Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Section 1: Identification

Product Name Stearic Acid NF Flakes (Triple Pressed)
Commercial Name Not available
Product Use Not available
Restrictions On Use Not available

Product Code 30-2204

Company
PCCA
9901 South Wilcrest
Houston, TX 77099
Phone: 1-800-331-2498
Fax: 1-800-874-5760

In case of emergency contact:
CHEMTREC (24hr) 1-800-424-9300

Section 2: Hazard(s) Identification

OSHA Haz Com: CFR 1910.1200 Not classified

Signal Word NON-HAZARDOUS

Hazard Statement(s) Not available

Pictogram(s) or Symbol(s)

Precautionary Statement(s):

Prevention Not available.
Response Not available
Storage Not available.
Disposal Not available

Section 3: Composition/Information on Ingredients

Substance/Mixture Mixture
Components Octadecanoic acid, Hexadecanoic acid, Tetradecanoic acid, Margaric acid
% By Weight Octadecanoic acid:69.0%, Hexadecanoic acid26.5%, Tetradecanoic acid:3.0%, Margaric acid1.0000%
CAS# 57-11-4, 57-10-3, 54
Molecular Weight 284.48 g/mole
Chemical Formula C18H36O2
Synonym(s) Octadecanoic acid; 1-Heptadecanecarboxylic acid; Stearophanic acid; n-Octadecanoic acid

Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Stearic acid	57-11-4	69.0	TWA: 10 (mg/m3)from ACGIH	Not applicable.
Mexadecanoic acid	57-10-3	26.5		
Tetradecanoic acid	544-63-8	3.0		
Margaric acid	506-12-7	1.0000		

Section 4: First-Aid Measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist

Skin Contact Rinse skin with water/shower. Get medical attention if irritation develops and persists

Eye Contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.

Symptoms/Effects

Acute None known

Delayed None known

Immediate Medical Attention

Treat symptomatically.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media

Water. Foam. Dry chemical or CO2. Use fire-extinguishing media appropriate for surrounding materials

Unsuitable Extinguishing Media

Not available.

Products of Combustion

No unusual fire or explosion hazards noted

Firefighters Special Equipment and Precautions

Wear suitable protective equipment Use water spray to cool unopened containers. As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing. Use standard firefighting procedures and consider the hazards of other involved materials. Cool containers exposed to flames with water until well after the fire is out.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Keep unnecessary personnel away. Wear appropriate personal protective equipment. Avoid inhalation of dust from the spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. For personal protection, see section 8 of the SDS Methods and materials for containment and cleaning up: For waste disposal, see section 13 of the SDS. Avoid the generation of dusts during clean-up. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean surface thoroughly to remove residual contamination. Environmental precautions: Avoid discharge into drains, water courses or onto the ground.

Section 7: Handling and Storage

Handling; As a general rule, when handling USP Reference Standards, avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Clean equipment and work surfaces with suitable detergent or solvent after use. After removing gloves, wash hands and other exposed skin thoroughly. Select and use containment devices and personal protective equipment based on a risk assessment of material potency and exposure potential Storage: Store in tight container as defined in the USP-NF. This material should be handled and stored per label instructions to ensure product integrity.

Section 8: Exposure Controls/Personal Protection

Exposure Limits The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits. US. ACGIH Threshold Limit Values ValueMaterial Type TWA 10 mg/m3

Engineering Controls For laboratory operations, use good technique and limit open handling. Control exposures to below the occupational exposure level (if available). Select and use containment devices and personal protective equipment based on a risk assessment of exposure potential. Cover all containers for solutions and slurries while being transferred.

Personal Protection	Eye/face protection: Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. Anemergency eye wash station should be available. Skin protection Hand protection: Wear nitrile or other impervious gloves if skin contact is possible. When the material is dissolved or suspended in an organic solvent, wear gloves that provide protection against the solvent. Other: Wear lab coat. Base the choice of skin protection on the job activity, potential for skin contact and solvents and reagents in use. Do not wear protective garments in common areas (e.g., cafeterias) or out-of-doors. Respiratory protection: Respirators are generally not required for laboratory operations. Chose respiratory protection appropriate to the task and the level of existing engineering controls. Thermal hazards: Wear appropriate thermal protective clothing, when necessary. General Hygiene: Handle in accordance with good industrial hygiene and safety practice. Handling practices in this SDS are recommendations for laboratory use of reference standards. Procedures for any other uses or quantities should be determined after an appropriate assessment

Section 9: Physical and Chemical Properties

Appearance	Solid. (Crystalline solid. Powdered solid.) Color: White. Light yellow
Odor	Characteristic
Odor Threshold	20 ppm

Melting Point	156.2 - 161.6 °F (69 - 72 °C)	**pH**	Not determined
Freezing Point	365F	**Vapor Pressure**	Not applicable.
Boiling Point/Range	721.4 °F (383 °C)	**Vapor Density**	9.8 (Air = 1)
Decomposition temperature	Not determined	**Viscosity**	Not available.
Partition Coefficient: n-octanol/water	8.23	**Evaporation Rate**	Not determined
Flash Point	Not available	**Autoignition temperature**	743 °F (395 °C)
Flammability	Not determined	**Flammability or Explosive Limits:**	
		Lower	Not determined
		Upper	Not determined

Solubility(ies)	Practically insoluble in water. Ether: Freely soluble. Chloroform: Freely soluble. Benzene: Freely soluble. Ethanol: Soluble. Propylene glycol: Soluble Acetone: Soluble.
Other	Chemical family Linear aliphatic derivative (glyceride); fatty acid. Kinematic viscosity 12 mm2/s (158 °F (70 °C)) Molecular formula C18H36O2 Molecular weight 284.48 Specific gravity 0.94 at 20 °C Surface tension 0.03 mN/m (68 °F (20 °C))

Section 10: Stability and Reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical Stability	Material is stable under normal conditions.
Hazardous Polymerization	No dangerous reaction known under conditions of normal use
Conditions to Avoid	Contact with incompatible materials.
Incompatible Materials	Strong oxidizing agents. Sulfuric acid. Amines. Isocyanates. Strong bases.
Hazardous Decomposition Products	Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions.

Section 11: Toxicological Information

RTECS WI2800000

Acute Toxicity
Dermal Acute LD50 Rabbit > 5000 mg/kg

Skin Corrosion/Irritation
Not considered a skin irritant

Serious Eye Damage/Irritation
Not considered an eye irritant based on animal testing

Respiratory or Skin Sensitization
Not available

Germ Cell Mutagenicity
Not available

Carcinogenicity
Not available

Reproductive Toxicity
Not available

Routes of Entry
Inhalation. Ingestion.

Symptoms Related to Exposure
Not available

Potential Health Effects
Not available

Target Organ(s) Not available

Section 12: Ecological Information

Ecotoxicity
EC50 Pseudomonas putida > 100 mg/l, 16 hours LC50Fish Carp (Cyprinus carpio) > 1000 mg/l, 48 hours

Persistance and Degradability
Not determined

Bioaccumulative Potential
Not determined

Mobility in Soil
Not determined

Other Adverse Effects
Not determined

Section 13: Disposal Considerations

Waste Disposal
Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations

Disposal of Container
Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner

Other Considerations
The waste code should be assigned in discussion between the user, the producer and the waste disposal company

Section 14: Transport Information

DOT Classification
DOT Not a DOT controlled material (United States). This material is not classified dangerous good according to international transportation regulations (ADR/RID-IMDG-ICAO/IATA).

Section 15: Regulatory Information

Regulations
Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355 (used for SARA 302, 304, 311 and 312). Components present in this product at a level which could require reporting under the statute are: NONE Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual report release of toxic chemicals that appear in 40 CFR 372 (used for SARA 313). This information must be included in all MSDSs that are copied and distributed for this material. Components present in this product at a level which could require reporting under the statute are: NONE;Pensylvania Right-To-Know, Hazardous substance List, Hazardous Substances and Special hazardous Substances on the list must be identified when present in products. Components present in this product at a level which could require reporting under the statute are: NONE Massachusetts Right-To-Know, Substance List (MSL) Hazardous Substances and Extraordinarily Hazardous Substances on the MSL must be identified when present in products. Components present in this product at a level which could require reporting under the statute are: NONE Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of Hazardous Substances equal or greater than the reportable quantities (RQs) in 40 CFR 302.4. Components present in this product at a level which could require reporting under the statute are: NONE

Other

WHMIS Not controlled under WHMIS (Canada). (Canada);DSCL (EEC) This product is not classified according to the EU regulations.;Gloves.;Lab coat.;Dust respirator. Be sure to use an approved/certified respirator or equivalent.;Safety glasses.

Section 16: Other Information

All recovered material should be packaged, labeled, transported, and disposed or reclaimed in conformance with applicable laws and regulations and in conformance with good engineering practices. Avoid landfilling of liquids. Reclaim where possible.