

Stearic Acid


Safety Data Sheet according to Federal Register / Vol. 77, No. 58 /
March 26, 2012 / Rules and Regulation

Revision Date: 15-Nov-2022
Supersedes: 01-Jul-2021

1 PRODUCT & COMPANY IDENTIFICATION

Product Name:	Stearic Acid	Distributor:	XI'AN AOGU BIOTECH CO.,LTD1
Synonyms:	octadecanoic acid, heptadecane-carboxylic acid	Address:	Room 606,Block B3,Jinye Times,No.32,East Section of Jinye Road, Yanta District,Xi'an Shaanxi 710065 China
INCI Name:	Stearic Acid	Phone / Fax:	0086-29-89121514 0086-18091843361
CAS Number:	57-11-4	Web:	www.aogubio.com
Formula:	C ₁₈ H ₃₆ O ₂	Emergency Telephone Number:	0086-18091843361
Product Form:	Solid		
Product Use:	Cosmetic use		

2 HAZARDS IDENTIFICATION

GHS Classification:	Not classified												
GHS Labeling:	Not classified												
GHS Hazard Pictograms:													
GHS Hazard Statements:	H319: Causes serious eye irritation H500: May form combustible dust concentrations in air												
GHS Precautionary Statements:	None												
Potential Health Hazards:	Eyes: May be irritant. Inhalation: Not expected to be irritant. Skin: May be irritant. Ingestion: May be irritant.												
NFPA Ratings (704):	<table border="0"> <tr> <td style="background-color: #0070C0; color: white;">Health</td> <td>1</td> <td>Slight</td> </tr> <tr> <td style="background-color: #FF0000; color: white;">Flammability</td> <td>1</td> <td>Slight</td> </tr> <tr> <td style="background-color: #FFFF00; color: black;">Reactivity</td> <td>0</td> <td>Minimal</td> </tr> <tr> <td>Specific Hazard</td> <td>n/a</td> <td></td> </tr> </table>	Health	1	Slight	Flammability	1	Slight	Reactivity	0	Minimal	Specific Hazard	n/a	
Health	1	Slight											
Flammability	1	Slight											
Reactivity	0	Minimal											
Specific Hazard	n/a												

3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>Weight %</u>	<u>Molecular Weight</u>
Stearic Acid	57-11-4	100%	284.4772 g/mol

4 FIRST AID MEASURES

Eyes:	May cause slight irritation. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists get medical attention.
Inhalation:	None expected under conditions of normal use. If irritation occurs, move to fresh air and ventilate suspected area. Call a physician if symptoms develop or persist.
Skin:	Prolonged contact may cause slight irritation. Removed contaminate clothing. Wash off skin with soap and water for at least 15 minutes. Get medical attention if irritation develops or persists.
Ingestion:	If a large quantity has been ingested: nausea, vomiting, and diarrhea may occur. Rinse mouth, Do NOT induce vomiting.

5 FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:	Sand, CO ₂ , Dry chemical. Do NOT use a water jet.
Special protective equipment & precautions for firefighters:	Firefighters should wear full protective clothing including self-contained breathing apparatus.
Flash Points:	392 °F (200 °C)
Specific hazards arising from the	Will burn at high temperatures. Liquid product may have temperature exceeding 50 °C / 122 °F.

chemical:

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment & emergency procedures:
Environmental precautions:
Methods and material for containment and cleaning up:

See section 8 for recommendations on the use of personal protective equipment.
 Prevent entry into waterways, sewers, basements or confined areas.
 Isolate spill area immediately. Keep unauthorized personnel away. Ventilate closed spaces before entering. Do not touch or walk through spilled material. Surface may become slippery after spillage. Use vacuum or broom and remove to disposal container. If damp, flush with water.

7 HANDLING & STORAGE

Precautions for safe handling:
Conditions for safe storage, incl. any incompatibilities:

Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again leaving work.
 Avoid contact with strong oxidizing agents. Keep away from heat and direct sunlight. Avoid extreme temperatures. Do not handle or store near an open flame, heat or other sources of ignition. Keep the container tightly closed and in a cool, well-ventilated place.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Component</u>	<u>Exposure Limits</u>	<u>Basis</u>	<u>Entity</u>
Stearic Acid	Not determined		

TWA: Time Weighted Average over 8 hours of work.
 TLV: Threshold Limit Value over 8 hours of work.
 REL: Recommended Exposure Limit
 PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.
 IDLH: Immediately Dangerous to Life or Health
 WEEL: Workplace Environmental Exposure Levels
 CEIL: Ceiling

Personal Protection:

Eyes: Safety glasses, goggles, or face shield recommended for eye protection.
Inhalation: Wear NIOSH approved respiratory protection as appropriate to operating conditions.
Body: Gloves recommended to prevent prolonged skin contact.
Other: Emergency eye wash fountains and safety showers should be provided. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance, Physical State:	Waxy solid (flakes, beads, powder)	Vapor Pressure:	<1 mmHg at 131°C; 5.06E ⁻⁵ hPa at 250°C
Odor:	Oil like odor	Vapor Density:	Not available
Taste:	Not available	Viscosity	8.04 mPa.s at 65°C (dynamic)
Color:	Pale yellow	Partition Coefficient:	Log Pow: 7.05-8.23 (n-octanol/water)
Molecular Weight:	284.4772 g/mol	Upper/lower Explosive Limit:	Not available
pH (1% sol. in water)	Not available	Solubility:	Insoluble in water
Boiling Point:	>300°C (572°F)	Flash Point:	>200°C (392°F)
Melting/Freezing Point:	55-60°C (131-140°F)	Specific Gravity:	0.85 g/mL at 75°C

10 STABILITY AND REACTIVITY

Reactivity: Product is stable
Chemical Stability: Stable under normal conditions of storage and handling.
Hazardous Polymerization: Not likely to occur
Conditions to Avoid: Not available
Incompatible Materials: Avoid contact with strong oxidizing agents. Keep away from heat and direct sunlight. Avoid extreme temperatures.
Hazardous Decomposition Products: Will not occur.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity:	Acute oral toxicity (LD50): Not available
Skin:	>2,000 mg/kg (rabbit). Prolonged contact may cause skin irritation.
Eyes:	May cause sight irritation.
Respiratory:	May cause mild irritation.
Ingestion:	>5,00 mg/kg (rat). >10 g.kg (rat). If a large quantity has been ingested: nausea, vomiting, and diarrhea may occur.
Carcinogenicity:	Not classified as a carcinogen.
Teratogenicity:	Not available
Germ Cell Mutagenicity:	Not available
Embryotoxicity:	Not available
Specific Target Organ Toxicity:	Not available
Reproductive Toxicity:	Not available
Respiratory/Skin Sensitization:	Not available

12 ECOLOGICAL INFORMATION

Ecotoxicity:	Avoid release to the environment.
Aquatic Vertebrate:	Not available
Aquatic Invertebrate:	Not available
Terrestrial:	Not available
Persistence and Degradability:	Easily biodegradable
Bioaccumulative Potential:	Not available
Mobility in Soil:	Not available
PBT and vPvB Assessment:	Not available
Other Adverse Effects:	Not available

13 DISPOSAL CONSIDERATIONS

Waste Residues: Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

Product Containers: Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

The information in section 13 is for the product as shipped. Use and/or alterations to the product may change the characteristics of the material and alter the waste classification and proper disposal methods

14 TRANSPORT INFORMATION

DOT (Dept. of Transportation, USA):	Not regulated
TDG (Transportation of Dangerous Goods, Canada):	Not regulated
IMDG (International Maritime Dangerous Goods):	Not regulated
IATA (International Air Transport Association):	Not regulated
ICAO (International Civil Aviation Organization):	Not regulated
Harmonization Code:	2915700120

15 REGULATORY INFORMATION

TSCA Inventory Status:	Listed as stearic acid
DSCL (EEC):	This product is not classified according to the EU regulations. Not applicable.
WHMIS (Canada):	Not controlled under WHMIS (Canada)

16 OTHER INFORMATION

Revision Date:	15-Nov-2022
Compliance:	This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

Disclaimer:

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.