



CHEMICAL PRODUCT SAFETY DATA SHEET

STEARIC ACID

Code:	HDSSA
Review:	4
Review date:	March, 2026
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SECCION I IDENTIFICACION

1) Chemical Name	2) Other means of identification	3) Recommended use
Stearic Acid	Octadecanoic Acid Chemical formula: C ₁₈ H ₃₆ O ₂ Molecular weight: 284.48 g/mol	Manufacture of soaps and detergents, cosmetics, candles, lubricants, plasticizers, pharmaceutical and food industry (food grade), mold release agent and stabilizer.
4) Supplier Information:		5) Emergency telephone numbers (SETIQ):
Azinsa Oxidos, S.A. de C.V. Fernando Montes de Oca #21, Bldg. B P2, San Nicolas Tlalnepantla, State of Mexico ZIP 54030		55 59 15 88 (Mexico City) 01 (800) 00 214 (rest of country) 24/7/365 technical emergency assistance

SECTION II — HAZARD IDENTIFICATION

1) Classification (GHS)		
Physical hazards Not classified as flammable under GHS criteria; however, it may form combustible dust when suspended in air.	Health hazards Not classified as hazardous to health under GHS criteria. Dust may cause mild mechanical irritation to eyes and respiratory tract.	Environmental hazards Not classified as hazardous to the aquatic environment
2) Label elements (GHS)		
No mandatory pictograms required under GHS.	No signal word required. No mandatory H statements required. Recommended precautionary statements (P): <ul style="list-style-type: none"> • P261: Avoid breathing dust. • P264: Wash hands thoroughly after handling. • P280: Wear eye protection if dust generation occurs. • P501: Dispose of contents in accordance with local regulations. 	
1) Other hazards not resulting in classification.		
<ul style="list-style-type: none"> • Fine dust may form explosive mixtures with air under extreme conditions. • Risk of combustion if exposed to ignition sources in the form of suspended dust. • Molten product may cause thermal burns. 		

SECTION III — COMPOSITION / INFORMATION ON INGREDIENTS

Substance Identification	CAS No.	UN No.	EC No.	Concentration (% w/w)
Stearic Acid	57-11-4	Not regulated as dangerous goods	200-313-4	≥ 98%

SECTION IV — FIRST-AID MEASURES

1) Description of first-aid measures	
Inhalation:	Move to fresh air; seek medical attention if discomfort persists.



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Ingestion:	Rinse mouth; generally non-toxic; consult a physician if symptoms occur.
Skin contact:	Wash with soap and water; if molten, cool immediately with cold water without removing adhered material.
Eye contact:	Rinse with water for several minutes.
2) Most important symptoms and effects, both acute and delayed	
Acute effects:	Mild reversible irritation.
Chronic effects:	No significant adverse effects expected.
3) Indication of any immediate medical attention and special treatment needed	
Only in case of thermal burns or persistent irritation.	
SECTION V — FIRE-FIGHTING MEASURES	
1) Suitable extinguishing media	
Water spray, foam, CO ₂ , or dry chemical powder.	
2) Specific hazards arising from the substance	
Combustion may produce carbon monoxide and carbon dioxide. Dust may form explosive mixtures.	
3) Special Protective Equipment for Firefighters	
Use self-contained breathing apparatus; avoid dust dispersion.	
SECTION VI — ACCIDENTAL RELEASE MEASURES	
1) Personal precautions, protective equipment and emergency procedures	
Avoid dust generation; wear goggles and mask if necessary.	
2) Environmental Precautions	
Prevent clogging of drains. Not considered a significant environmental hazard.	
3) Methods and materials for containment and cleaning up	
Use self-contained breathing apparatus; avoid dust dispersion.	
SECTION VII — HANDLING AND STORAGE	
1) Precautions for safe handling	
Avoid dust formation; keep away from ignition sources; maintain good industrial hygiene practices.	
2) Conditions for safe storage	
Store in a cool, dry place; keep containers closed; avoid excessive heat and strong oxidizing agents.	
SECTION VIII — EXPOSURE CONTROLS / PERSONAL PROTECTION	
1) Control Parameters	
Recommended total dust: 10 mg/m ³ (general reference for unclassified particulates).	
2) Appropriate Engineering Controls	
Adequate ventilation in areas where dust may be generated.	
3) Personal Protective Equipment (PPE)	
Respiratory Protection:	Particle mask if dust is present.
Hand Protection:	Basic protective gloves.
Eye Protection:	Safety glasses.
Skin and Body Protection	Standard work clothing.



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SECTION IX — PHYSICAL AND CHEMICAL PROPERTIES

1) Appearance:	2) Odor:	3) Odor Threshold:	4) pH:
White waxy solid	Mild characteristic odor	Not determined	Not applicable (insoluble in water)
5) Melting Point	6) Initial Boiling Point:	7) Flash Point	8) Evaporation Rate:
69–70 °C	~361 °C	~196 °C	Not applicable
9) Flammability:	10) Explosive Limits:	11) Vapor Pressure:	12) Vapor Density:
Combustible as dust	Not determined	Low	Not applicable
13) Bulk Density:	14) Solubility:	15) Coefficient (n-octanol/water):	16) Auto-ignition Temperature:
~0.94 g/cm ³	Insoluble in water; soluble in alcohol and ether	Log Kow ~8.2	300 °C
17) Decomposition Temperature:	18) Viscosity:	19) Molecular Weight:	20) Other relevant information
300 °C	Not applicable	284.48 g/mol	Solid fatty substance at room temperature.

SECTION X — STABILITY AND REACTIVITY

Reactivity:	Low reactivity.
Chemical Stability:	Stable under normal conditions.
Possibility of Hazardous Reactions:	No hazardous reactions expected.
Incompatible materials:	Incompatible with strong oxidizing agents.
Conditions to Avoid:	Avoid excessive heat and open flames.
Hazardous Decomposition Products	CO and CO ₂ formed during combustion.

SECTION XI — TOXICOLOGICAL INFORMATION

1) Likely routes of exposure
Exposure routes: inhalation, ingestion, dermal and eye contact.
2) Symptoms related to the physical, chemical, and toxicological characteristics
Mild irritation from dust.
3) Immediate and delayed effects, including chronic effects from short- and long-term exposure
No significant chronic effects expected.
4) Numerical measures of toxicity
Oral LD50 rat > 5000 mg/kg (low toxicity).
5) Interactive effects



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No significant interactive effects known.

6) When chemical data are not available

Classification based on available fatty acid data.

7) Information on Mixtures

Not applicable (single substance).

8) Information on the product or its components

Compound widely used in food and cosmetics.

9) Other information.

Not classified as carcinogenic.

SECTION XII — ECOLOGICAL INFORMATION

1) Toxicity

Low aquatic toxicity.

2) Persistence and degradability

Biodegradable.

3) Bioaccumulative potential

Low real bioaccumulation potential under normal environmental conditions.

4) Mobility in soil

Low soil mobility due to its lipophilic nature.

5) Other adverse effects

No significant adverse effects expected.

6) Additional information.

Biodegradable under aerobic conditions.

SECTION XIII — DISPOSAL CONSIDERATIONS

1) Waste treatment methods.

May be disposed of according to local regulations; not classified as hazardous waste.

2) Disposal of contaminated containers or packaging.

Containers may be recycled if clean.

3) Special precautions for disposal

Avoid large-scale disposal into drains.

4) Recommendations for safe disposal

Manage according to internal waste management program.

5) Additional information

Recycling or energy recovery is preferable.

SECTION XIV — TRANSPORT INFORMATION

1) UN Number

Not regulated by the UN.

2) UN Proper Shipping Name



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Not applicable.

3) Clase(s) relativa(s) al transporte

Not classified as dangerous goods.

4) Packing Group

Not applicable.
ADR/RID: Not regulated
IMDG: Not regulated
IATA: Not regulated

5) Environmental Hazards

Does not represent a regulated environmental hazard.

6) Special Precautions for Users

Transport in closed containers protected from heat.

7) Transport in Bulk According to MARPOL Annex II / IBC Code

Not applicable for bulk transport under MARPOL/IBC.

SECTION XV — REGULATORY INFORMATION

Safety, Health, and Environmental Regulations Specific for the Substance

Not classified as a hazardous substance under NOM-018-STPS-2015.
Comply with applicable general industrial hygiene and safety regulations.

**SECTION XVI OTHER INFORMATION INCLUDING THOSE RELATED TO THE PREPARATION
AND UPDATING OF SAFETY DATA SHEETS**

Information based on available technical data and current GHS criteria.