

## Safety Data Sheet

acc. to OSHA HCS

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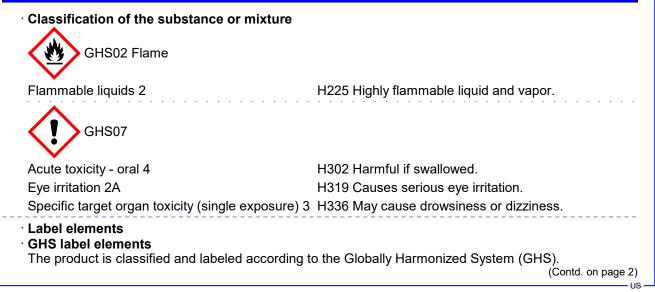
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## 1 Identification

- Product identifier
- · Trade name: 1,2-Dieicosapentaenoyl-3-Palmitoyl-rac-glycerol
- · Synonym
- (5'Z,8'Ž,11'Z,14'Z,17'Z)-5Z,8Z,11Z,14Z,17Z-eicosapentaenoic acid, 1,1'-[1-[[(1-oxohexadecyl)oxy] methyl]-1,2-ethanediyl] ester
- · Other means of identification
- Article number: 26822
   Application of the substance / the mixture This product is for research use - Not for human or veterinary diagnostic or therapeutic use.
- Details of the supplier of the safety data sheet
   Manufacturer/Supplier:
- Cayman Chemical Co. 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 USA
- · Information department: Product safety department
- Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970

## 2 Hazard(s) identification



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Hazard pictogr	ams
$\land$	
< <u>**</u> >< 1	
GHS02 GHS0	)7
Signal word Da	inger
	ining components of labeling:
Methyl acetate	
Hazard stateme	
	nmable liquid and vapor.
H302 Harmful if	
	erious eye irritation.
	e drowsiness or dizziness.
Precautionary s	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sourc
	No smoking.
P240	Ground / bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting] equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hear
	protection.
P301+P312	If swallowed: Call a poison center/doctor if you feel unwell.
P330	Rinse mouth.
P303+P361+P3	53 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin v
	water [or shower].
P304+P340	If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P3	38 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use CO2, powder or water spray to extinguish.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/internatic regulations.
Information po	rtaining to particular dangers for man and environment:
Classification s	
NFPA ratings (	5cale U - 4)



· HMIS-ratings (scale 0 - 4)

HEALTH 2	Health = 2
	Fire = 3
REACTIVITY 0	Reactivity = 0

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· Other hazards

- Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- Classification according to (d)(1)(ii) of § 1910.1200

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

· Hazards not otherwise classified

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

### **3 Composition/information on ingredients**

- · Chemical characterization: Mixtures
- **Description:** Mixture of the substances listed below with nonhazardous additions.

### · Dangerous components:

CAS: 79-20-9 Methyl acetate

RTECS: AI9100000

### Other ingredients

115433-29-9 1,2-Dieicosapentaenoyl-3-Palmitoyl-rac-glycerol

1.0%

99.0%

## **4 First-aid measures**

- · Description of first aid measures
- General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- After swallowing: Immediately call a doctor.
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

## **5 Fire-fighting measures**

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • For safety reasons unsuitable extinguishing agents: Water with full jet

- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

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Wear pro	I precautions, protective equipment and emergency procedures otective equipment. Keep unprotected persons away.	
	mental precautions: Do not allow to enter sewers/ surface or ground water. and material for containment and cleaning up:	
Absorb w	rith liquid-binding material (sand, diatomite, acid binders, universal binders, sawdu	ist).
	contaminated material as waste according to section 13. dequate ventilation.	
	ve Action Criteria for Chemicals	
· PAC-1:		
79-20-9	Methyl acetate	250 ppm
· PAC-2:		
79-20-9	Methyl acetate	1,700 ppm
· PAC-3:		
79-20-9	Methyl acetate	10000* ppm
	ce to other sections	
See Sect	ion 7 for information on safe handling. ion 8 for information on personal protection equipment.	

## 7 Handling and storage

- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
- · Conditions for safe storage, including any incompatibilities
- Storage: Store in accordance with information listed on the product insert.
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.
- Specific end use(s) No further relevant information available.

## 8 Exposure controls/personal protection

· Control parameters

Components with limit values that require monitoring at the workplace:

### 79-20-9 Methyl acetate

- PEL Long-term value: 610 mg/m<sup>3</sup>, 200 ppm
- REL Short-term value: 760 mg/m<sup>3</sup>, 250 ppm Long-term value: 610 mg/m<sup>3</sup>, 200 ppm
- TLV Short-term value: 250 ppm
  - Long-term value: 200 ppm

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- Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
- · Appropriate engineering controls No further data; see section 7.
- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes. Avoid contact with the eyes and skin.

#### · Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

## 9 Physical and chemical properties

<ul> <li>Information on basic physical and ch</li> <li>General Information</li> </ul>	iennear properties
· Physical state	Liquid
· Color:	Not determined.
· Odor:	Pleasant
· Structural Formula	C59H94O6
· Molecular Weight	899.4 g/mol
· Storage Buffer	-
· Odor threshold:	Not determined.
· Formulation	A solution in methyl acetate
<ul> <li>Melting point/Melting range:</li> </ul>	-98 °C (-144.4 °F)
· Boiling point/Boiling range:	57 °C (134.6 °F)

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· Flammability:	Highly flammable.
• Explosion limits:	
· Lower:	3.1 Vol %
· Upper:	16 Vol %
Flash point:	-13 °C (8.6 °F)
Auto igniting:	454 °C (849.2 °F)
· Decomposition temperature:	Not determined.
· pH-value:	Not determined.
· Viscosity:	
· Kinematic:	Not determined.
·SOLUBILITY	DMF: 10 mg/ml; Ethanol: 10 mg/ml; Ethanol:PBS(pH
	7.2) (1:1): 0.5 mg/ml
<sup>.</sup> Dynamic at 20 °C (68 °F):	0.381 mPas
Solubility in / Miscibility with	
Water at 20 °C (68 °F):	330 g/l
<ul> <li>Partition coefficient (n-octanol/water):</li> </ul>	Not determined.
· Vapor pressure at 20 °C (68 °F):	220 hPa (165 mm Hg)
· Vapor pressure at 50 °C (122 °F):	800 hPa (600 mm Hg)
<sup>.</sup> Density at 20 °C (68 °F):	0.93 g/cm³ (7.76085 lbs/gal)
Relative density	Not determined.
<sup>·</sup> Bulk density:	1 kg/m³
<sup>·</sup> Vapor density	Not determined.
<ul> <li>Particle characteristics</li> </ul>	Not applicable.
· Other information	
· Appearance:	
· Form:	Liquid
<ul> <li>Important information on protection of hea</li> </ul>	lth
and environment, and on safety.	
<ul> <li>Ignition temperature:</li> </ul>	Product is not selfigniting.
<ul> <li>Danger of explosion:</li> </ul>	Product is not explosive. However, formation of
	explosive air/vapor mixtures are possible.
Solvent content:	
Organic solvents:	99.0 %
· VOC content:	0.00 %
	0.0 g/l / 0.00 lb/gal
Solids content:	1.0 %
Change in condition	
· Evaporation rate	Not determined.

## 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- · Incompatible materials: oxidizing agents
- · Hazardous decomposition products: carbon dioxide, carbon monoxide

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• Acute to	on on toxicological effects cicity:
	values that are relevant for classification:
	lethyl acetate
Oral Inhalative	LD50 6,482 mg/kg (rat) LC50/4 h >49.2 mg/l (rabbit)
• on the sk • on the ey • Sensitiza • Additiona The prod preparation Harmful Irritant	rritant effect: in: No irritant effect. e: Irritating effect. tion: No sensitizing effects known. al toxicological information: uct shows the following dangers according to internally approved calculation methods ins: e effects No interactive effects between components are known.
· Carcinog	enic categories
•	ernational Agency for Research on Cancer)
None of t	ne ingredients is listed.
· NTP (Nat	ional Toxicology Program)
None of t	ne ingredients is listed.
· OSHA-Ca	(Occupational Safety & Health Administration)
None of t	ne ingredients is listed.
	<b>ve sources for toxicological information</b> andard sources for toxicological information where used.
<mark>Ecolog</mark>	cal information
Aquatic t Persister Bioaccur Mobility Results o PBT: Not	oxicity: No further relevant information available. Ince and degradability No further relevant information available. Inulative potential No further relevant information available. In soil No further relevant information available. If PBT and vPvB assessment applicable. It applicable. It applicable.

- · Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. US

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## **13 Disposal considerations**

### · Waste treatment methods

## · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

### · Uncleaned packagings:

• **Recommendation:** Disposal must be made according to official regulations.

UN-Number DOT, IMDG, IATA	UN1231	
UN proper shipping name DOT, IATA IMDG	Methyl acetate solution METHYL ACETATE solution	
Transport hazard class(es)		
DOT		
RAMARE LODO		
Class	3 Flammable liquids	
Label	3	
IMDG, IATA		
Class	3 Flammable liquids	
Label	3	
Packing group DOT, IMDG, IATA	II	
Environmental hazards:	Not applicable.	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.	
Transport/Additional information:		
DOT Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L	
IMDG Limited quantities (LQ)	1L	

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· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· IATA · Remarks:	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.
<ul> <li>Special precautions for user</li> <li>Hazard identification number (Kemler</li> <li>EMS Number:</li> <li>Stowage Category</li> </ul>	Warning: Flammable liquids code): 33 F-E,S-D B
· UN "Model Regulation":	UN 1231 METHYL ACETATE SOLUTION, 3, II

## **15 Regulatory information**

 Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
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· Sara	
<ul> <li>Section 355 (extremely hazardous substances):</li> </ul>	
None of the ingredients is listed.	
· Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
· TSCA (Toxic Substances Control Act):	
79-20-9 Methyl acetate	ACTIVE
· Hazardous Air Pollutants	
None of the ingredients is listed.	
· Chemicals known to cause cancer:	
None of the ingredients is listed.	
· Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
· Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
· Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
· TLV (Threshold Limit Value)	
None of the ingredients is listed.	
• NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	
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#### • Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **16 Other information**

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

- · Department issuing SDS: Environment protection department.
- · Contact: -
- Date of previous version 04/15/2022
- Date of preparation 01/29/2025
- Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent. Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety **OSHA: Occupational Safety & Health** TLV: Threshold Limit Value PEL: Permissible Exposure Limit **REL: Recommended Exposure Limit** Flammable liquids 2: Flammable liquids - Category 2 Acute toxicity - oral 4: Acute toxicity - Category 4 Eye irritation 2A: Serious eye damage/eye irritation - Category 2A Specific target organ toxicity (single exposure) 3: Specific target organ toxicity (single exposure) - Category 3 \* \* Data compared to the previous version altered.