



COLUMBUS CHEMICAL INDUSTRIES INC.

P.O. BOX 8
COLUMBUS, WISCONSIN 53925-0008
(920) 623-2140
FAX (920) 623-2577

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910 1200. Standard must be consulted for specific requirements

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (as Used on Label and List)

Oleic Acid

Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

Section I

Manufacturers /Distributor Address Number Street City State and Zip Code

Columbus Chemical Industries

N4335 Temkin Rd

Columbus, WI 53925-0008

Emergency Telephone Number

CHEMTREC 1-800-424-9300

Telephone Number for Information

920-623-2140

Date Prepared

06-02-2005

Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Table with 6 columns: Hazardous Components (Specific Chemical Identity, Common Name(s)), CAS #, OSHA PEL, ACGIH TLV, Other Limits Recommended, % (optional). Row 1: Oleic Acid*, 112-80-1, Not established, Not established, Not available.

*Synonym: 9-Octadecenoic acid

Section III - Physical/Chemical Characteristics

Table with 4 columns: Property, Value, Property, Value. Rows: Boiling Point (286°C(547°F)), Specific Gravity (H2O = 1) (Not Available), Vapor Pressure (mm Hg) (Not Available), Melting Point (16.3°C(61.3°F)), Vapor Density (AIR = 1) (9.7), Evaporation Rate (Butyl Acetate = 1) (Not Available).

Solubility in Water

Insoluble

Appearance and Odor

Colorless to light yellow liquid

Section IV Fire and Explosion Hazard Data

Table with 4 columns: Flash Point (Method Used), Flammable Limits, LEL, UEL. Row 1: 189 °C / 372 °F (closed cup), Not applicable, Not applicable, Not applicable.

Extinguishing Media

Use water spray, dry chemical, or carbon dioxide to extinguish supporting fire.

Special Fire Fighting Procedures

In the event of a fire, wear full protective clothing and NIOSH/MSHA-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Unusual Fire and Explosion Hazards

Emits toxic fumes under fire conditions. Autoignition temperature 363°C (685°F)

Section V Reactivity Data

Stability	Unstable		Conditions to Avoid	Incompatibles
	Stable	X		Air and Light sensitive

Incompatibility Materials to Avoid

Oxidizers, perchloric acid and powdered aluminum. On exposure to air, turns yellow to brown color with rancid odor.

Hazardous Decomposition or Byproducts

Carbon oxides.

Hazardous Polymerization	Conditions to Avoid		
	May Occur		Not available.
	Will Not Occur	X	

Section VI Health Hazard Data

Routes of Entry	Inhalation ?	Skin ?	Ingestion ?
	Yes	Yes	Yes

Health Hazards (Acute and Chronic)

SKIN: May cause irritation. Absorbed through skin. EYE: Causes eye irritation. INHALATION: May be harmful if inhaled.

Material may be irritating to the mucous membranes and upper respiratory tract.

INGESTION: May be harmful if swallowed.

Carcinogenicity	NTP	IARC Monographs	OSHA REGULATED?
	Not listed	Not listed	Not listed

Signs and Symptoms of Exposure.

Irritation to eyes, skin, mucous membranes and upper respiratory tract characterized by itching, swelling, redness

and pain. Gastrointestinal discomfort and possible pain upon ingestion.

Medical Conditions Generally Aggravated by Exposure

Unknown to CCI.

Emergency and First Aid Procedures **EYES /SKIN:** Immediately flush with large amounts of water for at least 15 minutes.

Remove contaminated clothing. Assure adequate flushing of eyes by separating eyelids with fingers. **INHALATION:**

remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. **INGESTION:**

Give large amounts of water. Call Physician.

Section VII Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled

Wear rubber boots, protective gloves and chemical safety goggles. Absorb on non-combustible material and place in a plastic bag and hold for waste disposal. Large spills may be caustic. Ventilate area and wash spill site after material pickup is complete.

Waste Disposal Method Dispose of material in accordance with all applicable Federal, state, and local regulations.

Precautions to be Taken in Handling and Storing

Store in a cool, dry, well-ventilated area in tightly-closed, plainly-labelled containers. Store in a corrosion-resistant container. Protect against moisture, physical damage and light. Maintain adequate ventilation. Wash thoroughly after handling. Do not ingest or breathe vapors. Protect exposed tissues.

Other Precautions Containers, even when empty, will retain residue and vapors. Always obey hazard warnings and handle empty containers as if they were full.

Section VII Control Measures

Respiratory Protection (Specify Type) NIOSH / MSHA-approved respirator with dust/mist cartridge.

Ventilation	Local Exhaust	Recommended.	Special	Eyewash nearby.
	Mechanical (General)	Recommended.	Other	Safety shower nearby.

Protective Gloves Appropriate chemical-resistant gloves. Eye Protection Safety goggles.

Other Protective Clothing or Equipment Lab coat or apron, boots, dust-mask.

Work /Hygienic Practices Do NOT wear contact lenses when handling material. Wear appropriate personal protective

Wash thoroughly after handling. Do not breath vapors. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Wash contaminated clothing before reuse.

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