

SAFETY DATA SHEET

Creation Date 23-Sep-2009

Revision Date 14-Feb-2020

Revision Number 3

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Product Name

Oleic acid

A16663

Cat No. :

CAS-No

Synonyms

112-80-1 cis-9-Octadecenoic acid

Recommended UseLaboratory chemicals.Uses advised againstFood, drug, pesticide or biocidal product use.Details of the supplier of the safety data sheet

<u>Company</u>

Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 **Email:** tech@alfa.com www.alfa.com

Emergency Telephone Number

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

2. Hazard(s) identification

Classification Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

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

Label Elements

Hazard Statements

Precautionary Statements <u>Hazards not otherwise classified (HNOC)</u> None identified

3. Composition/Information on Ingredients

Component		CAS-No	Weight %				
Oleic acid		112-80-1	>95				
4. First-aid measures							
General Advice If symptoms persist, call a physician.							
Eye Contact	ontact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. G medical attention.						
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.						
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.						
Ingestion	Clean mouth with water and drink afterwards plenty of water.						
Most important symptoms and effects	None reasonably foreseeable.						
Notes to Physician	Treat symptomatically						

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.
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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 Lower Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No data available No data available No information available 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 Health 0	Flammability 1	Instability 1	Physical hazards N/A			
	6. Accidental release measures					
Personal Precautions Environmental Precautions	Use personal protective equipment as required. Ensure adequate ventilation. Should not be released into the environment.					

Methods for Containment and Clean Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Up

	7. Handling and storage				
Leading	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid				
	ingestion and inhalation. Do not get in eyes, on skin, or on clothing.				
Storage	Keep container tightly closed in a dry and well-ventilated place. Store under an inert				
	atmosphere. To maintain product quality: Store in freezer.				
8. E	xposure controls / personal protection				
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.				
Fu sin s sin s Massaura					
Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.				
Personal Protective Equipment					
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by				
	OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.				
Skin and body protection	Wear appropriate protective gloves and clothing to prevent 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. Physical and chemical properties	9. Ph	/sical	and	chemical	properties
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7. Thysical and chemical properties					
Physical State	Liquid				
Appearance	Colorless				
Odor	fatty odor				
Odor Threshold	No information available				
рН	No information available				
Melting Point/Range	13 °C / 55.4 °F				
Boiling Point/Range	360 °C / 680 °F @ 760 mmHg				
Flash Point	189 °C / 372.2 °F				
Evaporation Rate	No information available				
Flammability (solid,gas)	Not applicable				
Flammability or explosive limits					
Upper	No data available				
Lower	No data available				
Vapor Pressure	1 mmHg @ 176 °C				
Vapor Density	9.7				
Specific Gravity	0.890				
Solubility	Insoluble in water				
Partition coefficient; n-octanol/water	No data available				
Autoignition Temperature	363 °C / 685.4 °F				
Decomposition Temperature	> 80°C				
Viscosity	39.1 mPa.s at 20 °C				
Molecular Formula	C18 H34 O2				
Molecular Weight	282.46				

10. Stability and reactivity						
Reactive Hazard	None known, based on information available					
Stability	Air sensitive.					
Conditions to Avoid	Incompatible products. Excess heat. Exposure to light. Exposure to air.					
Incompatible Materials	Strong oxidizing agents					
Hazardous Decomposition Product	s Carbon monoxide (CO), Carbon dioxide (CO₂)					
Hazardous Polymerization	Hazardous polymerization does not occur.					
Hazardous Reactions	None under normal processing.					

11. Toxicological information

Acute Toxicity

Product Information

Componer	t	LD50 Oral LD50 Dermal		LC50 Inhalation			
Oleic acid		LD50 = 25 g/kg (Rat) Not listed Not listed					
oxicologically Syn roducts	-	No information avai			I		
elayed and immed	iate effects as w	vell as chronic effect	ts from short a	nd long-term expo	osure		
Irritation		No information avail	ilable				
ensitization		No information avail	ilable				
arcinogenicity		The table below inc	licates whether e	ach agency has lis	ted any ingredient	as a carcinoge	
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico	
Oleic acid	112-80-1	Not listed	Not listed	Not listed	Not listed	Not listed	
utagenic Effects		No information available					
eproductive Effect	S	No information available.					
evelopmental Effe	cts	No information available.					
eratogenicity		No information available.					
TOT - single expo		None known					
TOT - repeated ex	oosure	None known					
Aspiration hazard		No information available					
ymptoms / effects elayed	,both acute and	d No information available					
	r Information	No information available					
ndocrine Disrupto	rinormation			The toxicological properties have not been fully investigated.			
ndocrine Disrupto other Adverse Effe		The toxicological pr	roperties have no	t been fully investi	gated.		

Ecotoxicity

Component	Freshw	ater Algae	Freshwa	ter Fish	Microtox	Water Flea	
Oleic acid	eic acid Not listed LC50: = 205 m		ng/L, 96h static es promelas)				
Persistence and Degradability May persist							
Bioaccumulation/ Accumulation No information available.							
Mobility . Is not likely mobile in the environment due its low water solubility.							
Component log Pow							
Oleic acid 7.73							
13. Disposal considerations							
Waste Disposal Methods 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. 7	[ranspor	t informati	ion		
DOT		Not regulate	d				
TDG		Not regulate					
<u>IATA</u>		Not regulate					
IMDG/IMO		Not regulate	d				

15. Regulatory information

United States of America Inventory

1	Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
	Oleic acid	112-80-1	Х	ACTIVE	-

Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

Not applicable TSCA 12(b) - Notices of Export

International Inventories Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Oleic acid	112-80-1	Х	-	204-007-1	Х	Х	Х	Х	KE-26450

U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (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.

U.S. State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island	
Oleic acid	-	-	X	-	Х	
IS Department of Tra	nonertation					
J.S. Department of Tra						
Reportable Quantity (RC	·					
OOT Marine Pollutant	N					
OT Severe Marine Pollutant N						
J.S. Department of Hol Security	meland This pro	duct does not contai	in any DHS chemicals.			
Other International Reg	gulations					
Mexico - Grade	No infor	mation available				

	16. Other information
Prepared By	Health, Safety and Environmental Department Email: tech@alfa.com www.alfa.com
Creation Date Revision Date Print Date Revision Summary	23-Sep-2009 14-Feb-2020 14-Feb-2020 SDS authoring systems update, replaces ChemGes SDS No. 112-80-1/2.

Disclaimer

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text

End of SDS