

# Part of Thermo Fisher Scientific

## SAFETY DATA SHEET

Creation Date 23-Sep-2009	Revision Date 06-May-2014	Revision Number 2
	1. Identification	
Product Name	Oleic acid	
Cat No. :	A195-500	
Synonyms	cis-9-Octadecenoic acid	
Recommended Use	Laboratory chemicals.	
Uses advised against Details of the supplier of the safe	No Information available ty data sheet	
<b>Company</b> Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410	Emergency Telephone Number CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887	

### 2. Hazard(s) identification

### **Classification**

Tel: (201) 796-7100

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

Skin Corrosion/irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 2 Category 2 Category 3

### Label Elements

Signal Word Warning

### **Hazard Statements**

Causes skin irritation Causes serious eye irritation May cause respiratory irritation



### Precautionary Statements

### Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area

### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

### Eyes

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

### Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

### Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

### 3. Composition / information on ingredients

Component		CAS-No	Weight %		
Oleic acid		112-80-1	>95		
	4.	First-aid measures			
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minut Obtain medical attention.				
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention				
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.				
Ingestion	Do not induce vomiting. Obtain medical attention.				
Most important symptoms/effects Notes to Physician	<ul> <li>Irritating to eyes. Irritating to respiratory system. Irritating to skin.</li> <li>Treat symptomatically</li> </ul>				
	5. Fi	re-fighting measures			
Suitable Extinguishing Media	Carbon dioxide (CO 2). Dry chemical. chemical foam.				
Unsuitable Extinguishing Media	No information available				

Flash Point	189 °C / 372.2 °F
Method -	No information available
Autoignition Temperature	363 °C / 685.4 °F
Explosion Limits	
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

### **Hazardous Combustion Products**

Carbon monoxide (CO) Carbon dioxide (CO2)

**Protective Equipment and Precautions for Firefighters** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA_			Divisional homoroda
Health 1	Flammability 1	Instability 0	Physical hazards N/A
		elease measures	
Personal Precautions Environmental Precautions		quipment. Ensure adequate vent nal ecological Information.	ilation.
Methods for Containment and Cle Up		ent material (e.g. sand, silica gel, e, closed containers for disposal.	
	7. Handling	and storage	
Handling		equipment. Ensure adequate ver vapors or spray mist. Protect fro	
Storage	Keep in a dry place. Keep atmosphere. Store in free	container tightly closed. Protect zer.	from light. Store under an inert
8. 1	Exposure controls	/ personal protection	n
Exposure Guidelines		ntain any hazardous materials wit specific regulatory bodies.	h occupational exposure limits
Engineering Measures		on, especially in confined areas. ose to the workstation location.	Ensure that eyewash stations
Personal Protective Equipment			
Eye/face Protection		ve eyeglasses or chemical safety tection regulations in 29 CFR 197	
Skin and body protection	Wear appropriate protecti	ve gloves and clothing to prevent	t skin exposure.

— Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.
9	P. Physical and chemical properties
Physical State Appearance Odor Odor Threshold pH Melting Point/Range Boiling Point/Range Flash Point Evaporation Rate Flammability (solid,gas) Flammability or explosive limits Upper Lower Vapor Pressure Vapor Pressure Vapor Density Relative Density Solubility Partition coefficient; n-octanol/wate Autoignition Temperature Decomposition temperature Viscosity Molecular Formula Molecular Weight	Liquid Colorless fatty odor No information available No information available 13 °C / 55.4 °F 360 °C / 680 °F 189 °C / 372.2 °F No information available Not applicable No data available 1 mmHg @ 176 °C 9.7 0.890 No information available No data available 363 °C / 685.4 °F > 80°C 39.1 mPa.s at 20 °C C18H34O2 282.46

### 10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Light sensitive. Air sensitive.
Conditions to Avoid	Excess heat. Exposure to air. Exposure to light. Incompatible products.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Product	s Carbon monoxide (CO), Carbon dioxide (CO 2)
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

### 11. Toxicological information

### Acute Toxicity

#### Product Information Component Information

component information			
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Oleic acid	25 g/kg (Rat)	Not listed	Not listed
Toxicologically Synergistic Products	No information available		

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Delayed and immed	liate effects as	well as chronic effe	cts from short an	d long-term expo	<u>sure</u>			
Irritation		Irritating to eyes, respiratory system and skin						
Sensitization		No information ava	ailable					
Carcinogenicity		The table below in	dicates whether ea	ach agency has list	ed any ingredient	as a carcinogen.		
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico		
Oleic acid	112-80-1	Not listed	Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects		No information ava	ailable					
Reproductive Effect	ts	No information available.						
Developmental Effe	cts	No information ava	ailable.					
Teratogenicity		No information ava	ailable.					
STOT - single exposision STOT - repeated ex		Respiratory systen None known	n					
Aspiration hazard		No information ava	ailable					
Symptoms / effects both acute and dela		No information available						
Endocrine Disrupto	r Information	No information available						
Other Adverse Effe	cts	The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.						

### 12. Ecological information

Component	Freshwater Algae Fres		Freshwa	ter Fish	Microtox	Water Flea	
Oleic acid	No	ot listed 205 mg/L l		LC50 96 h Not listed		Not listed	
Persistence and Degradab	ility	Persistence i	s unlikely bas	ed on informat	ion available.		
Bioaccumulation/ Accumulation No information availab			on available.				
Mobility		No information available.					
C	omponen	t			log Pow		
Oleic acid				7.73			
		13. Di	sposal c	onsidera	tions		
Waste Disposal Methods	ods         Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.						
		14. T	ranspor	t informa	tion		

	14. Transport informatio
DOT	Not regulated
TDG	Not regulated
	Not regulated
IMDG/IMO	Not regulated

Ecotoxicity Do not empty into drains.

### 15. Regulatory information

### International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Oleic acid	Х	Х	-	204-007-	-		Х	Х	Х	Х	Х
				1							

Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

### U.S. Federal Regulations

TSCA 12(b)	Not applicable	
SARA 313	Not applicable	
SARA 311/312 Hazardous Categori Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure Ha Reactive Hazard		Yes No No No
Clean Water Act	Not applicable	
Clean Air Act	Not applicable	

**OSHA** Occupational Safety and Health Administration Not applicable

CERCLA Not applicable

California Proposition 65

This product does not contain any Proposition 65 chemicals

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island	
Oleic acid	-	-	Х	-	Х	
LLC Department of Transportation						

#### U.S. Department of Transportation

Reportable Quantity (RQ):	N
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N

### **U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

#### Other International Regulations

Mexico - Grade

No information available

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

**WHMIS Hazard Class** 

D2B Toxic materials

**Regulatory Affairs** 

Thermo Fisher Scientific



### 16. Other information

**Prepared By** 

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This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

#### Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

### **End of SDS**