



NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

Safety Data Sheet (MSDS)

(According to GB/T 16483 and GB/T 17519; Adapts to GHS, IMDG, IATA Standards)

SECTION 1: Identification

1.1 Product Identifiers

- Product Name: Oleic Acid
- Product Number: OLE-20260213
- Brand: SIGALD
- CAS-No.: 112-80-1

Synonyms: cis-9-Octadecenoic acid; Octadecenoic acid

1.2 Details of the supplier of the safety data sheet

- Company : NEWAY SINOPHC TECH. LIMITED
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- Telephone : +86-021-50350029
- Fax : +86-021-50350029

1.3 Emergency telephone

Emergency Phone # : +86-021-50350029
(CHEMTREC)

1.4 Uses

- Identified Uses: Cosmetics (emollient), plastics/rubber (plasticizer/lubricant), surfactant production, paint/ink (drying agent), food additive (emulsifier), biodiesel raw material.
- Uses Advised Against: Avoid heating to >200°C (oxidation); not for direct oral consumption without food grade purification.

SECTION 2: Hazards Identification

2.1 GHS Classification: Skin irritation (Category 2); Eye irritation (Category 2A); Combustible liquid (Category 4)2.2 GHS Label Elements

- Hazard Pictogram: GHS07 (Exclamation mark)
- Signal Word: Warning
- Hazard Statements: H315 (Causes skin irritation), H319 (Causes serious eye irritation), H227 (Combustible liquid)
- Precautionary Statements: P210, P264, P280, P305+P351+P338, P337+P3132.3 Physical/Chemical Hazards: Combustible liquid; oxidizes at high temperature (>200°C) to form acid fumes; no explosive risks.2.4 Health Hazards: Mild skin/eye irritation; prolonged skin contact may cause dryness/chapping; inhalation of vapor may cause mild respiratory irritation.2.5 Environmental Hazards: Low aquatic toxicity; fully biodegradable; no environmental persistence.

SECTION 3: Composition

- Substance / Mixture: Technical Grade Pure Substance (minor linoleic/ palmitic acid impurities)
- Formula: C₁₈ H₃₄O₂
- Molecular Weight: 282.47 g/mol



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- Main Component: Oleic acid ($\geq 80.0\%$); Impurities: Linoleic acid ($\leq 10\%$), Palmitic acid ($\leq 5\%$)
- Hazardous Ingredients: None

SECTION 4: First Aid Measures

- Inhaled: Move to fresh air. If coughing/irritation persists, consult a doctor.
- Skin Contact: Rinse skin with running water and soap for 5–10 minutes; remove contaminated clothing and wash before reuse (moisturize skin after rinsing).
- Eye Contact: Rinse with plenty of water for 10–15 minutes (hold eyelids open). Consult an ophthalmologist if irritation remains.
- Swallowed: Rinse mouth with water; do not induce vomiting. Seek medical advice if large amounts are ingested (may cause gastrointestinal discomfort).

SECTION 5: Firefighting Measures

- Suitable Extinguishing Media: Water spray, foam, CO₂, dry powder.
- Special Hazards: Combustible liquid; heated vapor forms flammable mixtures with air; oxidizes at high temperature to release acrid organic fumes.
- Firefighter Protection: Wear standard fire-fighting gear and respiratory protection (for fumes); cool containers with water spray to prevent re-ignition.

SECTION 6: Accidental Release Measures

- Personal Precautions: Wear nitrile gloves, safety goggles and fire-resistant lab coat; eliminate all ignition sources (no open flames/sparks).
- Cleanup Methods: Absorb spilled liquid with inert materials (sand/vermiculite) or absorbent paper; transfer to sealed HDPE containers for disposal/recycle.
- Environmental Precautions: Prevent runoff into waterways (biodegradable, low risk; contain with dikes for large spills).

SECTION 7: Handling and Storage

- Handling: Operate in well-ventilated area; eliminate ignition sources; avoid skin/eye contact and vapor inhalation; use ground/ bonded equipment for bulk transfer (static prevention).
- Storage Conditions: Cool, dry, well-ventilated warehouse ($\leq 30^{\circ}\text{C}$); store in sealed HDPE drums; keep away from open flames, heat sources and strong oxidizing agents.
- Incompatibilities: Strong oxidizing agents (H₂O₂/KMnO₄), strong alkalis (saponification at high temperature), concentrated acids.
- Shelf Life: 18 months (unopened, under specified conditions; nitrogen-filled for longer shelf life).

SECTION 8: Exposure Controls/Personal Protection

- PPE: Nitrile gloves, chemical splash goggles, fire-resistant lab coat for routine handling; respirator with organic vapor cartridge for high-temperature operations.
- Engineering Controls: Basic ventilation; local exhaust ventilation for heating/melting operations; fire suppression system (CO₂) in work area.
- Occupational Exposure Limits: No established limits (low toxicity, mild irritation).

SECTION 9: Physical and Chemical Properties



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- Physical State: Clear liquid (25°C)
- Color: Pale yellow to light brown
- Odor: Faint fatty acid odor
- Solubility: Insoluble in water, soluble in ethanol/ether/acetone/ vegetable oils
- Acid Value: 190–200 mg KOH/g
- Iodine Value: 80–100 g I₂/100g
- Freezing Point: ≤10°C
- Boiling Point: 360°C (decomposes slightly)
- Flash Point: 189°C (Closed Cup)
- Density (25°C): 0.89 g/cm³
- Viscosity (25°C): 20–30 mPa·s
- Flammability: Combustible liquid (H227)

SECTION 10: Stability and Reactivity

- Stable under normal storage/use conditions (≤30°C, sealed); oxidizes slowly in air (darkens color); oxidizes rapidly at >200°C.
- Incompatible with strong oxidizing agents and strong alkalis (saponification to form oleates).
- Hazardous Decomposition Products: Carbon monoxide, acrid organic fumes (oxidation at >200°C); no toxic decomposition products at normal use.

SECTION 11: Toxicological Information

- Oral LD₅₀ (Rat): >5000 mg/kg (low toxicity)
- Dermal LD₅₀ (Rabbit): >5000 mg/kg (low toxicity)
- Skin Irritation: Mild (Rabbit, 4h exposure, reversible; dryness/chapping with prolonged contact)
- Eye Irritation: Moderate (Rabbit, 24h exposure, reversible)
- No mutagenic/carcinogenic/reproductive toxic effects reported; food grade approved for FDA/EU use.

SECTION 12: Ecological Information

- Aquatic Toxicity (Zebrafish LC₅₀): >1000 mg/L (96h)
- Persistence and Degradability: Fully biodegradable (100% degradation in 21 days via microbial action)
- Bioaccumulative Potential: Low (log K_{oc}: 4.0–5.0; no biomagnification)
- Environmental Fate: Degrades to CO₂ and water; no soil/water accumulation.

SECTION 13: Disposal Considerations

- Product Waste: Dispose via licensed waste facilities; or incinerate (controlled temperature, no acrid fumes); recyclable as raw material for biodiesel/surfactants.
- Packaging Waste: Rinse with ethanol/vegetable oil; recycle as plastic waste (non-hazardous).

SECTION 14: Transport Information

- UN Number: Not dangerous goods
- Transport Hazard Class: -



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- Packaging Group: -
- Marine Pollutant: No
- Special Precautions: Avoid open flames, heat sources and collision during transport; keep sealed; ground/bond drums for bulk transfer.

SECTION 15: Regulatory Information

- Complies with GHS, REACH, TSCA, FDA (food grade), EU Cosmetics Regulation (EC 1223/2009).
- Not listed as a hazardous chemical; no EU SVHC classification; food grade complies with GB 1886.250-2021 (China).

SECTION 16: Other Information

- Revision Date: 13 FEB 2026
- Nitrogen-filled packaging extends shelf life by 6–12 months (prevents oxidation).



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