



SAFETY DATA SHEET

Preparation Date: 10/23/2015 Revision Date: 10/23/2015 Revision Number: G1

1. IDENTIFICATION

Product identifier

Product code: L1106

Product Name: LINOLEIC ACID, HIGH PURITY

Other means of identification

Synonyms: Leinoleic acid

9,12-Linoleic acid

cis,cis-9,12-Octadecadienoic acid cis-9,cis-12-Octadecadienoic acid 9,12-Octadecadienoic acid

Telfairic acid

CAS #: 60-33-3
RTECS # RF9990000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Vitamin. Coatings. Paints. Emulsifiers.

Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp

14422 South San Pedro St. Gardena. CA 90248

(310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone numberChemtrec 1-800-424-9300Contact Person:Martin LaBenz (West Coast)Contact Person:Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

Not classified		

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Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Not available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %	Trade Secret
Linoleic Acid	60-33-3	100	*
60-33-3			

4. FIRST AID MEASURES

First aid measures

General Advice: Poison information centers in each State capital city can provide additional

assistance for scheduled poisons (13 1126)

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes. Get medical attention if irritation develops. Consult a physician if necessary.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms

persist, call a physician.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms Health injuries are not known or expected under normal use. May cause eye/skin irritation.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Carbon dioxide (CO2). Dry chemical. Water spray mist or

foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon oxides

Specific hazards: May be combustible at high temperatures

May be ignited by heat, sparks or flames

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Special Protective Actions for Firefighters

Specific Methods: No information available.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Do not touch damaged containers or spilled material unless

wearing appropriate protective clothing. Avoid contact with skin, eyes and clothing. Use

personal protective equipment. Remove all sources of ignition.

Environmental precautions Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up

Methods for containmentStop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite,

dry sand or earth).

Methods for cleaning up

Use appropriate tools to put the spilled material in a suitable chemical waste disposal

container. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not ingest. Do not breathe vapors or spray mist. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep refrigerated. Store at 2-8 deg. C. Store away from incompatible materials.

Incompatible Materials:

Oxidizing agents. Reducing agents. Bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
Linoleic Acid	None	None	None	None
60-33-3				

Canada

Components Alberta British Columbia Ontario Quebec
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Linoleic Acid	None	None	None	None
60-33-3				

Australia and Mexico

Components	Australia	Mexico
Linoleic Acid	None	None
60-33-3		

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation. Provide exhaust ventilation or

other engineering controls to keep the airborne

concentrations of vapors and mist below their respective

threshold limit value.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

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Eye protection: Goggles. or. Safety glasses with side-shields.

Skin and body protection: Chemical resistant apron. Gloves. Long sleeved clothing.

Respiratory protection: Respiratory protection is not necessary for normal handling. Good room ventilation

or use of local exhaust (fume hood) is sufficient. Use a vapor respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapor, inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an

approved/certified respirator or equivalent.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and

immediately after handling the product. When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Product name: LINOLEIC ACID, HIGH

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance:

Liquid. Oily. Colorless. Straw-colored.

Odor: **Taste** Molecular/Formula weight:

No information available No information available 280.46

Formula: Flammability: Flashpoint (°C/°F): C18-H32-02 No information available >110 °C/>230 °F

Flash point (°C): Flash Point Tested according to: **Autoignition Temperature (°C/°F):**

No information available >110 Not available

Lower Explosion Limit (%): Upper Explosion Limit (%): pH:

No information available No information available No information available

Melting point/range(°C/°F): Boiling point/range(°C/°F): Decomposition temperature(°C/°F):

-12 to -5 °C/10.4-23 °F 229-230 °C/444.2-446 F @ 16 mm Hg

202 °C/395.6 °F @ 1.4 mm Hg

Bulk density: Specific gravity: Density (g/cm3): 0.9022-0.91 @20 °C

No information available No information available

Vapor pressure @ 20°C (kPa): **Evaporation rate:** Vapor density:

No information available No information available No information available

Partition coefficient VOC content (g/L): Odor threshold (ppm): No information available No information available (n-octanol/water):

7.05

Miscibility: Viscosity: Solubility:

No information available Miscible with Dimethylformamide Freely soluble in Ether

Miscible with fat solvents Soluble in absolute alcohol. Very soluble in Acetone

Solubility in Acetone: 4.10 g/100 g @ -

50 °C; 1.20 g/100 g @ -60 °C; .35

g/100 g @ -70 °C Very soluble in Benzene Very soluble in Ethanol Very soluble in Ether

No information available

Practically insoluble in water

Solubility in Water: 1.59 mg/L @ 25 °C

10. STABILITY AND REACTIVITY

Reactivity

Reactive with oxidizing agents, reducing agents, and bases

Chemical stability

Stability: Stable under recommended storage conditions

Hazardous polymerization does not occur **Possibility of Hazardous Reactions:**

Conditions to avoid: Incompatible materials.

Oxidizing agents. Reducing agents. Bases. **Incompatible Materials:**

Hazardous decomposition products: No information available

Other Information

No information available **Corrosivity:**

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Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Ingestion.

Acute Toxicity

Component Information

Linoleic Acid - 60-33-3

LD50/oral/rat = No information available

LD50/oral/mouse = > 50 g/kg Oral LD50 Mouse

LD50/dermal/rat = No information available

LD50/dermal/rabbit = No information available

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No infomation available

Other LD50 or LC50information = No information available

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = No information available

LD50/oral/mouse =

Value - Acute Tox Oral = >50000mg/kg

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available

VALUE-Gas = No information available

VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: May cause skin irritation. It may cause mild skin irritation.

Eye Contact: May cause eye irritation. May cause slight or mild eye irritation.

Inhalation May cause respiratory tract irritation.

Ingestion Health injuries are not known or expected under normal use.

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Aspiration hazardNo information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity No information available

Sensitization: No information available

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic

Components	IARC	ACGIH -	NTP	OSHA HCS -	Australia - Prohibited	Australia - Notifiable
-		Carcinogens		Carcinogens	Carcinogenic	Carcinogenic
				_	Substances	Substances
Linoleic Acid	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

Reproductive toxicity

No data is available

Reproductive Effects:

Developmental Effects:

Teratogenic Effects:

No information available
No information available
No information available

Specific Target Organ Toxicity

STOT - single exposure
STOT - repeated exposure
Target Organs:

No information available
No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available

Mobility: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

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Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series	RCRA - U Series Wastes
	Wastes	Wasies	Wastes	
_inoleic Acid	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
No information available
No information available

Packing Group: None

ERG No: No information available

Marine Pollutant No data available

DOT RQ (lbs): No information available

TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

ADR

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Packing Group:
Subsidiary Risk:
Classification Code:
Description:
No information available

IMO / IMDG

UN-No: Not Regulated

Proper Shipping Name: No information available **Hazard Class:** No information available No information available **Subsidiary Risk: Packing Group:** No information available **Description:** No information available IMDG Page: No information available **Marine Pollutant** No information available MFAG: No information available **Maximum Quantity:** No information available

RID

Product code: L1106

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Classification Code:
Description:
No information available

14. TRANSPORT INFORMATION

ICAO

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

IATA

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

15. REGULATORY INFORMATION

International Inventories

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Linoleic Acid	Present	Present KE- 26285	Present	Present (2)- 609	Present	Present	Present 200-470-9

U.S. Regulations

Linoleic Acid

FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 184.1065

FDA - 21 CFR - Total Food Additives 184.1065

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen	Developmental Toxicity		Female Reproductive Toxicity:
Linoleic Acid	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components		•	Section 302 Extremely		Section 313 - Reporting
	Substances and their	Hazardous	Hazardous	Chemical Category	de minimis
	Reportable Quantities	Substances and TPQs	Substances and RQs		
Linoleic Acid	None	None	None	None	None

U.S. TSCA

•	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Linoleic Acid	Not Applicable	Not Applicable

Canada

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WHMIS hazard class:

Non-controlled

Linoleic Acid

Uncontrolled product according to WHMIS classification criteria

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Components	WHMIS Ingredient Disclosure List -
Linoleic Acid	1 %

Inventory

Components	Canada (DSL)	Canada (NDSL)
Linoleic Acid	Present	Not Listed

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Mandito Reporting	
Linoleic Acid	Not listed	Not listed	

EU Classification

R-phrase(s)

not determined (not applicable)

S -phrase(s)

none

Components	Classification	Concentration Limits:	Safety Phrases
Linoleic Acid		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

None.

16. OTHER INFORMATION

Product code: L1106

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16. OTHER INFORMATION

Preparation Date:10/23/2015Revision Date:10/23/2015Prepared by:Sonia Owen

Disclaimer: All chemic

Product code: L1106

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet

Product name: LINOLEIC ACID, HIGH