MATERIAL SAFETY DATA SHEET
Stearic Acid

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

1.1 Product Identifier

Product Type: Mixture

Product Name: Stearic Acid

Synonyms: 1-Heptadecanecarboxylic Acid; Octadecanoic Acid; Stearophanic Acid

Formula: C18H36O2

CAS Number: 57-11-4

HS Code: 38231100

1.2 Recommended and restricted uses of the substance or mixture

Recommended uses: Industrial, lubricants, personal care, cleaners, detergents, soap, textile additives, rubber additives

Restricted uses: None known

1.3 Company Identification

Company Name: Cosmo Chemistry India

Company address: Office No. 713, 7th Floor, Millennium Business Hub, Sarthana Jakatnaka, Varachha Main Road, Surat, Gujarat, India - 395006

Company telephone: +91 979797 7958

2.1 Substance

Chemical name	CAS Number
Stearic Acid	57-11-4

2.2 Mixtures

Chemical name	CAS Number	%	Health Hazard
Palmitic acid	57-10-3	-	None
Stearic acid	57-11-4	-	None
Miristic acid	544-63-8	0-1	None
Arachidic acid	506-30-9	0-1	None

SECTION 3: HAZARDS IDENTIFICATION

3.1 Classification of the substance or mixture

Classification (GHS-US): Not classified

3.2 Label Elements

GHS-US Labeling: Not applicable

3.3 Other Hazards

No additional information available

3.4 Unknown Acute Toxicity (GHS-US)

No data available

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: Remove the victim into fresh air. Observe victim's breathing. If breathing is labored, seek immediate medical attention.

Skin contact: Wash with soap and water. If irritation develops, seek medical attention. Launder contaminated clothing. Does not damage skin tissue.

Eye contact: Rinse immediately with plenty of water for 15 minutes. Remove contact lenses if present and easy to do. If irritation occurs, seek immediate medical (ophthalmologist) attention.

Ingestion: Rinse mouth with plenty of water. For ingestion of large quantities, seek immediate medical attention. Do not induce vomiting. Contact poison control center.

4.2 Most important symptoms and effect, both acute and delayed

Symptoms after inhalation: May experience dizziness and headache. Mild irritation of the nose and throat may occur.

Symptoms after skin contact: Mild irritation of the skin may occur.

Symptoms after eye contact: Mild irritation of the eye tissue may occur. May cause corneal inflammation.

Symptoms after ingestion: Mild tingling of the tongue and mouth. May cause gastrointestinal irritation, nausea and vomiting.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment after inhalation: If breathing is labored, seek immediate medical attention.

Treatment after skin contact: If skin irritation occurs, seek immediate medical attention.

Treatment after eye contact: If eye irritation occurs, seek immediate ophthalmologist attention.

Treatment after ingestion: If ingestion of a large quantity, seek immediate poison control center.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable media: Carbon dioxide, alcohol resistant foam and water spray

Unsuitable media: None known

5.2 Specific hazards arising from the substance or mixture

Direct fire hazard: Not flammable

Indirect fire hazard: Exposure to temperature above the flash point (196°C)

Explosive hazard: Exposure to temperature above the flash point (196°C)

Combustion product: Carbon dioxide and carbon monoxide

5.3 Special protective equipment and precautions for fire-fighters

Protective equipment: Full protective clothing. Self-contained breathing apparatus.

Precautions: No additional information available

Emergency response guide: Not a hazardous material

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Mixture is not hazardous. If mixture is a hot mist or dust, stay upwind.

Protective equipment: Wear rubber gloves, rubber boots, face shield and chemical hazard suit. If material is a hot mist or dust, wear dust mask or self-contained breathing apparatus.

Emergency procedures: Mark the spill area with hazard tape or cones. Contain the hot liquid spill area with suitable absorbent. Keep away from streams, rivers and lakes. If mixture is a hot mist or dust, alert immediate neighborhood to close windows and doors. Contain and dissipate hot mist or dust via spraying with water.

6.2 Environmental precautions

Precautions: Keep out of streams, rivers and lakes. Mixture is regulated as oil under the Clean Water Act. Abide by all laws per this regulation.

6.3 Method and materials for containment and cleaning up

For containment: Contain and collect as any solid

Method for cleaning up: Clear up spills immediately and dispose of waste safely

SECTION 7: HANDLING AND STORAGE

Temperature: About 10-20°C above the melting point (53-60°C)

Storage area: Store in dry area, room temperature, dyke area. Protect from heat.

IMDG: Not Applicable

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

No occupational Exposure Limits (OELs) have been established for this product or its chemical components.

8.2 Exposure controls

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

Personal Protective Equipment: Gloves, protective goggles

Hand Protection: Wear chemical resistant protective gloves

Eye Protection: Chemical goggles or safety glasses

Respiratory Protection: Wear approved mask

Other Information: When using, don't eat, drink or smoke

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Property	Value
Physical State	Solid
Appearance	Flakes, beads, powder
Freezing Point Range	53-60°C
Vapor Pressure	1 mmHg @ 174°C
Viscosity	Not applicable
Flash Point	196°C / 384.8°F
Molecular Weight	284.47
Specific Gravity	0.840

9.2 Other Information

No additional information available

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable under normal conditions

Conditions to Avoid: Avoid dust formation. Incompatible products. Excess heat.

Incompatible Materials: Strong oxidizers

Hazardous Decomposition Products: Carbon oxides (CO, CO2)

Hazardous Polymerization: Hazardous polymerization does not occur

Hazardous Reactions: None under normal processing

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity: Not Classified

Component	LD50 Oral (Rat)
Stearic Acid and Palmitic acid	> 10 g/kg

Irritation: No information available

Toxicological Information: Acute Toxicity: Not Classified

Carcinogenicity: No information available

Sensitization: No information available

Mutagenic effects: No information available

Reproductive effects: No information available

Teratogenicity: No information available

Endocrine disruptor information: No information available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Don't empty into drains

Persistence and degradability: Readily biodegradable

Bioaccumulation/accumulation: No information available

Mobility: Will likely be mobile in the environment due to its water solubility

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste disposal recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.

SECTION 14: TRANSPORT INFORMATION

DOT	Not regulated
TDG	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated

SECTION 15: REGULATIONS

Listed in TSCA Inventory

SECTION 16: OTHER INFORMATION

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