
 SITARA CHEMICAL INDUSTRIES LTD	SAFETY DATA SHEET (SDS)	
	STEARIC ACID	
	Document #: SCIL/SNP/SDS-03	Issue Date: 01-Jan-24
	Revision: 0	Next Rev: 31-Dec.-26

SAFETY DATA SHEET STEARIC ACID

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SECTION 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF SUPPLIER

Material name	Stearic Acid (Vegetable)
Synonym(s)	1-Heptadecanecarboxylic Acid; Octadecanoic Acid; Stearophanic Acid
Supplier:	Sitara Chemical Industries Ltd.
Address:	32-K.M, Sheikhupura Road, Faisalabad
Telephone Number:	(+92)041-4689141-5
Emergency Number	(+92)041-4689141-5 (Ext.1161)
Website	http://www.sitara.com.pk

SECTION 2. HAZARDS IDENTIFICATION

Eye Contact: This material produced only mild conjunctival erythema in 2 of 6 rabbits at the 24 and 48 hour readings. No other signs of irritation were observed. All signs of irritation had subsided at the 72 hour reading. If shipped in the molten form (approx. 180°F) hot stearic acid causes severe thermal burns to the eyes.

Skin Contact: No signs of irritation or corrosively at either intact or abraded sites on albino rabbit.

Ingestion: LD50: > 10g/kg (Rat) (Stearic and Palmitic Acids)


Inhalation: Unknown

Primary Irritation Index was 0.

75 mg of stearic acid applied intermittently to human skin over a 3-day period resulted in mild irritation. 500 mg of stearic acid applied to rabbit skin over a 24-hour period resulted in moderate irritation.

PEL: No OSHA PEL

TLV: No ACGIH TLV

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:		
CAS 57-10-3	Palmitic Acid	54-60 %
CAS 57-11-4	Stearic Acid	39-45 %
CAS 544-63-8	Myristic Acid	Max 1.0 %
CAS 143-07-07	Lauric Acid	Max 1.0 %
CAS 506-30-9	Arachidic Acid	Max 1.0 %
Percentages are by weight		

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

When inhalation:

Move exposed to fresh air. Loosen clothing as necessary. Give artificial respiration if necessary. Get medical assistance if cough or other symptoms appear.

When in contact with skin:

Wash hands and exposed skin with soap and plenty of water. Seek medical attention if irritation persists or if concerned.

When in contact with eyes:

Rinse or flush exposed eye gently using water for 15-20 minutes. Remove contact lenses while rinsing. Seek medical attention if irritation persists or if concerned.

When ingested:


Rinse mouth thoroughly. Do not induce vomiting. Seek medical attention if irritation, discomfort, or vomiting persists. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed:

Irritation, Headache, Nausea, Shortness of breath.

Indication of any immediate medical attention and special treatment needed:

If seeking medical attention provide SDS document to physician. Physician should treat symptomatically.

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SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents:

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

For safety reasons unsuitable extinguishing agents:

Special hazards arising from the substance or mixture: Thermal decomposition can lead to release of irritating gases and vapors.

Advice for firefighters:

Protective equipment: Wear protective eye ware, gloves, and clothing.

Additional information (precautions): Avoid inhaling gases, fumes, dust, mist, vapor, and aerosols. Avoid contact with skin, eyes, and clothing.

SECTION 6. ACCIDENT RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Wear safety goggles and other Personal Protective Equipment. Ensure adequate ventilation.

Environmental precautions:

Prevent from reaching drains, sewer, or waterway. Should not be released into environment.

Methods and material for containment and cleaning up:

Wear protective gloves, eyeware, and clothing. Always obey local regulations. Containerize for disposal. Absorb with suitable material. If necessary use trained response staff or contractor. Evacuate personnel to safe areas. Keep in suitable closed containers for disposal.


SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:

Avoid contact with skin, eyes, and clothing. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Follow proper disposal methods. Do not eat, drink, smoke, or use personal products when handling chemical substances.

Conditions for safe storage, including any incompatibilities:

Store in a cool location. Keep away from food and beverages. Protect from freezing and physical damage. Provide ventilation for containers. Keep container tightly sealed. Store away from incompatible materials.

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SECTION 8. EXPOSURE CONTROLS /PERSONAL PROTECTION



Control Parameters:

56-81-5, Glycerol, OSHA PEL TWA 15 mg/m³

56-81-5, Glycerol, ACGIH TLV TWA 10 mg/m³

Appropriate Engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above

Respiratory protection:

Not required under normal conditions of use. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved breathing equipment.

Protection of skin:


Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear protective clothing.

Eye protection:

Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses or goggles are appropriate eye protection.

General hygienic measures:

Perform routine housekeeping. Wash hands before breaks and at the end of work. Avoid contact with skin, eyes, and clothing. Before wearing wash contaminated clothing.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state,):	Solid Waxy Flakes
Odor:	Characteristic of wax, fatty
color	White
pH-value:	N/A
Melting point:	53-57 °C
Boiling point/Boiling range:	386 °C (726 °F)(Decomposes)
Solubility in Water	Insoluble
Evaporation rate:	N/A
Specific Gravity(@25°C)	0.849
Water Reactive	No

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions

Incompatibility

(Materials to Avoid): Strong oxidizing agents and strong alkalies

Hazardous Decomposition or Byproducts: Decomposition may produce carbon monoxide and carbon dioxide.

Hazardous Polymerization: None Likely

SECTION 11. TOXICOLOGICAL INFORMATION

Signs and Symptoms of Exposure:	N/A
Threshold Limit Value:	No OSHA PEL, No ACGIH TLV
Medical Conditions Generally Aggravated by Exposure:	None:



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Irritancy:	Ingestion: LD50: > 10g/kg (Rat) (Stearic and Palmitic Acids). Skin: No signs of irritation or corrosively at either intact or abraded sites on albino rabbit
Carcinogenicity:	No Data
Reproductive Toxicity:	No Data
Teratogenicity:	No Data
Mutagenicity:	No Data
Name of toxicologically synergistic products:	N/A

SECTION 12. ECOLOGICAL INFORMATION

Biodegradation: No Data

Fish Toxicity: No Data

Bacterial Toxicity: No Data

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal recommendations:

Disposal method is in accordance with all applicable national environment laws and regulation. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification.


SECTION 14. TRANSPORT INFORMATION

DOT Classification: Not Regulated

Class/Division:

Proper Shipping Name: NA

Label: None

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SECTION 15. REGULATORY INFORMATION

United States (USA)

SARA Section 311/312 (Specific toxic chemical listings): Chronic

SARA Section 313 (Specific toxic chemical listings): None of the ingredients is listed

RCRA (hazardous waste code): None of the ingredients is listed

TSCA (Toxic Substances Control Act): All ingredients are listed.

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):
None of the ingredients is listed

Proposition 65 (California):

Chemicals known to cause cancer: None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed

Chemicals known to cause developmental toxicity: None of the ingredients is listed

Canada

Canadian Domestic Substances List (DSL): All ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 0.1%): None of the ingredients is listed

Canadian NPRI Ingredient Disclosure list (limit 1%): None of the ingredients is listed

SECTION 16. OTHER INFORMATION

Disclaimer: The SDS has been reformatted and updated in accordance to Globally Harmonized System (GHS) Guidelines. This is to be used as reference and guidance purposes only. No responsibilities are accepted for accuracy of information contained in the text. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.