

Printing date 03/13/2023

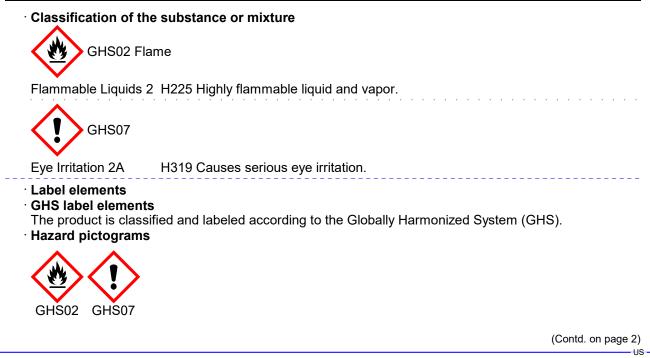
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## **1** Identification

- Product identifier
- · Trade name: Myristic Acid ethyl ester
- · Article number: 10008197
- **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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# Trade name: Myristic Acid ethyl ester

regulations. • Classification system: • NFPA ratings (scale 0 - 4) • Health = 2 Fire = 3 Reactivity = 0 • HMIS-ratings (scale 0 - 4) HEALTH 2 Health = 2 Fire = 3 Reactivity = 0 • Other hazards • Results of PBT and vPvB assessment • PBT: Not applicable. • vPvB: Not applicable. • vPvB: Not applicable. • Chemical characterization: Mixtures • Description: Mixture of the substances listed below with nonhazardous additions.	<b>O</b> lamatics and D	(Contd. from page 1
H225 Highly flammable liquid and vapor. H319 Causes serious eye irritation. Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P264 Wash thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin 1 water/shower. P305+P351+P358 If in eyes: Rinse cautiously with water for several minutes. Remove contact lense present and easy to do. Continue rinsing. P337+P378 In case of fire: Use CO2, powder or water spray to extinguish. P303+P235 Store in a well-ventilated place. Keep cool. P501 Dispose of contents/container in accordance with local/regional/national/internation regulations. <b>Classification system:</b> NFPA ratings (scale 0 - 4) Health = 2 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) Health = 2 Fire = 3 Reactivity = 0 <b>Other hazards</b> Reactivity = 0 <b>Other hazards</b> <b>Results of PBT and vPvB assessment</b> <b>PBT:</b> Not applicable. <b>3Composition/information on ingredients</b> <b>Chemical characterization: Mixtures</b> <b>bescription:</b> Mixture of the substances listed below with nonhazardous additions.		
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•		
· Dangerous components:	•	

 · Dangerous components:

 CAS: 64-17-5
 ethanol
 50.0%

 RTECS: KQ6300000
 50.0%
 50.0%

 · Other ingredients
 50.0%

 124-06-1
 Myristic Acid ethyl ester
 50.0%

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#### Trade name: Myristic Acid ethyl ester

(Contd. from page 2)

## **4 First-aid measures**

- Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · 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: If symptoms persist consult doctor.
- Information for 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.

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

## 6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
  Wear protective equipment. Keep unprotected persons away.
   Environmental precautions:
  Dilute with plenty of water.
  Do not allow to enter sewers/ surface or ground water.
   Methods and material for containment and cleaning up:
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  Dispose contaminated material as waste according to item 13.
- Ensure adequate ventilation. • Reference to other sections See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.
- Protective Action Criteria for Chemicals

1,800 ppm
3300* ppm
15000* ppm

(Contd. on page 4)

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### Trade name: Myristic Acid ethyl ester

(Contd. from page 3)

## 7 Handling and storage

- · Handling:
- Precautions for safe handling
- No special precautions are necessary if used correctly. Avoid breathing dust/fume/gas/mist/vapours/spray.
- Avoid prolonged or repeated exposure.
- Keep away from sources of ignition.
- Take precautionary measures against static discharge.re.
- 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

· Additional information about design of technical systems: No further data; see item 7.

Control parameters

· Components with limit values that require monitoring at the workplace:

### 64-17-5 ethanol

PEL Long-term value: 1900 mg/m<sup>3</sup>, 1000 ppm

- REL Long-term value: 1900 mg/m<sup>3</sup>, 1000 ppm
- TLV Short-term value: 1000 ppm A3

• Additional information: The lists that were valid during the creation were used as basis.

- · Exposure controls
- 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: Not required.
- · 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.

(Contd. on page 5)

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(Contd. from page 4) 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 General Information</li> </ul>	chemical properties
<ul> <li>Appearance: Form: Color:</li> <li>Odor:</li> <li>Structural Formula</li> <li>Molecular Weight</li> <li>Odor threshold:</li> <li>Formulation</li> </ul>	Liquid According to product specification Characteristic C16H32O2 256.4 g/mol Not determined. A solution in ethanol
· pH-value:	Not determined.
<ul> <li>Change in condition</li> <li>Melting point/Melting range:</li> <li>Boiling point/Boiling range:</li> </ul>	Undetermined. 78 °C (172.4 °F)
· Flash point:	13 °C (55.4 °F)
· Flammability (solid, gaseous):	Highly flammable.
· Auto igniting:	425 °C (797 °F)
· Decomposition temperature:	Not determined.
· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/ vapor mixtures are possible.
· Explosion limits: Lower: Upper:	3.5 Vol % 15 Vol %
· Vapor pressure at 20 °C (68 °F):	59 hPa (44.3 mm Hg)
· Density at 20 °C (68 °F):	0.826 g/cm³ (6.89297 lbs/gal)
· Bulk density:	826 kg/m³

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· Relative density	Not determined.
· Vapor density	Not determined.
<ul> <li>Evaporation rate</li> </ul>	Not determined.
· Solubility in / Miscibility with	
Water:	Fully miscible.
· Partition coefficient (n-octanol/v	water): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
SOLUBILITY	DMF: 30 mg/ml; DMSO: 20 mg/ml; Ethanol: 30 mg/ml
· Solvent content:	
Organic solvents:	50.0 %
VOC content:	50.00 %
	413.0 g/l / 3.45 lb/gal
Solids content:	0.0 %
· Other information	No further relevant information available.

# 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: strong oxidizing agents
- · Hazardous decomposition products: carbon dioxide, carbon monoxide

# **11 Toxicological information**

· Information on toxicological effects

## · Acute toxicity:

· LD/LC50 values that are relevant for classification:				
64-17-5 ethano	l			
Oral	TDLO	1.14 ml/kg (man)		
	LD50	7,060 mg/kg (rat)		
	TDLO	650 (man)		
Dermal	LD50	40,000 mg/kg (rat)		
Inhalative	TCLO	1,800 (hmn)		
	LC50	10 h - 20,000 mg/m³ (rat)		
	LD50 Inhalation TCLO	1,800 mg/m³/30m (hmn)		
Irritation of skin	TDLO	1,800 mg/kg (wmn)		
	Intraperitoneal LD50	280 mg/kg (rat)		
Primary irritant	effect:			

· on the skin: No irritant effect.

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- · on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

- Irritant
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)
- 64-17-5 ethanol

## · NTP (National Toxicology Program)

None of the ingredients is listed.

- · OSHA-Ca (Occupational Safety & Health Administration)
- None of the ingredients is listed.

## **12 Ecological information**

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 2 (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- Other adverse effects No further relevant information available.

## **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.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

## **14 Transport information**

- · UN-Number
- · DOT, IMDG, IATA

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· UN proper shipping name · DOT · IMDG	Ethanol solutions ETHANOL SOLUTION (ETHYL ALCOHO SOLUTION)
ΙΑΤΑ	Ethanol solution
· Transport hazard class(es)	
DOT	
RAMIRE COO	
· Class · Label	3 Flammable liquids 3
· IMDG, IATA	
· Class	3 Flammable liquids
Label	3
· Packing group · DOT, IMDG, IATA	11
Environmental hazards:	Not applicable.
<ul> <li>Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> <li>EMS Number:</li> <li>Stowage Category</li> </ul>	Warning: Flammable liquids : 33 F-E,S-D A
	<u></u>
<ul> <li>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</li> </ul>	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
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
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· 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.
· UN "Model Regulation":	UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, II

# **15 Regulatory information**

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

Section 355 (extremely hazardous substances):

None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

• TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

### · Hazardous Air Pollutants

None of the ingredients is listed.

### · Proposition 65

· 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:

64-17-5 ethanol

## · Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

64-17-5 ethanol

## A3

## · NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· 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

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(Contd. from page 9) 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.
<ul> <li>Department issuing SDS: Environment protection department.</li> <li>Contact: -</li> <li>Date of preparation / last revision 03/13/2023</li> <li>Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: 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) LCS0: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent DS0: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPVB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety &amp; Health TuC: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit REL: Recommended Exposure Limit REL: Recommended Exposure Limit Flammable Liquids 2: Flammable liquids – Category 2 Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A</li></ul>