions No information available.

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### Haz/Non-haz

Component		CAS-No	Weight %
Stearic acid		57-11-4	97
	4. FII	RST AID MEASURES	
Eye Contact	Rinse immediate medical attentio		e eyelids, for at least 15 minutes. Obtain
Skin Contact		Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention.	
Inhalation		Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.	
Ingestion	Do not induce ve	Do not induce vomiting. Clean mouth with water. Get medical attention.	
Notes to Physician	Treat symptomatically.		

### 5. FIRE-FIGHTING MEASURES

Flash Point	196°C / 384.8°F
Method -	No information available.
Autoignition Temperature	395°C / 743°F
Explosion Limits Upper Lower	No data available No data available
Suitable Extinguishing Media	Water spray. Carbon dioxide (CO <sub>2</sub> ). Dry chemical. chemical foam.
Unsuitable Extinguishing Media	No information available.
Hazardous Combustion Products	No information available.
Sensitivity to mechanical impact Sensitivity to static discharge	No information available. No information available.

**Specific Hazards Arising from the Chemical** Combustible material. Fine dust dispersed in air may ignite.

#### **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.

NFPA Health 2	Flammability 2	Instability 0	Physical hazards N/A	
	6. ACCIDENTAL RELEAS	SE MEASURES		
Personal Precautions	Ensure adequate ventilation			
Environmental Precautions	Should not be released into the er	Should not be released into the environment		
Methods for Containment and Clea		Use spark-proof tools and explosion-proof equipment. Sweep up or vacuum up spillage and collect in suitable container for disposal.		
	7. HANDLING AND	STORAGE		
Handling	Avoid contact with skin and eyes. Keep away from heat/sparks/open equipment. Use only non-sparking	flames/hot surfaces No	smoking. Use explosion-proof	
Storage	Keep in a dry, cool and well-ventila Keep away from heat/sparks/open oxidizing agents.			

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures	Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location.
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

NIOSH IDLH: Immediately Dangerous to Life or Health

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 and 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.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Solid

Physical State Appearance Odor Odor Threshold pH Vapor Pressure Vapor Density Viscosity Boiling Point/Range Melting Point/Range Decomposition temperature Flash Point

White fatty odor No information available. No information available. 1 mmHg @ 174 °C No information available. No information available. 361°C / 681.8°F@ 760 mmHg 67 - 69°C / 152.6 - 156.2°F No information available. 196°C / 384.8°F

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Evaporation Rate Specific Gravity Solubility log Pow Molecular Weight Molecular Formula No information available. 0.840 No information available. No data available 284.47 C18 H36 O2

### **10. STABILITY AND REACTIVITY**

Stability	Stable under normal conditions.
Conditions to Avoid	Keep away from open flames, hot surfaces and sources of ignition. Excess heat. Incompatible products. Avoid dust formation.
Incompatible Materials	Combustible material, Bases, Strong oxidizing agents, Reducing agents
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> )
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions .	None under normal processing.

### **11. TOXICOLOGICAL INFORMATION**

### Acute Toxicity

**Product Information** 

No acute toxicity information is available for this product

**Component Information** 

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Stearic acid	Not listed	5 g/kg (Rabbit)	Not listed

Irritation	Irritating to eyes, respiratory system and skin
Toxicologically Synergistic Products	No information available.
Chronic Toxicity	
Carcinogenicity	There are no known carcinogenic chemicals in this product
Sensitization	No information available.
Mutagenic Effects	Mutagenic effects have occurred in humans.
Reproductive Effects	No information available.
Developmental Effects	No information available.
Teratogenicity	No information available.
Other Adverse Effects	The toxicological properties have not been fully investigated See actual entry in RTECS for complete information.

#### Endocrine Disruptor Information No

No information available

### **12. ECOLOGICAL INFORMATION**

Ecotoxicity	
Do not empty into drains	
Persistence and Degradability	No information available
<b>Bioaccumulation/ Accumulation</b>	No information available
Mobility	No information available

### **13. DISPOSAL CONSIDERATIONS**

Waste Disposal MethodsChemical waste generators must determine whether a discarded chemical is classified as a<br/>hazardous waste. Chemical waste generators must also consult local, regional, and national<br/>hazardous waste regulations to ensure complete and accurate classification

### **14. TRANSPORT INFORMATION**

#### DOT

UN1325
FLAMMABLE SOLIDS, ORGANIC, N.O.S.
4.1
III

#### TDG

UN-No	UN1325
Proper Shipping Name	FLAMMABLE SOLID, ORGANIC, N.O.S.
Hazard Class	4.1
Packing Group	III

#### IATA

UN-No	1325
Proper Shipping Name	FLAMMABLE SOLID, ORGANIC, N.O.S.*
Hazard Class	4.1
Packing Group	III

#### IMDG/IMO

UN-No	1325
Proper Shipping Name	FLAMMABLE SOLID, ORGANIC, N.O.S.
Hazard Class	4.1
Packing Group	III

### **15. REGULATORY INFORMATION**

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International Inventories											
Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	CHINA	KECL
Stearic acid	Х	Х	-	200-313-	-		Х	Х	Х	Х	Х
				4							

#### Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated

polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

#### **U.S. Federal Regulations**

TSCA 12(b) Not applicable

#### **SARA 313**

Not applicable

#### SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

#### **Clean Water Act**

Not applicable

**Clean Air Act** Not applicable

**OSHA** Not applicable

### CERCLA

Not Applicable

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

# State Right-to-Know

Not applicable

#### **U.S. Department of Transportation**

Reportable Quantity (RQ):	N
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

#### U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

#### **Other International Regulations**

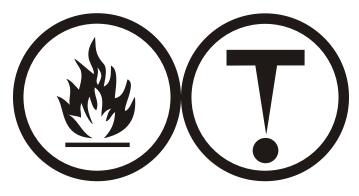
Mexico - Grade

No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class B4 Flammable solid D2A Very toxic materials D2B Toxic materials



### **16. OTHER INFORMATION**

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 Regulatory Affairs

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 Revision Summary
 "\*\*\*", and red text indicates revision

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.

End of MSDS