

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 8/1/2011 Revision date: 2/21/2023 Supersedes: 11/7/2019 Version: 4.0

SECTION 1: Identification		
1.1. Identification		
Product form Substance name CAS-No. Product code Formula Synonyms	<ul> <li>Substance</li> <li>PALMITIC ACID, METHYL ESTER (PALMITATE-U-13C16, 98%+)</li> <li>112-39-0</li> <li>CLM-8390</li> <li>*CH3(*CH2)14*CO2CH3</li> <li>Methyl palmitate / Methyl hexadecanoate</li> </ul>	
1.2. Recommended use and restrictions on	use	
No additional information available		
1.3. Supplier		
Cambridge Isotope Laboratories, Inc. 50 Frontage Rd 01810 ANDOVER, MA, 01810 USA T 1-800-322-1174 <u>cilsales@isotope.com</u> - <u>www.isotope.com</u>		
1.4. Emergency telephone number		
Emergency number	: 1-703-741-5970 Chemtrec 1-800-424-9300 24 hours	
SECTION 2: Hazard(s) identification		
2.1. Classification of the substance or mixt	ure	
GHS US classification Not classified		
2.2. GHS Label elements, including precaut	tionary statements	
GHS US labeling No labeling applicable		
2.3. Other hazards which do not result in classification		
No additional information available		
2.4. Unknown acute toxicity (GHS US)		
Not applicable		

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SECTION 3: Composition/Information on ingredients			
3.1. Substances			
Name	Product identifier	%	GHS US classification
PALMITIC ACID, METHYL ESTER (PALMITATE-U-13C16, 98%+) (Main constituent)	CAS-No.: 112-39-0	100	Not classified
Full text of hazard classes and H-statements : see section 16		1	

### 3.2. Mixtures

Not applicable

<ul> <li>If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.</li> <li>Wash off with soap and plenty of water. Consult a physician.</li> <li>Flush eyes with water as a precaution.</li> <li>Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.</li> </ul>
(acute and delayed)
<ul> <li>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.</li> <li>May be harmful if inhaled. May cause respiratory tract irritation.</li> </ul>
<ul> <li>May be harmful if absorbed through skin. May cause skin irritation.</li> <li>May cause eye irritation.</li> </ul>

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures			
5.1. Suitable (and unsuitable) extinguishing media			
Suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.		
5.2. Specific hazards arising from the chemical			
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO2).		
5.3. Special protective equipment and precautions for fire-fighters			
Firefighting instructions	: Fight fire with normal precautions from a reasonable distance. Wear a self contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.		
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.		

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SECTION 6: Accidental release measur	res			
6.1. Personal precautions, protective equip	ment and emergency procedures			
6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders	: Avoid dust formation. Avoid breathing vapors, mist or gas.			
No additional information available				
6.2. Environmental precautions				
Prevent entry to sewers and public waters. Do not allow to enter drains or water courses. Avoid release to the environment.				
6.3. Methods and material for containment and cleaning up				
For containment Methods for cleaning up	<ul><li>Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal.</li><li>This material and its container must be disposed of in a safe way, and as per local legislation.</li></ul>			
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	: Provide appropriate exhaust ventilation at places where dust is formed. 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, includ	ing any incompatibilities
Technical measures Storage conditions	<ul><li>Store in a well-ventilated place. Keep container tightly closed.</li><li>Store at room temperature away from light and moisture.</li></ul>

## **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

FALMITIC ACID, METHTLESTER (I	PALMITIC ACID, METHYL ESTER (PALMITATE-U-13C16, 98%+) (112-39-0)	
USA - ACGIH - Occupational Exposure Limits		
ACGIH chemical category No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.		

## 8.2. Appropriate engineering controls

#### No additional information available

8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.

### Eye protection:

Wear safety glasses with side shields (or goggles) and a face shield.

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#### Skin and body protection:

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

#### **Respiratory protection:**

When appropriate, use NIOSH/CEN approved respirator.

#### Personal protective equipment symbol(s):



# **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state	:	Solid
Appearance	:	Solid.
Color	:	White
Odor	:	No data available
Odor threshold	:	No data available
рН	:	No data available
Melting point	:	32 – 35 °C (90 - 95 °F) - lit.
Freezing point	:	No data available
Boiling point	:	185 (≤ 137) °C (365 °F) at 13 hPa (10 mmHg) - lit.
Flash point	:	113 °C (235.4 °F) - closed cup
Relative evaporation rate (butyl acetate=1)	:	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
Density	:	0.852 g/ml at 25 °C (77 °F)
Molecular mass	:	286.33 g/mol (Labeled)
Solubility	:	No data available
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosion limits	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	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** 

Stable if stored under recommended conditions.

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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.	
10.6. Hazardous decomposition products	s
Carbon oxides (CO, CO2).	
SECTION 11: Toxicological information	ion
11.1. Information on toxicological effects	ŝ
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Potential Adverse human health effects and	: This information is based on our current knowledge and is intended to describe the product for
symptoms	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 Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after ingestion

- : May be harmful if inhaled. May cause respiratory tract irritation.
- : May be harmful if absorbed through skin. May cause skin irritation.
- : May cause eye irritation.
- : May be harmful if swallowed.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

No additional information available

 12.2. Persistence and degradability

 No additional information available

 12.3. Bioaccumulative potential

 No additional information available

 12.4. Mobility in soil

 No additional information available

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### **12.5. Other adverse effects**

No additional information available

SECTION 13: Disposal considerations	
13.1. Disposal methods	
Regional legislation (waste) Product/Packaging disposal recommendations Ecology - waste materials	<ul> <li>Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations.</li> <li>Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.</li> <li>Dispose of as unused product.</li> </ul>
SECTION 14: Transport information	
In accordance with DOT / TDG / IMDG / IATA	
14.1. UN number	
Not regulated for transport	
14.2. UN proper shipping name	
Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>
14.3. Transport hazard class(es)	
<b>DOT</b> Transport hazard class(es) (DOT)	: Not applicable
<b>TDG</b> Transport hazard class(es) (TDG)	: Not applicable
IMDG Transport hazard class(es) (IMDG)	: Not applicable
IATA Transport hazard class(es) (IATA)	: Not applicable
14.4. Packing group	
Packing group (DOT) Packing group (TDG) Packing group (IMDG) Packing group (IATA)	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>
14.5. Environmental hazards	
Other information	: No supplementary information available.
14.6. Special precautions for user	
Special transport precautions	: DOT: Not dangerous goods
DOT No data available	

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#### TDG

No data available

#### IMDG

No data available

#### ΙΔΤΔ

No data available

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## **SECTION 15: Regulatory information**

**15.1. US Federal regulations** 

## PALMITIC ACID, METHYL ESTER (PALMITATE-U-13C16, 98%+) (112-39-0)

SARA Section 302 Threshold Planning Quantity Not subject to reporting requirements of the United States SARA Section 302 (TPQ)

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
PALMITIC ACID, METHYL ESTER (PALMITATE-U- 13C16, 98%+)	112-39-0	Not present	-	

#### **15.2. International regulations**

#### CANADA

No additional information available

#### **EU-Regulations**

No additional information available

#### **National regulations**

#### PALMITIC ACID, METHYL ESTER (PALMITATE-U-13C16, 98%+) (112-39-0)

CAUTION: This material is supplied for research and development purposes subject to the R&D exemption under TSCA, 40 CFR 720.36, and must meet the requirements of the exemption, including supervision by a "technically qualified individual" as defined by 40 CFR 720.3(ee). The use of this material for "commercial purposes" as defined by 40 CFR 720.3(r) is not permitted in the United States.

### 15.3. US State regulations

PALMITIC ACID, METHYL ESTER (PALMITATE-U-13C16, 98%+) (112-39-0)		
5	U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List	

# **SECTION 16: Other information**

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Revision date	: 02/21/2023
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

corresponding unlabeled compound.

compounds are generally not available, but are assumed to be similar or identical to the

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Safety Data Sheet (SDS), USA

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