

Long-chain Monounsaturated Fatty Acid Methyl Ester Mixture


Revision: 12/16/2019

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/830 and US OSHA HCS 2015

Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

- 1.1 Product Code:** 29353
Product Name: Long-chain Monounsaturated Fatty Acid Methyl Ester Mixture
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
Relevant identified uses: For research use only, not for human or veterinary use.
- 1.3 Details of the Supplier of the Safety Data Sheet:**
Company Name: Cayman Chemical Company
 1180 E. Ellsworth Rd.
 Ann Arbor, MI 48108
Web site address: www.caymanchem.com
Information: Cayman Chemical Company +1 (734)971-3335
- 1.4 Emergency telephone number:**
Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300
 CHEMTREC Outside USA and Canada: +1 (703)527-3887

Section 2. Hazards Identification

- 2.1 Classification of the Substance or Mixture:**
 Carcinogenicity, Category 2
- 2.2 Label Elements:**
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- GHS Signal Word:** **Warning**
- GHS Hazard Phrases:**
 H351: Suspected of causing cancer.
- GHS Precautionary Phrases:**
 P201: Obtain special instructions before use.
 P202: Do not handle until all safety precautions have been read and understood.
 P280: Wear {protective gloves/protective clothing/eye protection/face protection}.
- GHS Response Phrases:**
 P308+313: IF exposed or concerned: Get medical attention/advice.
- GHS Storage and Disposal Phrases:**
 Please refer to Section 7 for Storage and Section 13 for Disposal information.
- 2.3 Adverse Human Health Effects and Symptoms:** Material may be irritating to the mucous membranes and upper respiratory tract.
 May be harmful by inhalation, ingestion, or skin absorption.
 May cause eye, skin, or respiratory system irritation.
 Suspected of causing cancer.
 To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

Section 3. Composition/Information on Ingredients

CAS # / RTECS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
1120-25-8 NA	methyl (Z)-hexadec-9-enoate	5.0 %	214-303-2 NA	No data available.
112-62-9 RK0895000	9-Octadecenoic acid (Z)-, Methyl ester	5.0 %	203-992-5 NA	No data available.

2390-09-2 NA	methyl cis-icos-11-enoate	5.0 %	219-226-8 NA	No GHS classifications apply.
1120-34-9 NA	13-Docosenoic acid, methyl ester, (13Z)-	5.0 %	214-305-3 NA	No data available.
2733-88-2 NA	Nervonic Acid methyl ester	5.0 %	220-352-0 NA	
75-09-2 PA8050000	Dichloromethane 01-2119480404-41-0000	75.0 %	200-838-9 602-004-00-3	Carcinogen 2: H351

Section 4. First Aid Measures

4.1 Description of First Aid

Measures:

In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.

In Case of Ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.

Section 5. Fire Fighting Measures

5.1 Suitable Extinguishing Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.

Media: Use water spray to cool fire-exposed containers.

Unsuitable Extinguishing A solid water stream may be inefficient.

Media:

5.2 Flammable Properties and No data available.

Hazards:

No data available.

Flash Pt: 40.00 C

Explosive Limits: LEL: No data. UEL: No data.

Autoignition Pt: 556.00 C

5.3 Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

Section 6. Accidental Release Measures

6.1 Protective Precautions, Avoid raising and breathing dust, and provide adequate ventilation.

Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,
Emergency Procedures: and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

6.2 Environmental Take steps to avoid release into the environment, if safe to do so.

Precautions:

6.3 Methods and Material For Contain spill and collect, as appropriate.

Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations.

Up:

Section 7. Handling and Storage

- 7.1 Precautions To Be Taken in Handling:** Avoid breathing dust/fume/gas/mist/vapours/spray.
 Avoid prolonged or repeated exposure.
- 7.2 Precautions To Be Taken in Storing:** Keep away from heat, sparks, and flame.
 Keep container tightly closed.
 Store in accordance with information listed on the product insert.

Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:

CAS #	Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations
75-09-2	Dichloromethane	ACGIH TLV	TLV: 50 ppm	
		France VL	TWA: 180 mg/m3 (50 ppm) STEL: 350 mg/m3 (100 ppm)	
		OSHA PELs	PEL: 25 ppm STEL: 125 ppm (15 min)	
		Britain EH40	TWA: 350 mg/m3 (100 ppm) STEL: 1060 mg/m3 (300 ppm)	Skin Absorption

8.2 Exposure Controls:

- 8.2.1 Engineering Controls (Ventilation etc.):** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.
- 8.2.2 Personal protection equipment:**
- Eye Protection:** Safety glasses
- Protective Gloves:** Compatible chemical-resistant gloves
- Other Protective Clothing:** Lab coat
- Respiratory Equipment (Specify Type):** NIOSH approved respirator, as conditions warrant.
- Work/Hygienic/Maintenance Practices:** Do not take internally.
 Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.
 Wash thoroughly after handling.
 No data available.

Section 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

- Physical States:** [] Gas [X] Liquid [] Solid
- Appearance and Odor:** A solution in dichloromethane
- pH:** No data.
- Melting Point:** No data.
- Boiling Point:** No data.
- Flash Pt:** 40.00 C
- Evaporation Rate:** No data.
- Flammability (solid, gas):** No data available.
- Explosive Limits:** LEL: No data. UEL: No data.
- Vapor Pressure (vs. Air or mm Hg):** 350 MM_HG
- Vapor Density (vs. Air = 1):** No data.

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Specific Gravity (Water = 1):	No data.
Solubility in Water:	No data.
Octanol/Water Partition Coefficient:	No data.
Autoignition Pt:	556.00 C
Decomposition Temperature:	No data.
Viscosity:	No data.
9.2 Other Information	
Percent Volatile:	No data.

Section 10. Stability and Reactivity

10.1 Reactivity:	No data available.
10.2 Stability:	Unstable [] Stable [X]
10.3 Stability Note(s):	Stable if stored in accordance with information listed on the product insert.
Polymerization:	Will occur [] Will not occur [X]
10.4 Conditions To Avoid:	heat, sparks, and flame
10.5 Incompatibility - Materials To Avoid:	strong oxidizing agents
10.6 Hazardous Decomposition or Byproducts:	carbon dioxide carbon monoxide phosgene

Section 11. Toxicological Information

11.1 Information on Toxicological Effects:	The toxicological effects of this product have not been thoroughly studied.
Chronic Toxicological Effects:	Dichloromethane Investigated as an agricultural chemical, drug, mutagen, primary irritant, reproductive effector, and tumorigen. Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information. Dichloromethane RTECS Number: PA8050000

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
1120-25-8	methyl (Z)-hexadec-9-enoate	n.a.	n.a.	n.a.	n.a.
112-62-9	9-Octadecenoic acid (Z)-, Methyl ester	n.a.	n.a.	n.a.	n.a.
2390-09-2	methyl cis-icos-11-enoate	n.a.	n.a.	n.a.	n.a.
1120-34-9	13-Docosenoic acid, methyl ester, (13Z)-	n.a.	n.a.	n.a.	n.a.
2733-88-2	Nervonic Acid methyl ester	n.a.	n.a.	n.a.	n.a.
75-09-2	Dichloromethane	Possible	2B	A3	Yes

Section 12. Ecological Information

- 12.1 Toxicity:** Avoid release into the environment.
 Runoff from fire control or dilution water may cause pollution.
- 12.2 Persistence and Degradability:** No data available.
- 12.3 Bioaccumulative Potential:** No data available.
- 12.4 Mobility in Soil:** No data available.
- 12.5 Results of PBT and vPvB assessment:** No data available.
- 12.6 Other adverse effects:** No data available.

Section 13. Disposal Considerations

- 13.1 Waste Disposal Method:** Dispose in accordance with local, state, and federal regulations.

Section 14. Transport Information

14.1 LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Dichloromethane
DOT Hazard Class: 6.1 POISON
UN/NA Number: UN1593 **Packing Group:** III



14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Dichloromethane
UN Number: 1593 **Packing Group:** III
Hazard Class: 6.1 - POISON

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Dichloromethane
UN Number: 1593 **Packing Group:** III
Hazard Class: 6.1 - POISON

Additional Transport Information: Transport in accordance with local, state, and federal regulations.
 When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10.
 Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.

Section 15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
1120-25-8	methyl (Z)-hexadec-9-enoate	No	No	No
112-62-9	9-Octadecenoic acid (Z)-, Methyl ester	No	No	No
2390-09-2	methyl cis-icos-11-enoate	No	No	No
1120-34-9	13-Docosenoic acid, methyl ester, (13Z)-	No	No	No
2733-88-2	Nervonic Acid methyl ester	No	No	No
75-09-2	Dichloromethane	No	Yes 1000 LB	Yes



SAFETY DATA SHEET

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CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
1120-25-8	methyl (Z)-hexadec-9-enoate	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No
112-62-9	9-Octadecenoic acid (Z)-, Methyl ester	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
2390-09-2	methyl cis-icos-11-enoate	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No
1120-34-9	13-Docosenoic acid, methyl ester, (13Z)-	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
2733-88-2	Nervonic Acid methyl ester	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No
75-09-2	Dichloromethane	CAA HAP,ODC: HAP: VHAP; CWA NPDES: Yes; TSCA: Yes - Inventory, 8A CAIR; CA PROP.65: Yes: Canc.

Regulatory Information Statement:

This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.

Section 16. Other Information

Revision Date:

12/16/2019

Additional Information About This Product:

No data available.

This Product:**Company Policy or Disclaimer:**

DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.