



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
Avon, New York 14414
(716) 226-6177

MSDS No. OX 10
Effective Date April 6, 1999

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	OLEIC ACID
Chemical Synonyms	Red Oil, cis-9-Octadecanoic Acid
Formula	$\text{CH}_3(\text{CH}_2)_7\text{CH}:\text{CH}(\text{CH}_2)_7\text{COOH}$
Unit Size	up to 45 Kg
C.A.S. No.	112-80-1

	CHEMTREC 800-424-9300 Day 716-226-6177	Health 0 Fire 1 Reactivity 0
NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4		HMIS * 3 4

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Oleic Acid	min. 80%	None established.
CAUTION! MILDLY IRRITATING TO SKIN, EYES AND MUCOUS MEMBRANES.		

SECTION III PHYSICAL DATA

Melting Point (°F)	14°C (57°F)	Specific Gravity (H ₂ O = 1)	0.895 at 25°/25°C
Boiling Point (°F)	286°C (547°F) 100 mm	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	1 mm at 176.5°C	Evaporation Rate (=1)	N/A
Vapor Density (Air=1)	9.77		
Solubility in Water	Insoluble.		
Appearance & Odor	Colorless to brown oily liquid at 25°C; rancid odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	372°F (189°C) (CC)	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Extinguisher Media	Carbon dioxide (CO ₂); dry chemical.				

SPECIAL FIREFIGHTING PROCEDURES

Water or foam may cause frothing. **USE WATER WITH CAUTION.** Since this material is lighter than water and insoluble in water, the fire could easily be spread by the use of water in the area where the water would not be contained. In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products; can react with oxidizing materials.

Autoignition Temperature: 685°F (363°C).

D.O.T. NON-REGULATED.

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

SECTION V HEALTH HAZARD DATA OX 10

Threshold Limited Value	None established by (ACGIH 1992-93). Toxicity: Oral-rat LD50: 74 grams/kg. ; IRDS: skn-rbt 500 mg open MLD.
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Effects of Overexposure	SKIN AND EYES: May be mildly irritating on prolonged contact. INHALATION: Sufficient concentrations of vapor or mist may interfere with respiratory functions. INGESTION: Large amounts may result in gastrointestinal disturbances with irritation to mouth and stomach. Exercise appropriate procedures to minimize potential hazards.
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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 skin with water, then wash with mild soap and water. INGESTION: Treat symptomatically and supportively. Get medical attention immediately. If vomiting occurs, keep head lower than hips to prevent aspiration. Never give anything by mouth to an unconscious person. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
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SECTION VI REACTIVITY DATA

Stability	Unstable Stable	Conditions to Avoid	Exposure to air and protect from light. Excessive temperature and heat.
Incompatibility (Materials to Avoid)	Strong oxidizing materials.		
Hazardous Decomposition Products	Combustion will produce carbon dioxide and probably carbon monoxide.		

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	Absorb spilled material with an inert dry material and place in suitable container for disposal. Also see below, WASTE DISPOSAL METHOD. 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 oleic acid can be saponified (converted to a soap) with sodium carbonate which solubilizes the material in water. It can then be flushed or hosed off spilled surfaces. The water soluble soaps of oleic acid (sodium or potassium) are biodegradable.
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SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None needed in normal laboratory handling at room temperature. At elevated temperatures work in ventilation hood.			
Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.
Protective Gloves	Rubber.		Eye Protection	Chemical safety glasses.

Other Protective Equipment	Goggles, lab coat, apron, eye wash station, fire extinguisher.
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SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry place away from strong oxidizing materials and fire hazards. Wash thoroughly after handling. Keep container tightly closed when not in use.
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Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals. At atmospheric pressure it decomposes when heated at 80-100°C. On exposure to air, especially when impure, it oxidizes and acquires a yellow to brown color and rancid odor. Remove and wash contaminated clothing.
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For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision No. 5	Date 4/6/99	Approved Michael Raszeja	Chemical Safety Coordinator MR
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