



Safety Data Sheet

Issuing Date 30-Mar-2018

Revision Date 30-Mar-2018

Revision Number 3

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name VOLEIC™ OA06 Oleic Acid

Other means of identification

Product Code OA06

Recommended use of the chemical and restrictions on use

Recommended Use Commercial product.

Details of the supplier of the safety data sheet

Manufacturer Address Vantage Oleochemicals, Inc.
4650 South Racine Avenue
Chicago, IL 60609 USA
+1-773-376-9000

Emergency Telephone Number

Company Phone Number +1-773-376-9000

Emergency Telephone Number CHEMTREC International: +1-703-527-3887

2. HAZARDS IDENTIFICATION

Classification

This chemical is not hazardous by the 2012 OSHA Hazard Communication Standard.

This is not a dangerous substance or mixture according to the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Label Elements

EMERGENCY OVERVIEW

Not Hazardous

Color Light yellow

Physical State Liquid

Odor Faint

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Oleic acid	112-80-1	60-100

4. FIRST AID MEASURES

FIRST AID MEASURES

Eye contact	Consult a physician. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Skin contact	Wash exposed skin with soap and plenty of water. Consult a physician if irritation occurs.
Inhalation	Remove to fresh air and keep at rest in a position comfortable for breathing. Consult a physician if breathing is difficult or other respiratory symptoms develop.
Ingestion	Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person.
<u>Most important symptoms and effects, both acute and delayed</u>	
Symptoms	
<u>Indication of any immediate medical attention and special treatment needed</u>	
Notes to Physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

<u>Suitable extinguishing media</u>	Dry powder, Alcohol foam, Carbon dioxide, Water fog.
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.
<u>Explosion Data</u>	
Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.
<u>Protective equipment and precautions for firefighters</u>	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 Use personal protective equipment.

Environmental precautions

Environmental precautions Prevent release to surface water.

Methods and material for containment and cleaning up

Methods for Containment Dike to collect large liquid spills.

Methods for Cleaning Up Absorb with an inert material.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid generation of mist/aerosol.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a cool, well-ventilated place.

Packaging Materials Store tightly closed in original container.

Incompatible materials Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering Measures Safety Shower
Eyewash station
Ventilation system.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses with side-shields.
Skin and Body Protection Impervious gloves.
Respiratory Protection Use NIOSH/MSHA approved respirator if ventilation is not sufficient to control mist/aerosol.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	Odor	Faint
Appearance	Clear	Odor threshold	Not determined
Color	Light yellow		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH		Not Applicable
Melting point / freezing point	< 10 °C / < 50 °F	Cloud point
Boiling point / boiling range	220 °C / 428 °F	@10 hPa
Flash Point	180 °C / 356 °F	Open cup
Evaporation Rate		Not determined
Flammability (solid, gas)		May burn if exposed to open flame.
Flammability Limit in Air		Not determined
Upper flammability limit		
Lower Flammability Limit		
Vapor pressure	0.000106	hPa at (20 °C)
Vapor Density		Not determined
Specific Gravity	-	Not determined
Water Solubility	Insoluble	
Solubility in other solvents		Soluble in many organic solvents
Partition coefficient	3	Estimated
Autoignition Temperature	350 °C / 662 °F	
Decomposition temperature		Not determined
Kinematic viscosity		Not determined
Dynamic viscosity	25 mPa s	@ 25 °C
Explosive Properties	None	
Oxidizing Properties	None	

Other Information

Density 0.9 g/ml @ 20°C

10. STABILITY AND REACTIVITY

Reactivity Not reactive

Chemical stability Stable under recommended storage conditions.

Possibility of Hazardous Reactions

Hazardous Reactions None under normal processing.
Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid Extremes of temperature and direct sunlight

Incompatible materials Strong oxidizing agents.

Hazardous Decomposition Products

None identified.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information Product does not present an acute toxicity hazard based on known or supplied information

Inhalation There is no data for this product.

Eye contact Not irritating to eyes.

Skin contact Not irritating to skin.

Ingestion No known hazard by swallowing.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Oleic acid 112-80-1	> 2000 mg/kg (Rat)	-	-

Information on toxicological effects

Symptoms No information available.

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

Skin corrosion/irritation Not irritating to skin.
Serious eye damage/eye irritation Not irritating to eyes.
Sensitization Not a skin sensitizer.
Mutagenic Effects Negative in the Ames test.
Carcinogenicity This substance is not classified as a carcinogen by IARC, OSHA, ACGIH, or NTP.

Reproductive Toxicity This product does not contain any known or suspected reproductive hazards.

Developmental Toxicity No known hazard.

Teratogenic No known hazard.

STOT - single exposure None under normal use conditions.

STOT - repeated exposure No known hazard.

Aspiration hazard No known hazard.

Numerical measures of toxicity-Product Information Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water

Oleic acid 112-80-1		LC50= 205 mg/L Pimephales promelas 96 h		Flea)
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Persistence and degradability
(OECD 301B) (28 days) 93%. Readily biodegradable.

Bioaccumulation/Accumulation
Not expected to be bioaccumulative.

Mobility
substance not classified.

Other Adverse Effects

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Method Dispose of in accordance with applicable regulations.

Contaminated Packaging Dispose of in accordance with applicable regulations.

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

MEX Not regulated

ICAO Not regulated

IATA Not regulated

IMDG / IMO Not regulated

RID Not regulated

ADR Not regulated

ADN Not regulated

15. REGULATORY INFORMATION

International Inventories

- TSCA Complies
- DSL Complies
- NDSL Complies
- EINECS Complies
- ELINCS Complies
- ENCS Complies
- IECSC Complies
- KECL Complies
- PICCS Complies
- AICS Complies

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
 ENCS - Japan Existing and New Chemical Substances
 IECS - China Inventory of Existing Chemical Substances
 KECL - Korean Existing and Evaluated Chemical Substances
 PICCS - Philippines Inventory of Chemicals and Chemical Substances
 AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Oleic acid 112-80-1			X

16. OTHER INFORMATION

NFPA	Health Hazard 1	Flammability 1	Instability 0	Physical and Chemical Hazards n/a
HMIS	Health Hazard 1	Flammability 1	Physical hazards 0	Personal Precautions B

Prepared by Product Steward
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Revision Note
Reason for Revision Updated Section 15. "Proposition 65 Chemicals"

Disclaimer

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End of Safety Data Sheet