

SAFETY DATA SHEET

Creation Date 23-Sep-2009

Revision Date 25-Dec-2021

Revision Number 8

1. Identification

Product Name

Oleic acid

Cat No. :

AC270290000; AC270290050; AC270290250; AC270291000

CAS No Synonyms 112-80-1 cis-9-Octadecenoic acid

Recommended Use Uses advised against Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

<u>Company</u>

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification

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

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

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	eral Advice If symptoms persist, call a physician.					
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get 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 sympto	matically				

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant 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 Impac	t 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
0Health
1Flammability
1Instability
1Physical hazards
N/A01116. 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 Clea Up	n Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.			
	7. Handling and storage			
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid ingestion and inhalation. Do not get in eyes, on skin, or on clothing.			
Storage.	To maintain product quality: Store in freezer. Keep container tightly closed in a dry and well-ventilated place. Store under an inert atmosphere. Incompatible Materials. Strong oxidizing agents.			
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.			
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

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
Molecular Formula
Molecular Weight

39.1 mPa.s at 20 °C C18 H34 O2 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 Prod	ucts 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 Informa	ation						
Component		LD50 Oral		LD50 Dermal		LC50 Inhalation	
Oleic acid		LD50 = 25 g/kg (Rat)	Not listed	No	Not listed	
Toxicologically Syn Products	-		No information available				
Delayed and immed	liate effects a	s well as chronic effec	cts from short ar	nd long-term expo	<u>osure</u>		
rritation		No information ava	ilable				
Sensitization		No information ava	ilable				
Carcinogenicity		The table below inc	dicates 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	
Mutagenic Effects Reproductive Effects		No information ava	No information available				
		No information ava	No information available.				
Developmental Effects		No information ava	No information available.				
Teratogenicity		No information ava	No information available.				
STOT - single expo STOT - repeated ex		None known None known					
Aspiration hazard		No information ava	No information available				
Symptoms / effects, both acute and No information available delayed							
Endocrine Disrupto	r Information	No information ava	No information available				
Other Adverse Effe	cts	The toxicological p	The toxicological properties have not been fully investigated.				

12. Ecological information

Ecotoxicity

Component Oleic acid	Freshwater Algae Not listed	Freshwater Fish LC50: = 205 mg/L, 96h static (Pimephales promelas)	Microtox Not listed	Water Flea Not listed
Persistence and Degrada	ability May persist			<u> </u>

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. Transport information			
DOT	Not regulated			
DOT TDG IATA	Not regulated			
IATA	Not regulated			
IMDG/IMO	Not regulated			
15. Regulatory information				

United States of America Inventory

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

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

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

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

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal RegulationsSARA 313Not applicableSARA 311/312 Hazard CategoriesSee section 2 for more informationCWA (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 Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Oleic acid	-	-	Х	-	Х

U.S. Department of Transportation

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

U.S. Department of Homeland This product does not contain any DHS chemicals. Security

Other International Regulations

Mexico - Grade

Disclaimer

No information available

Authorisation/Restrictions according to EU REACH

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Oleic acid	112-80-1	Listed	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Oleic acid	112-80-1	Not applicable	Not applicable	Not applicable	Annex I - Y34

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	23-Sep-2009 25-Dec-2021 25-Dec-2021 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).

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