Safety Data Sheet OLEIC ACID

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SECTION 1: Identification

GHS Product identifier

Product name	OLEIC ACID

Other means of identification

Name	Product Code
cis-9-Octadecenoic acid, cis-Octadec-9-enoic acid, 9,10-Octadecenoic acid, (z)-9-Octadecenoic acid, cis-Oleic acid, Elaic acid, Oleinic acid, Elainic acid	
OLEIC ACID TG	OT004
OLEIC ACID LR	OL004

Recommended use of the chemical and restrictions on use

Soap base, manufacture of oleates, ointments, cosmetics, polishing compounds, lubricants and surface coatings, ore flotation, intermediate, food additive and laboratory reagent.

Supplier's details

Name	ChemSupply Australia Pty Ltd
Address	38-50 Bedford Street 5013 Gillman South Australia Australia
Telephone	08 8440 2000
email	www.chemsupply.com.au

Emergency phone number

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

SECTION 2: Hazard identification

Classification of the substance or mixture

GHS classification in accordance with: UN GHS revision 7

Not a hazardous substance or mixture.

GHS label elements, including precautionary statements

Not a hazardous substance or mixture.

Other hazards which do not result in classification

Not a hazardous substance or mixture.

SECTION 3: Composition/information on ingredients

Mixtures

Molecular weight: 282.52

Components

Component	CAS no.	Concentration
Oleic acid (EC no.: 204-007-1)	**112-80-1**	**100 - 100 % (weight)**
CLASSIFICATIONS: No data available. HAZARDS: No data available.		

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice	First Aid Facilities: Maintain eyewash fountain in work area.
If inhaled	If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.
In case of skin contact	Wash with plenty of soap and water. Remove contaminated clothing and wash before re-use. If irritation occurs seek medical advice.
In case of eye contact	Irrigate with copious quantity of water for 15 minutes. Seek medical assistance if symptoms persist.
If swallowed	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.

Most important symptoms/effects, acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of immediate medical attention and special treatment needed, if necessary
Treat symptomatically based on judgement of doctor and individual reactions of the patient.

SECTION 5: Fire-fighting measures

Suitable extinguishing media
Small fire: Use dry chemical, CO2, water spray or foam.
Large fire: Use water spray, fog or foam.
If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities of water until well after the fire is out.
Note: Water spray or foam may cause frothing.

Specific hazards arising from the chemical
Hazards from Combustion Products: Oxides of carbon.

Combustible, this product will burn if exposed to fire. Containers may explode when heated. Runoff may pollute waterways. Fire or heat may produce irritating, poisonous and/or corrosive gases.

Special protective actions for fire-fighters
Wear SCBA and structural firefighter's uniform.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures
Avoid inhalation, contact with skin, eyes and clothing.
Wear protective clothing specified for normal operations (see Section 8)

Methods and materials for containment and cleaning up
Do NOT touch or walk through this product. Stop leak if safe to do so. Prevent entry into waterways, drains, confined areas. Water spray may be used to knock down or divert vapour clouds. Cover with plastic sheet to minimize spreading. Absorb with earth, sand or other non-combustible material and transfer to container.

SECTION 7: Handling and storage

Precautions for safe handling
Avoid prolonged or repeated contact with skin and eyes . Avoid breathing vapour, spray or mists. Avoid generating and inhaling mist.

Conditions for safe storage, including any incompatibilities
Store in a cool, dry, well-ventilated area, out of direct sunlight. Store away from heat and ignition sources. Store away from oxidising materials and strong bases.

Store above 14.5°C.

SECTION 8: Exposure controls/personal protection

Appropriate engineering controls
Provide sufficient ventilation to ensure that the working environment is below the TWA (time weighted average). Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a flame proof exhaust ventilation system is required. Refer to AS 1940-The storage and handling of flammable and combustible liquids and AS 2430-Explosive gas atmospheres for further information concerning ventilation requirements.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection
The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

Skin protection
Hand Protection: Ensure hand protection complies with AS 2161, Occupational protective gloves - Selection, use and maintenance.

Body protection
Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Respiratory protection

Where ventilation is not adequate, respiratory protection may be required. Avoid breathing vapours or mists. Select and use respirators in accordance with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. When mists or vapours exceed the exposure standards then the use of the following is recommended: Approved respirator with organic vapour and dust/mist filters. Filter capacity and respirator type depends on exposure levels.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Liquid
Appearance	Colourless to slightly yellowish liquid. If exposed to air, may develop a yellow to brown colour.
Color	No data available.
Odor	Lardy odour.
Odor threshold	No data available.
Melting point/freezing point	7.5 °C
Boiling point or initial boiling point and boiling range	365 °C (at 760 mmHg)
Flammability	No data available.
Lower and upper explosion limit/flammability limit	No data available.
Flash point	189 °C (Pensky-Martens Closed Cup)
Explosive properties	No data available.
Auto-ignition temperature	363 °C
Decomposition temperature	No data available.
Oxidizing properties	No data available.
pH	No data available.
Kinematic viscosity	No data available.
Solubility	Solubility in Water: Insoluble. Solubility in Organic Solvents: Soluble in alcohol, acetone, benzene, chloroform, ether and most organic solvents, fixed and volatile oils.
Partition coefficient n-octanol/water (log value)	No data available.
Vapor pressure	0.13kPa (at 165°C)
Evaporation rate	No data available.
Density and/or relative density	Specific Gravity: 0.84
Relative vapor density	No data available.
Particle characteristics	No data available.

Supplemental information regarding physical hazard classes
No data available.

Further safety characteristics (supplemental)
Other Information: Refractive Index: 1.459 (20 °C)

SECTION 10: Stability and reactivity

Reactivity
Stable under normal conditions of storage and handling.

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
May react violently on contact with strong oxidising agents with increased risk of fire. May react vigorously on contact with strong bases.

Hazardous Polymerization: Will not occur.

Conditions to avoid
On exposure to air, the material may develop a yellow to brown colour.

Incompatible materials
Oxidising materials, strong bases and powdered aluminium.

Hazardous decomposition products
Oxides of carbon.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity
Acute Toxicity - Oral: LD50 (rat): 25,000 mg/kg.

Ingestion: May cause irritation to mucous membrane of digestive tract. Ingestion of very large amounts may produce nausea and laxative effects.

Inhalation: May cause respiratory tract irritation. Low hazard for usual industrial handling.

Skin corrosion/irritation
Contact with skin causes slight skin irritation, redness, itching and swelling.

Serious eye damage/irritation
Causes slight eye irritation, redness, itching and tearing.

Serious eye damage/irritation: Eye irritation, Draize test (rabbit): 100 mg - mild.

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available.

Carcinogenicity
No data available.

Reproductive toxicity
No data available.

Summary of evaluation of the CMR properties
No data available.

Specific target organ toxicity (STOT) - single exposure
No data available.

Specific target organ toxicity (STOT) - repeated exposure
No data available.

Aspiration hazard
No data available.

Additional information
No data available.

SECTION 12: Ecological information

Toxicity
Information on Ecological Effects: Fish: Fathead Minnow: LC50 = 205 mg/L/96H - Static condition

SECTION 13: Disposal considerations

Disposal methods

Product disposal
Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

Other disposal recommendations
Do not discharge this material into waterways, drains and sewers.

SECTION 14: Transport information

ADG (Road and Rail)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

Australia SUSMP
Poison Schedule: NS

SECTION 16: Other information

Further information/disclaimer
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Standard for the Uniform Scheduling of Medicines and Poisons, Commonwealth of Australia
National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'
Safe Work Australia, 'National Code of Practice fot the Preparation of Safety Data Sheets for Hazardous Chemicals', July 2020.
Safe Work Australia, 'National Guide for Classifying Hazardous Chemicals', July 2020.
Safe Work Australia, Workplace Exposure Standards for Airbourne Contaminants, December 2019
Safe Work Australia, Hazardous Chemical Information System (HCIS), hcis.safeworkaustralia.gov.au
IATA, Dangerous Goods Regulations (DGR)
IMO, International Maritime Dangerous Goods Code (IMDG)