spectrum®



SAFETY DATA SHEET

Preparation Date: 10/5/2016	Revision Date: 6/15/2018	Revision Number: G2				
1. IDENTIFICATION						
Product identifier						
Product code: Product Name:	ST110 STEARIC ACID, POWDER, NF					
Other means of identification Synonyms:	Octadecanoic Acid product is a mixture of stearic and palmitic (hexadecanoic) acid (C16H32O2) ob vegetable or animal origin	, , ,				
CAS #:	57-11-4					
RTECS #	WI2800000					
CI#:	Not available					
Recommended use of the chem	ical and restrictions on use					
Recommended use:	Chemical intermediate. Dispersing agent. In lubric	ants. In pharmaceuticals.				
Uses advised against	Cosmetics. No information available					
Uses auviseu against						
Supplier:	Spectrum Chemical Mfg. Corp 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000					
Order Online At: Emergency telephone number Contact Person: Contact Person:	https://www.spectrumchemical.com Chemtrec 1-800-424-9300 Martin LaBenz (West Coast) Ibad Tirmiz (East Coast)					

2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

Not classified

Hazards not otherwise classified (HNOC) Not Applicable

Other hazards Not available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %			
Stearic Acid	57-11-4	40-60			
Palmitic Acid	57-10-3	40-60			
	4. FIRST AID MEASURES				
First aid measures					
General Advice:	National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.				
Skin Contact:	Wash off immediately with soap and plenty shoes. Get medical attention if irritation dev	of water removing all contaminated clothing and elops. Consult a physician if necessary.			
Eye Contact:	Flush eyes with water for 15 minutes. Get m persist, call a physician.	nedical attention if irritation occurs. If symptoms			
Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.				
Ingestion:	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.				
Most important symptoms and effect	ts, both acute and delayed				
Symptoms	Health injuries are not known or expected u	nder normal use			
Indication of any immediate medical	attention and special treatment needed				
Notes to Physician:	Treat symptomatically.				
Protection of first-aiders First-Aid Providers: Avoid exposure to contaminated clothing and equipment a	blood or body fluids. Wear gloves and othe as bio-hazardous waste.	r necessary protective clothing. Dispose of			
	5. FIRE-FIGHTING MEASURE	ES			
Extinguishing Media Suitable Extinguishing Media:	Dry chemical. C foam.	arbon dioxide (CO2). Water spray, mist, or			
Unsuitable Extinguishing Media:	No information	No information available.			
Specific hazards arising from	the chemical				
Hazardous Combustion Product	s: Carbon Monoxi	Carbon Monoxide, Carbon Dioxide.			
Specific hazards:	May be combus	tible at high temperatures.			
Special Protective Actions for	Firefighters				
Specific Methods:	No information	available.			
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Special Protective Equipment for Firefighters:

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions:	Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Remove all sources of ignition.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
Methods and material for contai	nment and cleaning up
Methods for containment	Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.
Methods for cleaning up	Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not ingest. Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Materials:

Strong oxidizing agents

Strong bases

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Stearic Acid	57-11-4	None	None	10 mg/m ³ TWA inhalable particulate matter 3 mg/m ³ TWA respirable particulate	None

				matter	
Palmitic Acid	57-10-3	None	None	None	None

Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Stearic Acid	57-11-4	None	None	None	None
Palmitic Acid	57-10-3	None	None	None	None

Australia and Mexico

Components	CAS-No.	Australia	Mexico
Stearic Acid	57-11-4	None	None
Palmitic Acid	57-10-3	None	None

Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection:	Goggles or Safety glasses with side-shiel	ds			
Skin and body protection:	Gloves Chemical resistant apron Long sleeved clothing				
Respiratory protection:	Effective dust mask. or. Wear respirator with dust filter. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.				
Hygiene measures:	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.				
9	PHYSICAL AND CHEMICAL PROPI	ERTIES			
Physical state: Solid	Appearance: Powder.	Color: White to yellowish.			
Odor: Slight.	Taste No information available.	Formula: No information available			
Molecular/Formula weight: No information available	Flammability:Flashpoint (°C/°F):No information available196 (°C)/385 (°F)				
Flash Point Tested according to: Not available	Autoignition Temperature (°C/°F): No information available	Lower Explosion Limit (%): No information available			

Upper Explosion Limit (%): No information available

Boiling point/range(°C/°F): 361°C (682°F)

Specific gravity: 0.839

Evaporation rate: No information available

Odor threshold (ppm): No information available

Miscibility: No information available Melting point/range(°C/°F): 53° - 59°C (127.4° - 138.2°F) (also the No information available freezing point)

Bulk density: No information available

pH: No information available

Vapor density: No information available

Partition coefficient (n-octanol/water): No information available

Solubility: Insoluble in water Soluble in Ether Soluble in Chloroform Soluble in Carbon Disulfide Soluble in Carbon tetrachloride Soluble in Acetone Slightly soluble in Benzene Slightly soluble in Ethanol

Decomposition temperature(°C/°F):

Density (g/cm3): No information available

Vapor pressure @ 20°C (kPa): No information available

VOC content (g/L): No information available

Viscositv: No information available

10. STABILITY AND REACTIVITY

Reactivity Reactive with oxidizing agents

Chemical stability	
Stability:	Stable under recommended storage conditions.
Possibility of Hazardous Reactions:	Hazardous polymerization does not occur
Conditions to avoid:	Incompatible materials. Heat. Avoid dust formation.
Incompatible Materials:	Strong oxidizing agents Strong bases
Hazardous decomposition products:	Carbon oxides. When heated to decomposition it emits acrid smoke and irritating fumes.
Other Information Corrosivity:	No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure: Skin. Eyes. Inhalation. Ingestion.

Component Information

Staaria Asid						
Stearic Acid CAS-No.	57-11-4					
	LD50/oral/rat = 4600 mg/kg Oral LD50 Rat					
LD50/oral/mouse = No information available						
LD50/dermal/rabbit = >5000						
LD50/dermal/rat = No information						
LC50/inhalation/rat = No info						
LC50/inhalation/rat = No information available						
	ion = No information available					
Palmitic Acid						
CAS-No.	57-10-3					
LD50/oral/rat = > 10 g/kg Ora						
LD50/oral/mouse = No inform						
LD50/dermal/rabbit = No info						
LD50/dermal/rat = No information						
LC50/inhalation/rat = No info						
LC50/inhalation/mouse = No						
	ion = No information available					
Product Information						
LD50/oral/rat =						
VALUE- Acute Tox Oral = No int	formation available					
LD50/oral/mouse = Value - Acute Tox Oral = No info	ormation available					
LD50/dermal/rabbit VALUE-Acute Tox Dermal = No	information available					
LD50/dermal/rat VALUE -Acute Tox Dermal = No	o information available					
LC50/inhalation/rat VALUE-Vapor = No information a VALUE-Gas = No information ava VALUE-Dust/Mist = No information	ailable					
LC50/Inhalation/mouse VALUE-Vapor = No information available VALUE - Gas = No information available VALUE - Dust/Mist = No information available						
Symptoms_						
Skin Contact:	May cause skin irritation.					
Eye Contact:	Dust or powder may cause eye irritation by mechanical action.					
Inhalation	Inhalation of dust or powder may cause respiratory tract irritation.					
Ingestion	Health injuries are not known or expected under normal use. Ingestion may gastrointestinal irritation, nausea, vomiting and diarrhea.	cause				
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Aspiration hazardNo information available.Delayed and immediate effects as well as chronic effects from short and long-term exposureChronic ToxicityNo information available.Sensitization:No information available.Mutagenic Effects:No information available

Carcinogenic effects:

Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Stearic Acid	57-11-4	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
Palmitic Acid	57-10-3	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity	No data is available
Reproductive Effects:	No information available
Developmental Effects:	No information available
Teratogenic Effects:	No information available

Specific Target Organ Toxicity

STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Target Organs:	No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects:	Aquatic environment.	
Palmitic Acid - 57-10-3 Freshwater Fish Species Data:	150 mg/L LC50 Oryzias latipes 96 h 1	
Persistence and degradability:	No information available	
Bioaccumulative potential:	No information available.	
Mobility:	No information available.	

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products: Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging: Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Stearic Acid	57-11-4	None	None	None	None
Palmitic Acid	57-10-3	None	None	None	None

14. TRANSPORT INFORMATION

DOT	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Class	No information available
Packing group:	No information available
Emergency Response Guide	No information available
Number	N I I I I I I I I I I
Marine Pollutant	No data available
DOT RQ (lbs):	No information available
Special Provisions	No Information available No information available
Symbol(s):	No information available
Description:	No information available
TDG (Canada)	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available
Marine Pollutant	No Information available
Description:	No information available
ADR	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Packing Group:	No information available
Subsidiary Risk:	No information available
-	
IMO / IMDG	Not Dogulated
UN-No:	Not Regulated No information available
Proper Shipping Name: Hazard Class:	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available
Marine Pollutant	No information available
Marmerondtant	
RID	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available
Product code: ST110	Product name: S

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ICAO	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available
ΙΑΤΑ	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available

15. REGULATORY INFORMATION

International Inventories

Special Provisions

ERG Code:

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Stearic Acid	57-11-4	PresentACTIV E	Present KE-26333	Present	Present (2)-609,(2)-60 8	Present	Present	Present 200-313-4
Palmitic Acid	57-10-3	PresentACTIV E	Present KE-18438	Present	Present (2)-608	Present	Present	Present 200-312-9

U.S. Regulations

 Stearic Acid
 FDA - Food Additives Generally Recognized as Safe (GRAS):
 21 CFR 184.1090

 FDA - Direct Food Additives
 21 CFR 172.615, 21 CFR 172.860
 FDA - 21 CFR - Total Food Additives
 172.210, 172.615, 172.860, 173.340, 175.105, 175.300, 184.1090

 Palmitic Acid
 21 CFR 172.860
 FDA - Direct Food Additives
 21 CFR 172.860

 FDA - Direct Food Additives
 172.210, 172.860, 173.340, 175.105, 175.300, 184.1090
 Palmitic Acid

 FDA - Direct Food Additives
 172.210, 172.860
 173.340
 175.105, 175.300, 184.1090

No information available

No information available

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen		Reproductive	Female Reproductive Toxicity:
Stearic Acid	57-11-4	Not Listed	Not Listed	Not Listed	Not Listed
Palmitic Acid	57-10-3	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Stearic Acid	57-11-4	None	None	None	None	None
Palmitic Acid	57-10-3	None	None	None	None	None

U.S. TSCA

Components	CAS-No.	TSCA Section 5(a)2 - Chemicals	TSCA 8(d) -Health and Safety
		With Significant New Use Rules	Reporting
		(SNURS)	
Stearic Acid	57-11-4	Not Applicable	Not Applicable
Palmitic Acid	57-10-3	Not Applicable	Not Applicable

Canada

WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Not a dangerous product according to HPR classification criteria. Information:

Component Stearic Acid 57-11-4 (40-60) WHMIS 2015 Hazard Classification Self-heating substances and mixtures - Undefined:; Combustible Dust - Category 1: May form combustible dust concentrations in air (factors such as combustibility and explosiveness of dusts including composition and shape and size of particles could cause substance to belong to 'Combustible dust' hazard class; under certain conditions material can self-heat by reaction with air and without energy supply)

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

WHMIS 1988 Hazard Class Non-controlled

Components Stearic Acid

WHMIS 1988 Uncontrolled product according to WHMIS classification criteria

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Components	WHMIS Ingredient Disclosure List -
Stearic Acid	1 %

Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Stearic Acid	57-11-4	Present	Not Listed
Palmitic Acid	57-10-3	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Stearic Acid	57-11-4	Not listed
Palmitic Acid	57-10-3	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Stearic Acid	57-11-4	Not listed
Palmitic Acid	57-10-3	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Stearic Acid	57-11-4	
Palmitic Acid	57-10-3	

EU - CLP (1272/2008)

R-phrase(s)

not determined (not applicable)

S -phrase(s)

none

Components	CAS-No.	 Concentration Limits:	Safety Phrases
Stearic Acid	57-11-4	No information	
Palmitic Acid	57-10-3	No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

None.

16. OTHER INFORMATION

Preparation Date:	10/5/2016
Revision Date:	6/15/2018
Prepared by:	Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet