



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
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(716) 226-6177

MSDS No. SS 990
Effective Date My 6, 1999

SECTION V HEALTH HAZARD DATA

SS 990

Threshold Limited Value

None established (ACGIH 1992-93). RTECS No. WI2800000
Toxicity data: inv-mus LD50: 23 mg/kg.; inv-rat LD50: 2.15 mg/kg.

Effects of Overexposure

INHALATION: May cause irritation of the upper respiratory tract. **EYES:** No specific hazard is known. However, any material that contacts the eye may be irritating. Exercise appropriate procedures to minimize potential hazards.

Emergency and First Aid Procedures

EYES: Flush thoroughly with water for at least 15 minutes, lifting lower and upper eyelids occasionally. If irritation develops or persists, get medical attention. **SKIN:** Flush thoroughly with water, then wash with mild soap and water. **INHALATION:** Remove to fresh air. If illness or discomfort develops, get medical attention. **INGESTION:** If swallowed, if conscious, give water to drink and call physician. Never give anything by mouth to an unconscious person.

SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Excessive temperature and heat. Slowly volatilizes @ 90-100°C.
	Stable	X	

Incompatibility (Materials to Avoid)	Strong oxidizing agents, strong bases.
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Hazardous Decomposition Products	Combustion will produce carbon dioxide, smoke and probably emits carbon monoxide.
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Hazardous Polymerization		Conditions to Avoid
May Occur	Will Not Occur	Not applicable.
	X	

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Recover for use if not contaminated. Remove all sources of ignition. Sweep up and place in a suitable container for proper disposal. Wash spill area with soap and water.
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Waste Disposal Method	Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only. Dispose of in an approved incinerator or contract with a licensed waste disposal service
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SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None needed in normal laboratory handling. If dusty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved dust mask or respirator.
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Ventilation	Local Exhaust	If dusty.	Special	No.
	Mechanical (General)	None needed.	Other	No.

Protective Gloves	Rubber if sensitive.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Lab coat, eye wash station, fire extinguisher, ventilation hood.
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SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry place away from fire hazards. Wash thoroughly after handling.
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Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals.
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Avoid contact with eyes and skin. Do not take internally.
Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision	No. 4	Date	5/6/99	Approved	Michael Raszeja	Chemical Safety Coordinator	MR
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The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. * Hazardous Materials Industrial Standards. Printed on recycled paper.

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	STEARIC ACID
Chemical Synonyms	Octadecanoic Acid
Formula	CH ₃ (CH ₂) ₁₆ COOH
Unit Size	up to 2.5 Kg.
C.A.S. No.	57-11-4

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CHEMTREC
800-424-9300
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NFPA
HAZARD RATING

LEAST SLIGHT MODERATE
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Health
Fire
Reactivity

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HMIS *

HIGH EXTREME
3 4

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Stearic Acid	100%	None established.
CAUTION! MAY CAUSE IRRITATION.		

SECTION III PHYSICAL DATA

Melting Point (°F)	69.3°C (156°F)	Specific Gravity (H ₂ O = 1)	0.847 at 20°C
Boiling Point (°F)	383°C (721°F)	Percent Volatile by Volume (%)	Non-volatile (NA).
Vapor Pressure (mm Hg)	1 mm @ 173.7°C	Evaporation Rate ()	Non-volatile (NA).
Vapor Density (Air=1)	9.80		
Solubility in Water	Very slightly soluble.		
Appearance & Odor	White, flakes, powder; tallow-like odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	196°C (385°F) (cc)	Flammable Limits in Air % by Volume	Unknown	Lower	Upper
Extinguisher Media	Foam; carbon dioxide (CO ₂); dry chemical (ABC); water spray.				

SPECIAL FIREFIGHTING PROCEDURES

Melted stearic acid should be handled like a grease fire with knowledge that it can float on water and spread. In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials. Susceptible to spontaneous heating. This material in powder form is capable of creating a dust explosion.

Autoignition Temperature: 395°C (743°F).

D.O.T. NON-REGULATED.

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20