

Isostearic Acid

MSDS (Material Safety Data Sheet)

November 7, 2012

Product: Isostearic Acid
Chemical Name:
CAS No.: 30399-84-9
EINECS No.: 2501780
MITI No.: 2-608

Section 2 - Composition/Information On Ingredients

: Mainly C18-Saturated branched chain monocarboxylic acids.

: Not considered as hazardous

: NFPA Hazard Ratings (Scale 0-4): Health = 0, Flammability = 1, Reactivity = 0

Section 3 - Hazards Identification

Health Hazards

Inhalation: Not applicable at ambient temperature. Vapor from heated product can cause irritation.

Skin Contact: Unlikely to be irritant.

Eye Contact: Can cause irritation.

Ingestion: Unlikely to be harmful unless excessive amount swallowed.

Physical/Chemicals Hazards: None Identified.

Environmental Hazards: None Identified.

Section 4 - First - Air Measures

Inhalation: Remove to fresh air.

Skin Contact: Wash with plenty of water and soap.

Eye Contact: Wash well with water without delay and obtain medical attention if any sensations persist.

Ingestion: Remove material from mouth. Drink plenty of water. If large amount swallowed or symptoms develop obtain medical attention.

Section 5 - Fire-Fighting Measures

Extinguishing Media: Water (mist), foam, dry powder, carbon dioxide.

Unsuitable Extinguishing Media: None

Specific Hazards: Combustion in a restricted volume of air can produce carbon monoxide.

Special protective Equipment: Protective clothing and self-contained breathing equipment should be available for firemen.

Section 6 - Accidental Release Measures

Personal Precautions: No special precautions required.

Environmental Precautions: Minimize contamination of drains, surface and ground waters.

Methods for Cleaning Up: Absorb spillage onto inert material (e.g. sand) and collect into suitably labeled containers for disposal at an approved site. Residues and small spillages may be washed away with water and detergent.

Section 7 - Handling and Storage

Handling: No special precautions necessary.

Storage: Store in original closed containers. Avoid extremes of temperatures.

Section 8 - Exposure Controls/Personal Protection

General Precautions: Good industrial hygiene should be followed. Avoid breathing heated vapors.

Ventilation: Adequate ventilation should be maintained when handling heated product.

Occupational Exposure Limits: Not Established.

Personal Protective Equipment: Normal precautions should be observed as for handling all chemicals (chemical safety glasses and protective gloves).

Section 9 - Physical and Chemical Properties

Form/Color/Odor:	Liquid/Pale Yellow/Faint	Vapor Pressure (20° C):	<1 mbar
pH:	Not applicable	Density (25° C):	890 kg/m ³ approx.
Boiling Point:	>200 °C	Solubility:	Insoluble in water (20°C)
Cloud Point:	5 °C approx.		Soluble in many organic solvents
Flash Point (COC):	175 °C approx.	Partition coefficient (log Pow) Estimated:	< 3
Autoignition Temperature:	>300 °C	Viscosity (25° C):	45 mPa.s approx.
Explosive/Oxidizing Properties:	Not to be expected	Volatiles:	Not volatile-ambient

Section 10 - Stability and Reactivity

Stability:	Stable under normal conditions.
Conditions to Avoid:	Keep away from heat and flames.
Materials to Avoid:	Strong oxidizing agents.
Hazardous Decomposition Products:	Incomplete combustion can give rise to carbon monoxide.
Hazardous Polymerization:	Will not occur.

Section 11 - Toxicological Information

LD ₅₀ oral, rat:	>2 g/kg
Skin and Eye Irritation:	Non irritant (Rabbit)
Skin Sensitization:	No sensitization reactions.

Section 12 - Ecological Information

Degradability:	Readily biodegradable (>70% degradation within 28 days according to the OECD Modified Sturm Test).
LC ₀ fish/EC ₀ Bacteria (Pseudomonas putida)	No effect at concentrations well above the water solubility.

Section 13 - Disposal Considerations

Waste Disposal Method:	Recycle where possible. Incinerate according to local regulations.
Contaminated Packaging:	Observe local regulations.

Section 14 - Transport Information

DOT Classification:	Not restricted
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Section 15 - Regulatory Information

Classification:	Not hazardous within the meaning of the OSHA Hazard Communication Standard.
Sara hazard	Title III section 313 - not listed.
Inventory status	Listed on TSCA CSI (USA), EINECS (EC) DSL (Canada), AICS (Australia) and MITI (Japan)

Section 16- Other Information

Literature references:	Final report of the safety assessment of isostearic acid. J. of the Am. Coll. Of Toxicol., 2 (1983), no.7
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INCI (CTFA) name	Isostearic Acid
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