

SAFETY DATA SHEET

Revision Date 24-Dec-2021

Revision Number 4

	1. Identification
Product Name	Ethyl caproate
Cat No. :	AC164990000; AC164990050; AC164991000; AC164995000
CAS No Synonyms	123-66-0 Ethyl hexanoate
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

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 3

Label Elements

Signal Word Warning

Hazard Statements Flammable liquid and vapor



Precautionary Statements Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting equipment Use only non-sparking tools Take precautionary measures against static discharge Wear protective gloves/protective clothing/eye protection/face protection Skin IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower 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)

None identified

3. Composition/Information on Ingredients

Component		CAS No	Weight %
Ethyl hexanoate		123-66-0	> 99
	4.	First-aid measures	
Eye Contact		edical attention is required. Rinse imme or at least 15 minutes.	ediately with plenty of water, also under
Skin Contact		nediately with soap and plenty of water shoes. Get medical attention.	while removing all contaminated
Inhalation		n exposure, lie down. Remove to fresh a ng, give artificial respiration. Immediate	
Ingestion		ice vomiting. Never give anything by mo er. Call a physician immediately. If poss	
Most important symptoms and effects Notes to Physician	Difficulty in b nausea and Treat sympto	vomiting	may be headache, dizziness, tiredness,
	5. Fi	re-fighting measures	
Suitable Extinguishing Media	Use extinguis	shing measures that are appropriate to I	ocal circumstances and the

surrounding environment. Water mist may be used to cool closed containers.

Unsuitable Extinguishing Media	No information available
Flash Point	54 °C / 129.2 °F
Method -	No information available
Autoignition Temperature Explosion Limits	395 °C
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

Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

Hazardous Combustion Products

Thermal decomposition can lead to release of irritating gases and vapors. 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 2	Instability 0	Physical hazards N/A
	6. Accidental re	lease measures	
Personal Precautions Environmental Precautions		tion. Take precautionary measu nal Ecological Information. Do no	
Methods for Containment and Cle Up	sawdust). Keep in suitable	ent material (e.g. sand, silica gel , closed containers for disposal. explosion-proof equipment.	
	7. Handling	and storage	
Handling	and explosion-proof equip		ors/spray. Use spark-proof tools ols. Keep away from open flames, neasures against static
Storage.	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed in a dry and well-ventilated place. Keep away from heat, sparks and flame. Incompatible Materials. Strong oxidizing agents.		
8. E	Exposure controls	/ personal protection	n
Exposure Guidelines		ain any hazardous materials wit gion specific regulatory bodies.	h occupational exposure
Engineering Measures	Ensure adequate ventilatic electrical/ventilating/lightin	on, especially in confined areas. g equipment.	Use explosion-proof
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	No protective equipment is needed under normal use conditions.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

	7. Physical and chemical properties
Physical State	Liquid
Appearance	Colorless
Odor	aromatic
Odor Threshold	No information available
рН	No information available
Melting Point/Range	-67 °C / -88.6 °F
Boiling Point/Range	168 °C / 334.4 °F @ 760 mmHg
Flash Point	54 °C / 129.2 °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	<1.33 kPa @ 25°C
Vapor Density	5
Specific Gravity	0.869
Solubility	No information available
Partition coefficient; n-octanol/wa	ter No data available
Autoignition Temperature	395 °C
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C8 H16 O2
Molecular Weight	144.21

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Keep away from open flames, hot surfaces and sources of ignition. Incompatible products.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Product	s Thermal decomposition can lead to release of irritating gases and vapors, Carbon monoxide (CO), Carbon dioxide (CO ₂)
Hazardous Polymerization	No information available.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information	No acute toxicity information is available for this product
Component Information Toxicologically Synergistic Products	No information available

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

Irritation No info	rmation available
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Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Ethyl hexanoate	123-66-0	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	ilable			
Reproductive Effect	s	No information ava	ilable.			
Developmental Effe	cts	No information available.				
Teratogenicity		No information available.				
STOT - single expos STOT - repeated exp		None known None known				
Aspiration hazard		No information ava	ilable			
Symptoms / effects delayed	,both acute and	Symptoms of over	exposure may be l	neadache, dizzines	ss, tiredness, naus	ea and vomiting
Endocrine Disrupto	r Information	No information available				
Other Adverse Effect	cts	The toxicological p	roperties have not	been fully investig	jated.	

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.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Ethyl hexanoate	Not listed	LC50: 8.02 - 9.97 mg/L, 96h flow-through (Pimephales promelas)	Not listed	Not listed

Persistence and Degradability May persist based on information available.

Bioaccumulation/ Accumulation No informat

No information available.

Mobility

Is not likely mobile in the environment due its low water solubility.

Component	log Pow
Ethyl hexanoate	2.83

	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 Proper Shipping Name Hazard Class	UN3272 ESTERS, N.O.S. 3

Packing Group TDG	III
UN-No	UN3272
Proper Shipping Name	ESTERS, N.O.S.
Hazard Class	3
Packing Group	III
IATA	
UN-No	UN3272
Proper Shipping Name	ESTERS, N.O.S.
Hazard Class	3
Packing Group	III
IMDG/IMO	
UN-No	UN3272
Proper Shipping Name	ESTERS, N.O.S.
Hazard Class	3
Packing Group	
	15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Ethyl hexanoate	123-66-0	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
Ethyl hexanoate	123-66-0	Х	-	204-640-3	Х	Х	Х	Х	Х	KE-19803

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	

	Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
	Ethyl hexanoate	Х	Х	Х	-	Х
Re D0	S. Department of Trans eportable Quantity (RQ): DT Marine Pollutant DT Severe Marine Pollut	N N				
	S. Department of Home curity	eland This pro	oduct does not contai	n any DHS chemicals		

Other International Regulations

Mexico - Grade 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)
Ethyl hexanoate	123-66-0	Not applicable	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)
Ethyl hexanoate	123-66-0	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information				
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com			
Revision Date Print Date Revision Summary	24-Dec-2021 24-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).			

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