

Safety Data Sheet

 according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
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 Supersedes: 05/08/2022
 Version: 2.2

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SECTION 1: Identification of the sub	stance/mixture and of the company/undertaking	
1.1. Product identifier		
Product form	: Substance	
Substance name	: LINOLEIC ACID, ETHYL ESTER (LINOLEATE-U-13C18, 98%) 95%+ PURE	
EC-No.	: 208-868-4 (Unlabeled)	
CAS-No.	: 544-35-4 (Unlabeled)	
Product code	: CLM-3960	
Formula	: *CH3(*CH2)4*CH=*CH*CH2*CH=*CH(*CH2)7*COOCH2CH3	
Synonyms	: Linoleic acid ethyl ester / Ethyl linoleate	
1.2. Relevant identified uses of the subs	tance or mixture and uses advised against	
1.2.1. Relevant identified uses		
Main use category	: Professional use	
Industrial/Professional use spec	: For professional use only	
1.2.2. Uses advised against		
No additional information available		
1.3. Details of the supplier of the safety	data sheet	
Cambridge Isotope Laboratories, Inc.		
50 Frontage Road Andover, MA 01810		
USA		
USA: 1-800-322-1174 Int: 1-978-749-8000 <u>cilsales@isotope.com</u> www.isotope.com		
Emergency telephone number		
Emergency numbers:		
Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)		
SECTION 2: Hazards identification		
2.1. Classification of the substance or m	ixture	
Classification according to Regulation (EC)	lo. 1272/2008 [CLP]	
Not classified		
Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]		
Not classified		
GHS-US classification		
Not classified		
Adverse physicochemical, human booth and	environmental effects	
Adverse physicochemical, human health and environmental effects No additional information available		
2.2. Label elements		
Labella a secondia a (s. De autorio a (50) No. 40		

Labeling according to Regulation (EC) No. 1272/2008 [CLP] No labeling applicable

GHS-US labeling

No labeling applicable

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2.3. Other hazards

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
LINOLEIC ACID, ETHYL ESTER (LINOLEATE-U-13C18, 98%) 95%+ PURE	(CAS-No.) 544-35-4 (Unlabeled) (EC-No.) 208-868-4 (Unlabeled)	100	Not classified
Nama	Due doest belevetifien	0/	Ole selficenties as sealing to
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]

Full text of R- and H- phrases: see section 16

Name	Product identifier	%	GHS-US classification
LINOLEIC ACID, ETHYL ESTER (LINOLEATE-U-13C18, 98%) 95%+ PURE (Main constituent)	(CAS-No.) 544-35-4 (Unlabeled)	100	Not classified

Full text of H-phrases: see section 16

3.2. Mixtures

Not applicable			
SECTION 4: First aid measures			
4.1. Description of first aid measures			
First-aid measures general	: Move out of dangerous area. Consult a physician and show this safety data sheet.		
First-aid measures after inhalation	: If breathed in, move person into fresh air. If not breathing, give artificial respiration.		
First-aid measures after skin contact	: Wash off with soap and plenty of water.		
First-aid measures after eye contact	: Flush eyes with water as a precaution.		
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Rinse mouth with water.		
4.2. Most important symptoms and effect	cts, both acute and delayed		
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory tract irritation.		
Symptoms/effects after skin contact	: May be harmful if absorbed through skin. May cause skin irritation.		
Symptoms/effects after eye contact	: May cause eye irritation.		
Symptoms/effects after ingestion	: May be harmful if swallowed.		
4.3. Indication of any immediate medical attention and special treatment needed			
No additional information available			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.		
5.2. Special hazards arising from the su	bstance or mixture		
No additional information available			
5.3. Advice for firefighters			
Firefighting instructions	: Wear self contained breathing apparatus for fire fighting if necessary.		
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.		

SECTIO	SECTION 6: Accidental release measures			
6.1.	Personal precautions, protective equ	uipment and emergency procedures		
	For non-emergency personnel cy procedures	: Avoid breathing vapors, mist, or gas.		
	For emergency responders onal information available			
6.2.	Environmental precautions			
Do not let	product enter drains.			

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6.3. Methods and material for containment and cleaning up			
For containment	: Keep in suitable, closed containers for disposal.		
6.4. Reference to other sections			
No additional information available			
SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Additional hazards when processed	: Normal measures for preventive fire protection.		
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Wash hands before		
, , , , , , , , , , , , , , , , , , , ,	breaks and at the end of workday.		
7.2. Conditions for safe storage, includin	g any incompatibilities		
Technical measures	: Keep container tightly closed in a dry and well-ventilated place.		
Storage conditions	: Store in freezer (-80°C) under inert gas. Protect from light, air and moisture.		
7.3. Specific end use(s)			
No additional information available			
SECTION 8: Exposure controls/perso	onal protection		
8.1. Control parameters			
No additional information available			
8.2. Exposure controls Personal protective equipment	: Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.		
Personal protective equipment	. Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatos.		
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Hand protection	: Wear suitable protective clothing and gloves.		
Eye protection Skin and body protection	 Wear safety glasses with side shields (or goggles) and a face shield. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal 		
Skin and body protection	technique to avoid skin contact with this product. Dispose of contaminated gloves after use in		
	accordance with applicable laws and good laboratory practices. Wash and dry hands.		
	Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.		
Respiratory protection	: When appropriate, use NIOSH/CEN approved respirator.		
SECTION 9: Physical and chemical p			
9.1. Information on basic physical and ch			
Physical state	: Liquid : Clear, liquid		
Appearance Molecular mass	: 326.37 g/mol (Labeled)		
Color	: Colorless to light yellow		
Odor	: No data available		
Odor threshold	: No data available		
pH	: No data available		
Relative evaporation rate (butyl acetate=1)	: No data available		
Melting point	: No data available		
Freezing point	: No data available		
Boiling point	: 224 °C (435 °F) at 23 hPa (17 mmHg) - lit.		
Flash point	: 113 °C (235 °F) - closed cup		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: No data available		
Vapor pressure	: No data available		
Relative vapor density at 20 °C	: No data available		
Relative density	: No data available		
Specific gravity / density	: 0.876 g/ml at 25 °C (77 °F)		
Solubility	: No data available		
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EN (English US)

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Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Two years after receipt of order if stored as above	/e. Re-QC after two years.
10.3. Possibility of hazardous reactions	
No additional information available	
10.4. Conditions to avoid	
No additional information available	
10.5. Incompatible materials	
Strong oxidizing agents, Acids, Bases, Reducing	j agents.
10.6. Hazardous decomposition products	a contract of the second s
Formed under fire conditions: Carbon oxides.	
SECTION 11: Toxicological informat	ion
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Skin corrosion/irritation	· Not close if ad
	: Not classified : Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Reproductive toxicity Specific target organ toxicity – single exposure	: Not classified : Not classified
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory tract irritation.
Symptoms/effects after skin contact	: May be harmful if absorbed through skin. May cause skin irritation.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed.

SECTI	ON 12: Ecological information
12.1.	Toxicity
No addit	ional information available
12.2.	Persistence and degradability
No addit	ional information available

12.3. Bioaccumulative potential No additional information available

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12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessmer	it
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideration	s
13.1. Waste treatment methods	
Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations.
Product/Packaging disposal recommendations	: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
Ecology - waste materials	Dispose of as unused product.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / AD	
14.1. UN number	
Not applicable	
14.2. UN proper shipping name	
Not applicable	
14.3. Additional information	
Other information	: No supplementary information available.
Special transport precautions	: Not dangerous goods.
Overland transport	
No additional information available	
Transport by sea	
No additional information available	
Air transport	
No additional information available	
14.4. Environmental hazards	
Other information	: No supplementary information available.
14.5. Special precautions for user Special transport precautions	: Not dangerous goods.
14.6. Transport in bulk according to Anne	x II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information		
15.1. US Federal regulations		
LINOLEIC ACID, ETHYL ESTER (LINOLEATE-U	J-13C18, 98%) 95%+ PURE (544-35-4 (Unlabeled))	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302	
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313	

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15.2. International regulations

CANADA

LINOLEIC ACID, ETHYL ESTER (LINOLEATE-U-13C18, 98%) 95%+ PURE (544-35-4 (Unlabeled))

Listed on the Canadian DSL (Domestic Substances List)

15.2.1. National regulations

No additional information available

15.3. US State regulations

LINOLEIC ACID, ETHYL ESTER (LINOLEATE-U-13C1	8, 98%) 95%+ PURE (544-35-4 (Unlabeled))
U.S California - Proposition 65 - Carcinogens List	No
U.S California - Proposition 65 - Developmental Toxicity	No
U.S California - Proposition 65 - Reproductive Toxicity - Female	No
U.S California - Proposition 65 - Reproductive Toxicity - Male	No
State or local regulations	RTK - U.S Pennsylvania - RTK (Right to Know) List RTK - U.S New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

Other information	: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.
NFPA health hazard	: 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.
NFPA fire hazard	: 1 - Materials that must be preheated before ignition can occur.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
Hazard Rating	
Health	: 0 Minimal Hazard - No significant risk to health

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Flammability	: 1 Slight Hazard
Physical	: 0 Minimal Hazard

CIL Substance SDS

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