

## SAFETY DATA SHEET

Long-chain Saturated Fatty Acid Methyl Ester Mixture 4

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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:** 29357

Product Name: Long-chain Saturated Fatty Acid Methyl Ester Mixture 4

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:



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 Material may be irritating to the mucous membranes and upper respiratory tract.

**Effects and Symptoms:** 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
112-61-8 WI4460000	Octadecanoic acid, Methyl ester 01-2119487985-14	5.0 %	203-990-4 NA	No GHS classifications apply.
1731-94-8 NA	methyl nonadecan-1-oate	5.0 %	217-056-9 NA	No GHS classifications apply.

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2 CHIMICA		MINUTE		
1120-28-1	Eicosanoic acid, methyl ester	5.0 %	214-304-8	No GHS classifications apply.
NA			NA	
6064-90-0	methyl henicosaneate	5.0 %	227-994-0	No GHS classifications apply.
NA			NA	
929-77-1	Docosanoic acid, methyl ester	5.0 %	213-207-8	No GHS classifications apply.
NA			NA	
75-09-2	Dichloromethane	75.0 %	200-838-9	Carcinogen 2: H351
PA8050000	01-2119480404-41-0000		602-004-00-3	

#### Section 4. First Aid Measures

4.1 **Description of First Aid** 

Measures:

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

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.

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

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.

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

Unsuitable Extinguishing A solid water stream may be inefficient.

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,

and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves). **Emergency Procedures:** 

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

**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:



7.2

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# Section 7. Handling and Storage

7.1 Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray.

in Handling: Avoid prolonged or repeated exposure.Precautions To Be Taken Keep away from heat, sparks, and flame.

in Storing: 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)	Skin Absorption
			STEL: 1060 mg/m3 (300 ppm)	

8.2 Exposure Controls:

**8.2.1 Engineering Controls** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne

(Ventilation etc.): 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** NIOSH approved respirator, as conditions warrant.

(Specify Type):

Work/Hygienic/Maintenan Do not take internally.

ce Practices: 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

350 MM\_HG

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 No data.

Coefficient:

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 flame10.5 Incompatibility - Materials strong oxidizing agents

To Avoid:

10.6 Hazardous carbon dioxide

**Decomposition or** carbon monoxide

Byproducts: phosgene

#### Section 11. Toxicological Information

**11.1** Information on The toxicological effects of this product have not been thoroughly studied.

Toxicological Effects: Dichloromethane - Toxicity Data: Oral TDLO (man): 1429 uL/kg; Oral LD50 (rat): 1600 mg/kg;

Intraperitoneal LD50 (rat): 916 mg/kg; Oral LD50 (mouse): 873 mg/kg; Intraperitoneal LD50

(mouse): 437 mg/kg; Subcutaneous LD50 (mouse): 6460 mg/kg;

**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
112-61-8	Octadecanoic acid, Methyl ester	n.a.	n.a.	n.a.	n.a.
1731-94-8	methyl nonadecan-1-oate	n.a.	n.a.	n.a.	n.a.
1120-28-1	Eicosanoic acid, methyl ester	n.a.	n.a.	n.a.	n.a.
6064-90-0	methyl henicosaneate	n.a.	n.a.	n.a.	n.a.
929-77-1	Docosanoic acid, methyl ester	n.a.	n.a.	n.a.	n.a.
75-09-2	Dichloromethane	Possible	2B	A3	Yes



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# 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 No data available.

Degradability:

**12.3 Bioaccumulative** No data available.

Potential:

12.4 Mobility in Soil: No data available.12.5 Results of PBT and vPvB No data available.

assessment:

**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 Transport in accordance with local, state, and federal regulations.

Information: 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)
112-61-8	Octadecanoic acid, Methyl ester	No	No	No
1731-94-8	methyl nonadecan-1-oate	No	No	No
1120-28-1	Eicosanoic acid, methyl ester	No	No	No
6064-90-0	methyl henicosaneate	No	No	No
929-77-1	Docosanoic acid, methyl ester	No	No	No
75-09-2	Dichloromethane	No	Yes 1000 LB	Yes

Multi-region format



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CAS#	Hazardous Components (Chemical Name)	Other US EPA or State Lists
112-61-8	Octadecanoic acid, Methyl ester	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
1731-94-8	methyl nonadecan-1-oate	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No
1120-28-1	Eicosanoic acid, methyl ester	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
6064-90-0	methyl henicosaneate	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No
929-77-1	Docosanoic acid, methyl ester	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; 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** 

This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)

Statement:

No.1272/2008.

# Section 16. Other Information

Revision Date:

12/16/2019

Additional Information About

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.