

# Scientific Documentation

## Oleic Acid, Food Grade

Not appropriate for regulatory submission.

Please visit [www.spectrumchemical.com](http://www.spectrumchemical.com) or contact Tech Services for the most up-to-date information contained in this information package.

Spectrum Chemical Mfg Corp  
769 Jersey Avenue  
New Brunswick, NJ 08901  
Phone 732.214.1300



## **Table of Contents**

Product Specification  
Certificate of Analysis  
Safety Data Sheet (SDS)  
Certification of Current Good Manufacturing Practices (cGMP)  
Manufacturing Process Flowchart  
Technical Statements  
General Label Information – Sample Label  
Kosher Certification

## Specification for Oleic Acid, Food Grade (O1500)

Item Number	O1500
Item	Oleic Acid, Food Grade
CAS Number	112-80-1
Molecular Formula	C <sub>18</sub> H <sub>34</sub> O <sub>2</sub>
Molecular Weight	282.46
MDL Number	
Synonyms	(Z)-9-Octadecenoic Acid

Test	Specification	
	Min	Max
APPEARANCE		
IDENTIFICATION	TO PASS TEST	
ACID VALUE	196	210
IODINE VALUE	83	100
SAPONIFICATION VALUE	196	204
COMPOSITION OF FATTY ACIDS CARBON CHAIN LENGTH:		
<C18		15 %
C18		2.5 %
C18:1 (1 double bond)	70 %	
C18:2 (2 double bond)		18 %
C18:3 (3 double bond)		1.0 %
C20		0.5 %
COLOR		2
TITER		7.5°C
HEAVY METALS (as Pb)		10 ppm
ASH		0.01 %
WATER		0.2 %
UNSAPONIFIABLE MATTER		0.5 %
CERTIFIED KOSHER		
CERTIFIED HALAL		

Test	Specification	
	Min	Max
EXPIRATION DATE		
DATE OF MANUFACTURE		

***Spectrum Chemical Mfg Corp***

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<i><b>Corporate Headquarters:</b></i>	<i><b>West Coast Facility:</b></i>
769 Jersey Ave.	14422 S. San Pedro St.
New Brunswick, NJ 08901	Gardena, CA 90248
732.214.1300	310.516.8000

## Certificate Of Analysis

Item Number	O1500	Lot Number	2NA0227
Item	Oleic Acid, Food Grade	CAS Number	112-80-1
Molecular Formula	C <sub>18</sub> H <sub>34</sub> O <sub>2</sub>	Molecular Weight	282.46

TEST	SPECIFICATION		RESULT
	MIN	MAX	
APPEARANCE			CLEAR COLORLESS LIQUID
IDENTIFICATION	TO PASS TEST		PASSES TEST
ACID VALUE	196	210	201
IODINE VALUE	83	100	91.0
SAPONIFICATION VALUE	196	204	203
COMPOSITION OF FATTY ACIDS CARBON CHAIN LENGTH:			.
<C18		15 %	0.01 %
C18		2.5 %	0.01 %
C18:1 (1 double bond)	70 %		79.5 %
C18:2 (2 double bond)		18 %	9.41 %
C18:3 (3 double bond)		1.0 %	0.02 %
C20		0.5 %	0.19 %
COLOR		2	0.7
TITER		7.5°C	7.0 °C
HEAVY METALS (as Pb)		10 ppm	< 2 ppm
ASH		0.01 %	< 0.01 %
WATER		0.2 %	0.0%
UNSAPONIFIABLE MATTER		0.5 %	0.2 %
CERTIFIED KOSHER			CERTIFIED KOSHER
CERTIFIED HALAL			CERTIFIED HALAL
EXPIRATION DATE			14-JUL-2025
DATE OF MANUFACTURE			15-JUL-2023

Certificate of Analysis Results Entered By:

CMARIN  
Catherine Marin  
12-MAR-24 05:39:57

Certificate of Analysis Results Approved By:

AWILLIAMS  
Allison Williams  
12-MAR-24 12:04:22

Spectrum Chemical Mfg Corp  
755 Jersey Avenue  
New Brunswick 08901 NJ



**All pharmaceutical ingredients are tested using current edition of applicable pharmacopeia.**

**Read and understand label and SDS before handling any chemicals. All Spectrum's chemicals are for manufacturing, processing, repacking or research purposes by experienced personnel only. It is the customer's responsibility to provide adequate hazardous material training and ensure that appropriate Personal Protective Equipment (PPE) is used before handling any chemical.**

The Elemental Impurities standards implemented by USP and other Pharmaceutical Compendia reflect a growing understanding of the toxicology of trace levels of elemental impurities that can remain in drug substances originating from either raw materials or manufacturing processes. Identifying and quantifying impurities can be critical to predicting the best possible patient outcomes. Elemental Impurities has been a requirement of all products meeting USP/NF, EP and BP monographs since January 1, 2018. More information can be found in USP sections <232> Elemental Impurities – Limits and <233> Elemental Impurities – Procedures. Data for drug substances furnished by Spectrum Chemical Mfg. Corp can be used to ensure that patient daily exposures by oral administration to the selected elements are not exceeded in the formulation of pharmaceutical products.



## SAFETY DATA SHEET

Preparation Date: 03/11/2016

Revision date 11/27/2018

Revision Number: G2

### 1. Identification

#### Product identifier

**Product code:** O1500  
**Product Name:** Oleic Acid, Food Grade

#### Other means of identification

**Synonyms:** Oleinic acid  
cis-9-Octadecenoic acid  
cis-delta(sup 9)-Octadecenoic acid  
**CAS #:** 112-80-1  
**RTECS #** RG2275000  
**CI#:** Not available

#### Recommended use of the chemical and restrictions on use

**Recommended use:** No information available.  
**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 number** Chemtrec 1-800-424-9300  
**Contact Person:** Martin LaBenz (West Coast)  
**Contact Person:** Ibad Tirmiz (East Coast)

### 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2B

#### Label elements

##### **Warning**

**Hazard statements**  
Causes skin irritation  
Causes eye irritation

**Hazards not otherwise classified (HNOC)**

Not Applicable

**Other hazards**

Not available

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves

**Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash it before reuse

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Formula:	CAS No	Weight-%
Oleic Acid	112-80-1	100

**4. FIRST AID MEASURES****First aid measures****General Advice:**

National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.

**Skin Contact:**

Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention if irritation develops.

**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**

Causes skin irritation  
Moderately irritating to the skin  
Causes eye irritation  
Mild eye irritation  
May cause digestive (gastrointestinal) tract 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 (CO<sub>2</sub>). Dry chemical. Water spray mist or foam.

**Unsuitable Extinguishing Media:** No information available.

**Specific hazards arising from the chemical**

**Hazardous combustion products** Carbon Monoxide, Carbon Dioxide.

**Specific hazards:** May be combustible at high temperatures. May be ignited by heat, sparks or flames. Container explosion may occur under fire conditions or when heated.

**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. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. 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 containment** Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite, dry sand or earth). In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.

**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. Do not ingest. Do not breathe vapors or spray mist. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities****Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials. Sensitive to light. Store in light-resistant containers. Protect from light. Air sensitive.

**Incompatible Materials:**

Strong oxidizing agents

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters****National occupational exposure limits****United States**

Formula:	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Oleic Acid	112-80-1	None	None	None	None

**Canada**

Formula:	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Oleic Acid	112-80-1	None	None	None	None

**Australia and Mexico**

Formula:	CAS No	Australia	Mexico
Oleic Acid	112-80-1	None	None

**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**

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

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

**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

**Physical state:**

Liquid

**Appearance:**

Oily.

**Color:**

Colorless. Yellowish.

**Odor:**

Lard-like.

**Taste**

Lard-like.

**Formula:**

C18H34O2

**Molecular/Formula weight (g/mole):**

282.47

**Flammability (solid, gas)**

no data available

**Flashpoint (°C/°F):**

189 °C/337 °F

199-218 °C/390-425 °F

**Flash Point Tested according to:**

Closed cup

Open cup

**Autoignition Temperature (°C/°F):**

363 °C/685 °F

**Lower Explosion Limit (%):**

No information available

**Upper Explosion Limit (%):**

No information available

**Melting point/range(°C/°F):**

11-16.3 °C/52-61.3 °F

**Decomposition temperature(°C/°F):**

No information available

**Boiling point/range(°C/°F):**

286.1°C/547 °F @ 100 mm Hg

**Bulk density:**

No information available

**Density (g/cm3):**

No information available

**Specific gravity:**

0.895 @ 25 deg. C

**pH**

No information available

**Vapor pressure @ 20°C (kPa):**

No information available

**Evaporation rate:**

No information available

**Vapor density:**

9.74

**VOC content (g/L):**

No information available

**Odor threshold (ppm):**

No information available

**Partition coefficient**

**(n-octanol/water):**

7.64

**Viscosity:**

No information available

**Miscibility:**

Miscible with Ethanol

Miscible with Ether

Miscible with Chloroform

Miscible with Acetone

Miscible with Carbon tetrachloride

Miscible with Methanol

**Solubility:**

Practically insoluble in water

Soluble in Ether

Soluble in Chloroform

Soluble in Benzene

Soluble in Acetone

Soluble in Alcohol

## 10. STABILITY AND REACTIVITY

**Reactivity**

Reactive with strong oxidizing agents

**Chemical stability**

**Stability:**

Stable under recommended storage conditions.

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

**Conditions to avoid:**

Heat. Ignition sources. Incompatible materials.

**Incompatible Materials:**

Strong oxidizing agents

**Product code:** O1500

**Product name:** Oleic Acid, Food  
Grade

**Page**

**Hazardous decomposition products:**

When heated to decomposition it emits acrid smoke and irritating fumes. Carbon monoxide. Carbon dioxide.

**Other Information**

**Corrosivity:**

No information available

**Special Remarks on Corrosivity:** No information available

**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

**Principal Routes of Exposure:**

Skin. Ingestion. Eyes.

**Acute Toxicity**

**Component Information**

Oleic Acid	
CAS No	112-80-1

**LD50/oral/rat** = 25 g/kg Oral LD50 Rat

**LD50/oral/mouse** = 28000 mg/kg

**LD50/dermal/rabbit** = No information available

**LD50/dermal/rat** = No information available

**LC50/inhalation/rat** = No information available

**LC50/inhalation/mouse** = No information available

**Other LD50 or LC50 information** = No information available

**Product Information**

**LD50/oral/rat =**

**Value** 25000 mg/kg

**LD50/oral/mouse =**

**Value - Acute Tox Oral** = 28000 mg/kg

**LD50/dermal/rabbit**

**Value** 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**

**Product code:** O1500

**Product name:** Oleic Acid, Food  
Grade

**Page**

**Skin Contact:** Mildly to moderately irritating to the skin.

**Eye Contact:** Contact with eyes may cause irritation. Mild eye irritation. Symptoms may include stinging, tearing, redness.

**Inhalation** May cause irritation of respiratory tract. This material has a very low vapor pressure. Not expected to be an inhalation hazard for normal handling. If the product is misted or heated, the inhalation of mist or vapor can cause respiratory tract irritation.

**Ingestion** May cause digestive (gastrointestinal) tract irritation.

**Aspiration hazard** No 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:** Cytogenetic analysis (Hamster fibroblast)

**Carcinogenic effects:** Not considered carcinogenic.

Formula:	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Oleic Acid	112-80-1	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

*ACGIH (American Conference of Governmental Industrial Hygienists)*

*IARC (International Agency for Research on Cancer)*

*NTP (National Toxicology Program)*

*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

**Reproductive toxicity** No data is available

**Reproductive Effects:** No information available  
**Developmental Effects:** No information available  
**Teratogenic Effects:** No information available

**Specific Target Organ Toxicity**

**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Target Organs:** No information available.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

**Ecotoxicity effects:** Aquatic environment.

*Oleic Acid - 112-80-1*

**Fish** LC50: =205mg/L (96h, Pimephales promelas)

**Persistence and degradability:** No information available

**Bioaccumulative potential:** No information available.

**Mobility in soil** No information available

**Other adverse effects** 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

Formula:	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Oleic Acid	112-80-1	None	None	None	None

### 14. TRANSPORT INFORMATION

#### **DOT**

**UN-No:** Not Regulated

**Proper Shipping Name:** No information available

**Hazard Class** No information available

**Subsidiary Class** No information available

**Packing group:** No information available

**Emergency Response Guide Number** No information available

**Marine Pollutant** No data available

**DOT RQ (lbs):** No information available

**Special Provisions** No Information available

**Symbol(s):** No information available

**Description:** No information available

#### **TDG (Canada)**

**UN-No:** Not Regulated

**Proper Shipping Name:** No information available

**Hazard Class** No information available

**Subsidiary Risk:** No information available

**Packing Group:** No information available

**Marine Pollutant** No Information available

**Description:** No information available

#### **ADR**

**UN Number** -

**Proper Shipping Name:** No information available

**Transport hazard class(es)** No information available

**Packing group** No information available

**Subsidiary Risk:** No information available

#### **IMDG**

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available  
**Marine Pollutant** No information available

#### RID

**UN Number** Not Regulated  
**Proper Shipping Name:** No information available  
**Transport hazard class(es)** No information available  
**Subsidiary Risk:** No information available  
**Packing group** No information available

#### ICAO (air)

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available

#### IATA

**UN Number** Not Regulated  
**Proper Shipping Name:** No information available  
**Transport hazard class(es)** No information available  
**Subsidiary Risk:** No information available  
**Packing group** No information available  
**Precautionary Statements - Response** IF exposed or concerned  
**Special Provisions** No information available

### 15. REGULATORY INFORMATION

#### International Inventories

Formula:	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia AICS	EINECS-No.
<i>Oleic Acid</i>	112-80-1	PresentACTIVE	Present KE-26450	Present	Present (2)-975,(2)-609	Present	Present	Present 204-007-1

#### U.S. Regulations

##### *Oleic Acid*

**Pennsylvania RTK:** Present

**FDA - Food Additives Generally Recognized as Safe (GRAS):** 21 CFR 182.70, 21 CFR 182.90

**FDA - Direct Food Additives** 21 CFR 172.210, 21 CFR 172.860, 21 CFR 172.862, 21 CFR 173.315, 21 CFR 173.340 (from tall oil fatty acids)

**FDA - 21 CFR - Total Food Additives** 172.210, 172.860, 172.862, 173.315, 173.340, 175.105, 176.180, 177.1200, 177.2600, - List Sourced from EAFUS 182.70, 182.90 (from tall oil fatty acids)

#### 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)

Formula:	CAS No	Carcinogen	Developmental Toxicity	Male	Female
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**Product code:** O1500

**Product name:** Oleic Acid, Food Grade

**Page**

				<b>Reproductive Toxicity</b>	<b>Reproductive Toxicity:</b>
Oleic Acid	112-80-1	Not Listed	Not Listed	Not Listed	Not Listed

#### CERCLA/SARA

Formula:	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Oleic Acid	112-80-1	None	None	None	None	None

#### U.S. TSCA

Formula:	CAS No	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Oleic Acid	112-80-1	Not Applicable	Not Applicable

#### Canada

##### WHMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information: Not a dangerous product according to HPR classification criteria.

Component WHMIS 2015 Hazard Classification  
Oleic Acid Not a dangerous product according to HPR classification criteria  
112-80-1 ( 100 )

**Canada Hazardous Products Regulation** This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

Formula:	WHMIS Ingredient Disclosure List -
Oleic Acid	1 %

#### DSL/NDSL

Formula:	CAS No	Canada (DSL)	Canada (NDSL)
Oleic Acid	112-80-1	Present	Not Listed

Formula:	CAS No	CEPA Schedule I - Toxic Substances
Oleic Acid	112-80-1	Not listed
Formula:	CAS No	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Oleic Acid	112-80-1	Not listed

#### EU Classification

##### EU GHS - SV - CLP 1272/2008

Formula:	CAS No	EU GHS - SV - CLP (1272/2008)
Oleic Acid	112-80-1	

##### EU - CLP (1272/2008)

#### R-phrases(s)

R38 - Irritating to skin

**Product code:** O1500

**Product name:** Oleic Acid, Food Grade

**Page**



**S -phrase(s)**

S37 - Wear suitable gloves

Formula:	CAS No	Classification	Concentration Limits:	Safety Phrases
Oleic Acid	112-80-1		No information	

**The product is classified in accordance with Annex VI to Directive 67/548/EEC****Indication of danger:**

Xi - Irritant

**Xi****16. OTHER INFORMATION**

**Preparation Date:** 03/11/2016  
**Revision date** 11/27/2018  
**Prepared by:** Sonia Owen

**Disclaimer:**

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**



**Certification of Compliance with current Good Manufacturing Practices**

Dear Valued Customer:

Spectrum Chemical Mfg Corp certifies that the following product(s) is produced, processed, packaged and held in compliance with current Good Manufacturing Practices (cGMP) in accordance with the applicable parts of 21 CFR, parts 210 and 211 of the Code of Federal Regulations.

Catalog Number	Product Name
O1500	Oleic Acid, Food Grade

Spectrum is an FDA registered and inspected Drug Establishment. Our United States Food and Drug Administration (USFDA) Registration numbers are as follows:

Spectrum-Gardena, CA: 2020632  
Spectrum-New Brunswick, NJ: 2246824

Thank you for your interest in Spectrum products. If we may be of further assistance, please feel free to contact the Quality Assurance department at 310-516-8000 or via email at [qualityassurance@spectrumchemical.com](mailto:qualityassurance@spectrumchemical.com)

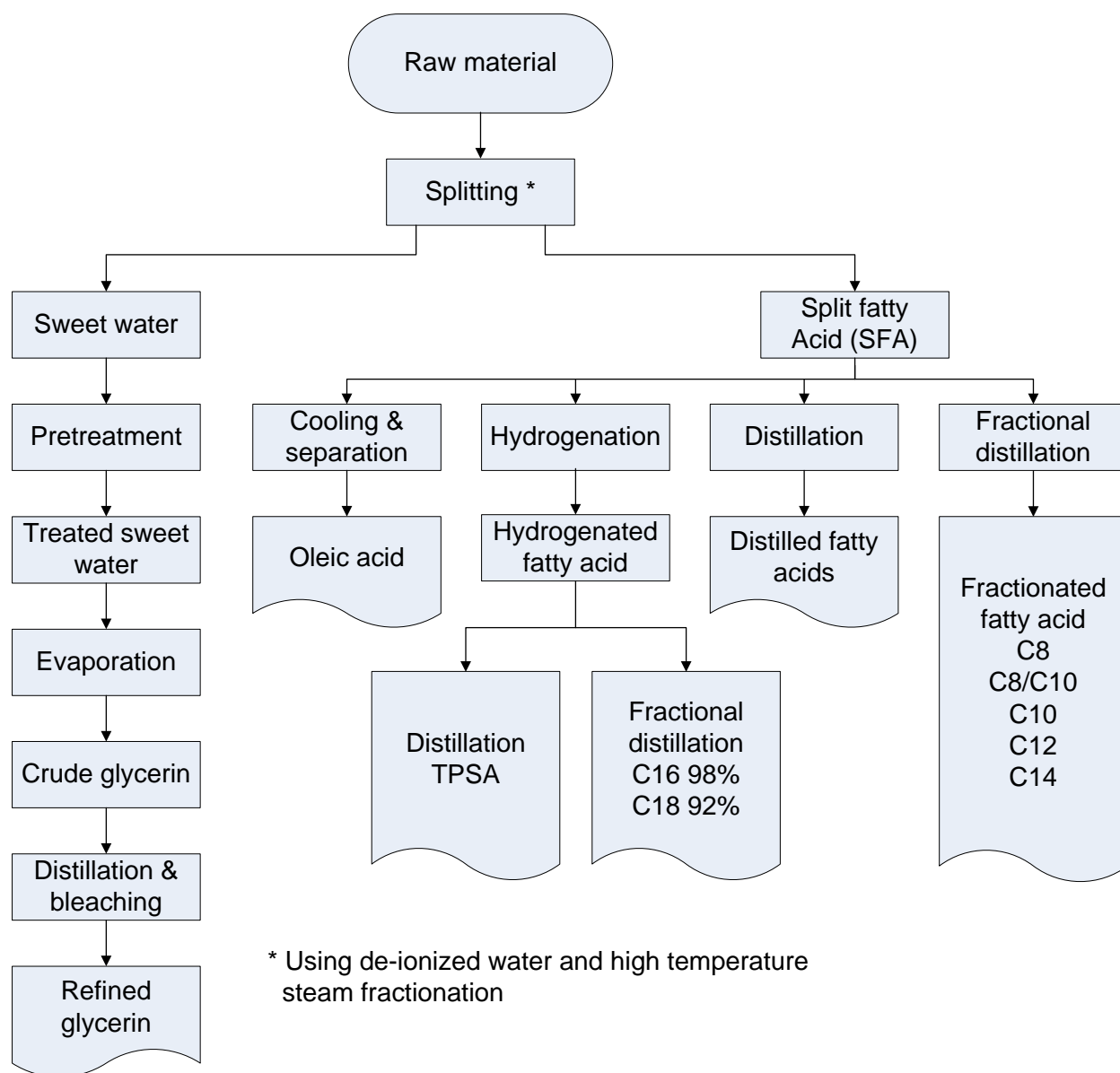
Sincerely,

A handwritten signature in black ink, appearing to read "Oralia Chavez", written in a cursive style.

Oralia Chavez  
Quality Assurance Specialist

## Manufacturing Process Flowchart

### Oleic Acid, Food Grade - O1500



#### ***Spectrum Chemical Mfg Corp***

##### **Corporate Headquarters:**

769 Jersey Ave.  
New Brunswick, NJ 08901  
732.214.1300

##### **West Coast Facility:**

14422 S. San Pedro St.  
Gardena, CA 90248  
310.516.8000

## O1500, Oleic Acid, Food Grade

### Source Statement

The above mentioned catalog item is manufactured from plant origin (palm oil and palm kernel oil). No animal derived products are used in the manufacturing process.

### BSE/TSE Statement

The above mentioned catalog item does not contain nor is manufactured using any animal derived products and is therefore, BSE/TSE free.

### Allergen Statement

The above mentioned catalog item does not contain any of the following:

- Milk
- Egg
- Fish
- Shellfish
- Tree Nuts
- Wheat
- Peanuts
- Soy
- Cereals containing Gluten
- Celery
- Mustard
- Sesame Seed
- Corn
- Latex
- Sulfites > 10 ppm

### EU Fragrance Allergen Statement

The above mentioned catalog item does not contain any of the 26 EU fragrance allergens listed in Annex III lines 67-92. These substances are not intentionally added to the following chemical and therefore are not expected to be present.

### GMO Statement

The above mentioned catalog item is manufactured without the use of genetically modified organisms and is therefore GMO free.

### Melamine Statement

The above mentioned catalog does not use or add melamine to the manufacturing process and is considered melamine-free.

## Nitrosamine Statement

Based on knowledge of the manufacturing process, nitrosamine impurities are not known or suspected to be present in this material.

## Animal Testing Statement

The above mentioned catalog item has not been tested on animals.

## Organic Compliance Statement

The above mentioned catalog item has not been produced using GMOs, irradiation, ethylene oxide (EtO) or sewage sludge.

## Shelf Life Statement

The above mentioned catalog item is typically assigned a shelf life of 24 months from the date of manufacture. The actual assigned shelf life for any specific lot should be referenced on the Certificate of Analysis.

## Other Chemicals Statement

Spectrum does not have any reason to suspect the above mentioned catalog item contains any of the following chemicals. This product does not come into contact with these chemicals during packaging or storage:

- |                     |                 |
|---------------------|-----------------|
| • Aflatoxins        | • Parabens      |
| • Antibiotics       | • Pesticides    |
| • Bisphenol A (BPA) | • Phthalates    |
| • CMR Substances    | • Preservatives |

## Label Information

The Spectrum label presents technical and safety information in an easily understood format. Our technical specialists stay abreast of the latest requirements of the Globally Harmonized System for Classification and Labelling of Chemicals (GHS), as well as the Occupational Safety and Health Administration (OSHA), the Food and Drug Administration (FDA) and other government regulatory agencies in order to ensure compliance, accuracy and concise hazard communication. Below you will find a typical label example for this catalog item.

o1500 12/27/2018 gm

**WARNING**

- Causes skin and eye irritation.
- Wear protective gloves • Wash face, hands and any exposed skin thoroughly after handling.

**FIRST AID:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention.

**KEEP FROM CHILDREN**



**01500**

**SIZ SY**

**Oleic Acid**

**[(Z)-9-Octadecenoic Acid]**

**Food Grade**

**CAS 112-80-1**

**C<sub>18</sub>H<sub>34</sub>O<sub>2</sub>**

**F.W. 282.46**

Acid Value	196-210
Iodine Value	83-100
Saponification Value	196-204
Composition of Fatty Acids:	
Carbon Chain Length	Value
<C18	Max. 15%
C18	Max. 2.5%
C18:1 (1 double bond)	Min. 70%
C18:2 (2 double bonds)	Max. 18%
C18:3 (3 double bonds)	Max. 1.0%
C20	Max. 0.5%
MAXIMUM LIMITS	
Color	2
Titer	7.5°C
Heavy Metals (as Pb)	10 ppm
Ash	0.01%
Water	0.2%
Unsaponifiable Matter	0.5%

LIGHT SENSITIVE, AIR SENSITIVE: Preserve in well-closed light-resistant containers. Avoid exposure to excessive heat.

**WARNING:** Cancer and Reproductive Harm-  
www.P65Warnings.ca.gov

G 3/H11GHS      ?      Lot No. XQ####

**CAUTION:** For manufacturing, processing or repacking.  
**Read and understand the label and Safety Data Sheet (SDS) prior to use.**

**Chemical Emergency: (800)424-9300**

[www.SpectrumChemical.com](http://www.SpectrumChemical.com)




### Spectrum Chemical Mfg Corp

#### Corporate Headquarters:

769 Jersey Ave.  
New Brunswick, NJ 08901  
732.214.1300

#### West Coast Facility:

14422 S. San Pedro St.  
Gardena, CA 90248  
310.516.8000



KOSHER SUPERVISION OF AMERICA

בס"ד  
Jan 19, 2024

The following product(s) prepared by the named company are certified kosher with the stated requirements:

**Spectrum Laboratory Products, Inc.**

S-0032

14422 South San Pedro Street,  
Gardena, CA 90248  
755-769 Jersey Ave.  
New Brunswick NJ 08901  
USA

**Product Name** O1500, Oleic Acid, Food Grade

**Brand** Spectrum

**UKD-ID** KSAV3-J1H6U46

**D/P/M** P

**Symbol Required** KSA

**Special Conditions**

This certificate expires on  
**Feb 01, 2025**

Rabbi Binyomin Lisbon  
Kashrus Administrator

Placing the KSA logo on products not listed above constitutes an un-authorized use of the KSA symbol, which is a federally registered trademark.