

SAFETY DATA SHEET

Creation Date 15-Dec-2011

Revision Date 16-Jun-2022

Revision Number 6

1. Identification

AC385550000; AC385550250; AC385551000; AC385555000

Product Name

Methyl caprate

Cat No. :

Synonyms

CAS No

110-42-9 Methyl decanoate

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

Details of the supplier of the safety data sheet

Company

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

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

Flammable liquids

Category 4

Label Elements

Signal Word Warning

Hazard Statements Combustible liquid

Precautionary Statements

Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Wear protective gloves/protective clothing/eye protection/face protection **Fire** In case of fire: Use CO2, dry chemical, or foam for extinction **Storage** Store in a well-ventilated place. Keep cool **Disposal**

Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC)

Toxic to aquatic life with long lasting effects

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Decanoic acid, methyl ester	110-42-9	>95

	4. First-aid measures
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. Get medical attention if symptoms occur.
Inhalation	Remove to fresh air. Get medical attention if symptoms occur. If not breathing, give artificial respiration.
Ingestion	Do NOT induce vomiting. Get medical attention.
Most important symptoms and effects Notes to Physician	Difficulty in breathing. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. Water mist may be used to cool closed containers.
Unsuitable Extinguishing Media	No information available
Flash Point	90 °C / 194 °F
Method -	No information available
Autoignition Temperature Explosion Limits	No information available
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

Combustible material. Risk of ignition. Containers may explode when heated. 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 1	Flammability 2	Instability 0	Physical hazards N/A
	6. Accidental re	elease measures	
Personal Precautions		quipment as required. Remove a	all sources of ignition. Avoid easures against static discharges.
Environmental Precautions		vater or sanitary sewer system.	casures against static discharges.
Methods for Containment and Cle Up		ition. Soak up with inert absorbe osal. Use spark-proof tools and	
	7. Handling	and storage	
Handling		equipment/face protection. Ensu clothing. Avoid ingestion and inf sources of ignition.	
Storage.		osed in a dry, cool and well-vent ncompatible Materials. Strong c	
8. [/ personal protection	
Exposure Guidelines		ntain any hazardous materials wi gion specific regulatory bodies.	ith occupational exposure
Engineering Measures	None under normal use co areas.	onditions. Ensure adequate vent	tilation, especially in confined
Personal Protective Equipment			
Eye/face Protection	Wear appropriate protecti OSHA's eye and face prot EN166.	ve eyeglasses or chemical safet tection regulations in 29 CFR 19	y goggles as described by 10.133 or European Standard
Skin and body protection	Wear appropriate protective	ve gloves and clothing to prever	it skin exposure.
Respiratory Protection	No protective equipment i	s needed under normal use con	ditions.
Hygiene Measures	Handle in accordance with	n good industrial hygiene and sa	fety practice.
	9. Physical and ch	nemical properties	

Physical and chemical properties	9. Ph	/sical	and	chemical	pro	perties
--	-------	--------	-----	----------	-----	---------

hysical State Liquid opearance Colorless dor No information available dor Threshold No information available	
No information available	
tor Threshold No information available	
No information available	
elting Point/Range -18 °C / -0.4 °F	
biling Point/Range 226 °C / 438.8 °F @ 760 mmHg	
ash Point 90 °C / 194 °F	
vaporation Rate No information available	
ammability (solid,gas) Not applicable	
ammability or explosive limits	

Upper Lower Vapor Pressure Vapor Density Specific Gravity Solubility Partition coefficient; n-octanol/water Autoignition Temperature Decomposition Temperature Viscosity Molecular Formula Molecular Weight No data available No data available No information available No information available 0.871 No information available No data available No information available No information available No information available C11 H22 O2 186.29

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products. Keep away from open flames, hot surfaces and sources of ignition.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Product	ts 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	tion						
Component		LD50 Oral		LD50 Dermal		LC50 Inhalation	
Decanoic acid, methyl ester		>2000 mg/kg (Rat)	Not listed	No	Not listed	
Toxicologically Syne	ergistic	No information ava	ailable				
Products							
Delayed and immedi	ate effects	as well as chronic effe	cts from short ar	nd long-term expo	osure		
Irritation		No information ava	ailable				
Sensitization		No information ava	No information available				
Carcinogenicity		The table below in	dicates whether e	ach agency has lis	ted any ingredient	as a carcinog	
Component	CAS N	D IARC	NTP	ACGIH	OSHA	Mexico	
Decanoic acid, methyl ester	110-42-	9 Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects		No information ava	No information available				
Reproductive Effects	S	No information available.					
Developmental Effect	cts	No information available.					
		No information available.					
Teratogenicity		No information ava	ailable.				

Aspiration hazard	No information available
Symptoms / effects,both acute and delayed	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting
Endocrine Disruptor Information	No information available
Other Adverse Effects	The toxicological properties have not been fully investigated.
	12. Ecological information

Ecotoxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

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
Decanoic acid, methyl ester	4.42

	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					
UN-No	UN3082				
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.				
Technical Name	Decanoic acid, methyl ester				
Hazard Class	9				
Packing Group	111				
TDG					
UN-No	UN3082				
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.				
Hazard Class	9				
Packing Group	III				
IATA					
UN-No	UN3082				
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.				
Hazard Class	9				
Packing Group	III				
IMDG/IMO					
UN-No					
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.				
Hazard Class	9				
Packing Group					
	15. Regulatory information				

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Decanoic acid, methyl ester	110-42-9	Х	ACTIVE	-

Legend:

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

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Not applicable Substances & Mixtures, Under TSCA Section 6(h) (PBT)

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
Decanoic acid, methyl ester	110-42-9	Х	-	203-766-6	Х	Х	Х	Х	Х	KE-09460

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

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 Regulations	Not applicable
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	Slight risk, Grade 1
Authorisation/Restrictions accordin	g to EU REACH Not applicable

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Decanoic acid, methyl ester	110-42-9	-	-	-

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Decanoic acid, methyl ester	110-42-9	Listed	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) -	Seveso III Directive (2012/18/EC) -	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
		Qualifying Quantities for Major Accident Notification	Qualifying Quantities for Safety Report Requirements		
Decanoic acid, methyl ester	110-42-9	Not applicable	Not applicable	Not applicable	Not applicable

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

	16. Other information
Prepared By	Regulatory Affairs
	Thermo Fisher Scientific
	Email: EMSDS.RA@thermofisher.com
Creation Date	15-Dec-2011
Revision Date	16-Jun-2022
Print Date	16-Jun-2022
Revision Summary	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 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