

Mallinckrodt

Material Safety Data

Emergency Phone Number: 314-982-5000

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Mallinckrodt, Inc., Science Products Division, P.O. Box M, Paris, KY 40361.

OLEIC ACID

PRODUCT IDENTIFICATION:

Synonyms: 9-Octadecanoic Acid

Formula CAS No.: 112-80-1

Molecular Weight: 282.47

Chemical Formula: $C_{17}H_{33}COOH$

Hazardous Ingredients: None.

PRECAUTIONARY MEASURES

CAUTION! MAY CAUSE IRRITATION.

Avoid contact with eyes, skin and clothing.
Wash thoroughly after handling.

EMERGENCY/FIRST AID

In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes.
SEE SECTION 5.

DOT Hazard Class: Not Regulated

SECTION 1 Physical Data

Appearance: Pale yellow or brownish-yellow oily liquid.

Odor: Characteristic lardlike odor.

Solubility: Insoluble in water.

Boiling Point: 360°C (680°F).

Melting Point: 13.4°C (56.1°F).

Density: 0.890

Vapor Density (Air=1): No information found.

Vapor Pressure (mm Hg): 1.0 @ 176°C (349°F).

Evaporation Rate: No information found.

SECTION 2 Fire and Explosion Information

Fire:

As with most organic liquids, fire is possible at elevated temperatures or by contact with an ignition source.

Explosion:

Not considered to be an explosion hazard.

Fire Extinguishing Media:

Dry chemical, foam or carbon dioxide.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Molten oleic acid will float on water.

SECTION 3 Reactivity Data

Stability:

Stable under ordinary conditions of use and storage.

On exposure to air it can oxidize and turn yellow to brown in color with a rancid odor.

Hazardous Decomposition Products:

Carbon dioxide and carbon monoxide may form when heated to decomposition.

Hazardous Polymerization:

This substance does not polymerize.

Incompatibilities:

Aluminum, perchloric acid.

SECTION 4 Leak/Spill Disposal Information

Remove all sources of ignition. Dike and cover leaking or spilled liquid with dirt, vermiculite, kitty-litter or other inert absorbent. Collect by scooping, mopping or wet vacuuming as appropriate. Package unclaimable material for disposal in an approved waste disposal facility.

Ensure compliance with local, state and federal regulations.

NFPA Ratings: Health: 0 Flammability: 1 Reactivity: 0

Effective Date: 09-04-85

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SECTION 5 Health Hazard Information

A. EXPOSURE / HEALTH EFFECTS

Inhalation:

No adverse effects expected.

Ingestion:

Extremely large oral dosages may produce gastrointestinal disturbances.

Skin Contact:

Mild irritant, possibly causing surface inflammation especially on prolonged contact with oily skin.

Eye Contact:

Mild irritant on prolonged contact, causing reddening, possibly blurred vision.

Chronic Exposure:

No adverse health effects expected.

Aggravation of Pre-existing Conditions:

No adverse health effects expected.

B. FIRST AID

Inhalation:

Not expected to require first aid measures.

Ingestion:

Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.

Skin Exposure:

Remove any contaminated clothing. Wash skin with soap or mild detergent and water for at least 15 minutes. Get medical attention if irritation develops or persists.

Eye Exposure:

Wash thoroughly with running water. Get medical advice if irritation develops.

C. TOXICITY DATA

(RTECS, 1982)

Oral rat LD50: 74 gm/kg. Irritation: skin rabbit:

500 mg open mild. Mutation data references cited.

SECTION 6 Occupational Control Measures

Airborne Exposure Limits:

None established.

Ventilation System:

In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.

Personal Respirators: (NIOSH Approved)

Not expected to require personal respirator usage.

Skin Protection:

Wear protective gloves and clean body-covering clothing.

Eye Protection:

Use chemical safety goggles. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work area.

SECTION 7 Storage and Special Information

Keep in a tightly closed container. Store in a cool, dry, ventilated area away from sources of heat or ignition. Protect against physical damage. Outside or detached storage is recommended. Store in the dark.

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