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according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008

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

1.1 Product Code: 62160

Product Name: 2-Arachidonoyl Glycerol

Synonyms: 5Z,8Z,11Z,14Z-eicosatetraenoic acid, 2-glyceryl ester; 2-AG;

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:

Flammable Liquids, Category 2

Acute Toxicity: Inhalation, Category 4
Acute Toxicity: Oral, Category 4
Acute Toxicity: Skin, Category 4

Serious Eye Damage/Eye Irritation, Category 2

2.2 Label Elements:





GHS Signal Word: Danger

GHS Hazard Phrases:

H225: Highly flammable liquid and vapor.

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

GHS Precaution Phrases:

P210: Keep away from {heat/sparks/open flames/hot surfaces}. - No smoking.

P261: Avoid breathing {dust/fume/gas/mist/vapours/spray}.

P264: Wash {hands} thoroughly after handling.

P280: Wear {protective gloves/protective clothing/eye protection/face protection}.

GHS Response Phrases:

P337+313: If eye irritation persists, get medical advice/attention.

P301+312: IF SWALLOWED: P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P302+352: IF ON SKIN: Wash with plenty of soap and water.

P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with

water/shower.



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P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P321: Specific treatment {see ... on this label}.

P330: Rinse mouth.

P362+364: Take off contaminated clothing and wash it before reuse.

GHS Storage and Disposal Phrases:

Please refer to Section 7 for Storage and Section 13 for Disposal information.

2.3 Adverse Human Health Can cause fatal cyanide poisoning.

Effects and Symptoms: Causes serious eye irritation.

Harmful if swallowed, inhaled, or absorbed through the skin.

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

May be fatal if swallowed, inhaled, or absorbed through the skin.

May cause skin or respiratory system irritation.

Several hours may elapse from exposure to onset of symptoms.

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
53847-30-6 JX3873500	2-Arachidonoyl glycerol	1.0 %	200-835-2 NA	No data available.
75-05-8 AL7700000	Acetonitrile	99.0 %	200-835-2 608-001-00-3	Flam. Liq. 2: H225 Acute Tox.(O) 4: H302 Acute Tox.(D) 4: H312 Eye Damage 2: H319 Acute Tox.(I) 4: H332

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.

4.2 Important Symptoms and Exposure may cause: asphyxia, cyanosis, depression, diarrhea, dizziness, drowsiness, excitement,

Effects, Both Acute and headache, impaired judgement, lack of coordination, nausea, rash, vomiting, stupor, death.

Delayed: Treat as cyanide poisoning. Always have on hand a cyanide first-aid kit, together with proper

instructions. The onset of symptoms is generally delayed pending conversion to cyanide.

Note for the Doctor: Acetonitrile is metabolized to cyanide. Patients with significant exposures must be observed for

signs of cyanide poisoning and treated accordingly.



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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 andCan release vapors that form explosive mixtures at temperatures at or above the flashpoint.

Hazards: Container explosion may occur under fire conditions.

Emits toxic fumes under fire conditions.

Sensitive to static discharge.

Vapors can travel to a source of ignition and flash back.

No data available.

Flash Pt: 2.00 C Method Used: Closed Cup

Explosive Limits: LEL: 3.0% at 25.0 C UEL: 16.0% at 25.0 C

Autoignition Pt: 524.00 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.

Note: Flammable as diluted in acetonitrile.

Section 6. Accidental Release Measures

6.1 Protective Precautions, Avoid breathing vapors 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 Avoid breathing dust/fume/gas/mist/vapours/spray.

in Handling: Avoid prolonged or repeated exposure.

Keep away from sources of ignition.

Take precautionary measures against static discharge.

7.2 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
75-05-8	Acetonitrile	ACGIH TLV	TLV: 20 ppm	
		Europe	TWA: 70 mg/m3 (40 ppm)	Skin Absorption
		France VL	TWA: 70 mg/m3 (40 ppm)	
			STEL: ()	
		OSHA PELs	PEL: 40 ppm	
		Britain EH40	TWA: 68 mg/m3 (40 ppm)	
			STEL: 102 mg/m3 (60 ppm)	



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8.2 Exposure Controls:

(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 acetonitrile

pH: No data.Melting Point: No data.Boiling Point: No data.

Flash Pt: 2.00 C Method Used: Closed Cup

Evaporation Rate: No data.

Flammability (solid, gas): No data available.

Explosive Limits: LEL: 3.0% at 25.0 C UEL: 16.0% at 25.0 C

Vapor Pressure (vs. Air or mm 73 MM_HG at 20.0 C

Hg):

Vapor Density (vs. Air = 1): No data.

Specific Gravity (Water = 1): No data.

Solubility in Water: No data.

Octanol/Water Partition No data.

Coefficient:

Autoignition Pt: 524.00 C

Decomposition Temperature: No data.

Viscosity: No data.

9.2 Other Information

Percent Volatile: No data.

Molecular Formula & Weight: C23H38O4 378.6



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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, flames and sparks

10.5 Incompatibility - Materials acids

> To Avoid: alkali metals

> > bases

oxidizing agents reducing agents carbon dioxide

10.6 **Hazardous**

> carbon monoxide **Decomposition or** hydrogen cyanide **Byproducts:**

> > nitrogen oxides

Section 11. Toxicological Information

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

Acetonitrile - Toxicity Data: Oral LD50 (rat): 2,460 mg/kg; Oral LD50 (mouse): 269 mg/kg; Oral **Toxicological Effects:**

LD50 (rabbit): 50 mg/kg; Oral TDLO (man): 64 mg/kg; Skin LD50 (rabbit): 980 mg/kg; Inhalation

TCLO (human): 160 ppm (4h); Inhalation LC50 (rat): 7,551 ppm (8h);

Acetonitrile - Irritation Data: Skin (rabbit) 500 mg mild; Eye (rabbit): 100 µl (24 hr) moderate; 2-Arachidonoyl Glycerol - Toxicity Data: Intraperitoneal TDLO (mouse): 50 mg/kg; Subcutaneous

TDLO (rat): 1 ug/kg;

Chronic Toxicological

Acetonitrile - Investigated as a mutagen, reproductive effector, and tumorigen.

Effects:

2-Arachidonoyl Glycerol - Investigated as a drug.

Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.

See actual entry in RTECS for complete information.

Acetonitrile RTECS Number: AL7700000

2-Arachidonoyl Glycerol RTECS Number: JX3873500

NTP? No IARC Monographs? No OSHA Regulated? No Carcinogenicity:

CAS#	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
53847-30-6	2-Arachidonoyl glycerol	n.a.	n.a.	n.a.	n.a.
75-05-8	Acetonitrile	n.a.	n.a.	A4	n.a.

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:

Other adverse effects: No data available.



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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: Acetonitrile Solution

DOT Hazard Class: 3 FLAMMABLE LIQUID

UN/NA Number: 1648 Packing Group: II



14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Acetonitrile Solution

UN Number: 1648 Packing Group: II

Hazard Class: 3 - FLAMMABLE LIQUID

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Acetonitrile Solution

UN Number: 1648 Packing Group: II
Hazard Class: 3 - FLAMMABLE LIQUID IATA Classification: 3

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)
53847-30-6	2-Arachidonoyl glycerol	No	No	No
75-05-8	Acetonitrile	No	Yes 5000 LB	Yes

CAS#	Hazardous Components (Chemical Name)	Other US EPA or State Lists
53847-30-6	2-Arachidonoyl glycerol	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No
75-05-8	Acetonitrile	CAA HAP,ODC: HAP; CWA NPDES: No; TSCA: Yes - Inventory, 8A PAIR; CA PROP.65: No

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

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Section 16. Other Information

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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.