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Safety Data Sheet acc. to OSHA HCS

Printing date 06/06/2021

Revision date 06/06/2021

1 Identification

Product identifier

- · Trade name: Lipoxin A4
- Synonym 5S,6R,15S-trihydroxy-7E,9E,11Z,13E-eicosatetraenoic acid; 5(S),6(R),15(S)-TriHETE; LXA4
- · Article number: 90410, 007461

• Application of the substance / the mixture This product is for research use - Not for human or veterinary diagnostic or therapeutic use. It is the responsibility of the purchaser to determine suitability for other applications.

- 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

· Classification of the substance or mixture



Flam. Liq. 2 H225 Highly flammable liquid and vapor.

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



- · Signal word Danger
- · Hazard statements

H225 Highly flammable liquid and vapor.

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.

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(Contd. from page 1) 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 with water/shower.
P370+P378 In case of fire: Use for extinction: CO2, powder or water spray. P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
· Classification system: · NFPA ratings (scale 0 - 4)
$\begin{array}{c} 3 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$
· HMIS-ratings (scale 0 - 4)
HEALTHImage: DescriptionFIRE3Fire = 3REACTIVITYReactivity = 0
• Other hazards
 Results of PBT and vPvB assessment PBT: Not applicable.
· vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

• **Description:** Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 64-17-5 Ethyl alcohol RTECS: KQ6300000

· Other ingredients

CAS: 89663-86-5 Lipoxin A4 RTECS: JX3879000

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.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

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119

99.99%

0.01%

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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
- Can release vapors that form explosive mixtures at temperatures at or above the flashpoint.
- 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.
- · 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, sawdu	st).
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	
· PAC-1:	
64-17-5 Ethyl alcohol	1,800 ppm
· PAC-2:	
64-17-5 Ethyl alcohol	3300* ppm
· PAC-3:	
64-17-5 Ethyl alcohol	15000* ppm

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.

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- Conditions for safe storage, including any incompatibilities
- · Storage:
- 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 Ethyl alcohol

PEL Long-term value: 1900 mg/m³, 1000 ppm

REL Long-term value: 1900 mg/m³, 1000 ppm

TLV Short-term value: 1880 mg/m³, 1000 ppm

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

Exposure controls

- Personal protective equipment:
- General protective and hygienic measures: Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.
- 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.

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.

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• Eye protection:



Tightly sealed goggles

9 Physical and chemical properties · Information on basic physical and chemical properties General Information · Appearance: Form: Liquid Color: According to product specification · Odor: Characteristic · Structural Formula C20H32O5 · Molecular Weight 352.5 · Odor threshold: Not determined. · Formulation A solution in ethanol · pH-value: Not determined. · Change in condition Melting point/Melting range: -114.5 °C (-174.1 °F) **Boiling point/Boiling range:** 78 °C (172.4 °F) · Flash point: 13 °C (55.4 °F) · Flammability (solid, gaseous): Not applicable. 425 °C (797 °F) · Ignition temperature: Decomposition temperature: Not determined. · Auto igniting: Product is not selfigniting. Danger of explosion: Product is not explosive. However, formation of explosive air/ vapor mixtures are possible. · Explosion limits: Lower: 3.5 Vol % 15 Vol % Upper: · Vapor pressure at 20 °C (68 °F): 59 hPa (44.3 mm Hg) Density at 20 °C (68 °F): 0.79 g/cm3 (6.59255 lbs/gal) Relative density Not determined. · Vapor density Not determined. · Evaporation rate Not determined. · Solubility in / Miscibility with Water at 20 °C (68 °F): 1,000 g/l · Partition coefficient (n-octanol/water): Not determined. · Viscositv: Dynamic at 20 °C (68 °F): 1.2 mPas **Kinematic:** Not determined. (Contd. on page 6)

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100.0 % 99.99 % 999.9 g/l / 8.34 lb/gal
0.0 %
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: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

64-17-5 Ethyl al	cohol	
Oral	TDLO	1.14 ml/kg (man)
	LD50	7,060 mg/kg (rat)
	TDLO	650 (man)
Dermal	LD50	40,000 mg/kg (rat)
Inhalative	LC50/4 h	5,900 mg/m³ (rat)
	LC50	20,000 mg/m³/10h (rat)
	TCLO	1,800 mg/m³/30m (hmn)
	LCLO	29,300 mg/m³/7h (mouse)
	TCLO	1,800 (hmn)
	LC50	10 h - 20,000 mg/m³ (rat)
	LD50 Inhalation TCLO	1,800 mg/m³/30m (hmn)
	LC50/4 h	20,000 mg/l (rat)
Irritation of skin	Irritation	20 mg/24h (rabbit)
	TDLO	1,800 mg/kg (wmn)
Irritation of eyes	Irritation	500 mg/24h (rabbit)
	Intraperitoneal LD50	280 mg/kg (rat)
	Data	500 mg/24h (rabbit)

• on the skin: No irritant effect.

· on the eye: No irritating effect.

· Sensitization: No sensitizing effects known.

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• Additional toxicological information:

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

64-17-5 Ethyl alcohol

· 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 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.

- 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.

UN-Number	
DOT, IMDG, IATA	UN1170
UN proper shipping name	
DOT	Ethanol solutions
IMDG	ETHANOL SOLUTION (ETHYL ALCOHO
	SOLUTION)
ΙΑΤΑ	Ethanol solution

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 Transport hazard class(es) 	
DOT	
RAMTABLE LOUD	
· Class · Label	3 Flammable liquids 3
· IMDG, IATA	
A	
Class	3 Flammable liquids
Label	3
· Packing group · DOT, IMDG, IATA	
Environmental hazards:	 Not emplicable
	Not applicable.
 Special precautions for user Hazard identification number (Kemler code 	Warning: Flammable liquids): 33
EMS Number:	F-E,S-D
Stowage Category	A
 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
Excepted quantities (EQ)	Code: E2 Maximum pat quantity par inpar paakaging: 20 ml
	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.
· UN "Model Regulation":	UN 1170 ETHANOL SOLUTION (ETHYL ALCOHO)
	SOLUTION), 3, II

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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): 64-17-5 [Ethyl alcohol ACTIV 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 [Ethyl alcohol Carcinogenic categories EPA (Environmental Protection Agency) None of the ingredients is listed. TLV (Threshold Limit Value) 64-17-5 [Ethyl alcohol	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): 64-17-5 Ethyl alcohol 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 Ethyl alcohol Carcinogenic categories EPA (Environmental Protection Agency) None of the ingredients is listed.	Regulatory information	
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Chemicals known to cause developmental toxicity: 64-17-5 Ethyl alcohol Carcinogenic categories EPA (Environmental Protection Agency) None of the ingredients is listed. TLV (Threshold Limit Value) 64-17-5 Ethyl alcohol	Chemicals known to cause developmental toxicity: 64-17-5 Ethyl alcohol Carcinogenic categories EPA (Environmental Protection Agency) None of the ingredients is listed. TLV (Threshold Limit Value) 64-17-5 Ethyl alcohol A: NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed.	Chemicals known to cause reproductive toxicity for males:	
64-17-5 Ethyl alcohol Carcinogenic categories EPA (Environmental Protection Agency) None of the ingredients is listed. TLV (Threshold Limit Value) 64-17-5 Ethyl alcohol	64-17-5 Ethyl alcohol Carcinogenic categories EPA (Environmental Protection Agency) None of the ingredients is listed. TLV (Threshold Limit Value) 64-17-5 Ethyl alcohol A3 NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed.	None of the ingredients is listed.	
Carcinogenic categories EPA (Environmental Protection Agency) None of the ingredients is listed. TLV (Threshold Limit Value) 64-17-5 Ethyl alcohol	Carcinogenic categories EPA (Environmental Protection Agency) None of the ingredients is listed. TLV (Threshold Limit Value) 64-17-5 Ethyl alcohol NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed.	· Chemicals known to cause developmental toxicity:	
EPA (Environmental Protection Agency) None of the ingredients is listed. TLV (Threshold Limit Value) 64-17-5 Ethyl alcohol	EPA (Environmental Protection Agency) None of the ingredients is listed. TLV (Threshold Limit Value) 64-17-5 Ethyl alcohol NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed.	64-17-5 Ethyl alcohol	
None of the ingredients is listed. TLV (Threshold Limit Value) 64-17-5 Ethyl alcohol	None of the ingredients is listed. TLV (Threshold Limit Value) 64-17-5 Ethyl alcohol NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed.	· Carcinogenic categories	
TLV (Threshold Limit Value) 64-17-5 Ethyl alcohol <i>F</i>	TLV (Threshold Limit Value) 64-17-5 Ethyl alcohol NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed.	· EPA (Environmental Protection Agency)	
64-17-5 Ethyl alcohol	64-17-5 Ethyl alcohol A3 NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed.	None of the ingredients is listed.	
	NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed.	· TLV (Threshold Limit Value)	
NIOSH-Ca (National Institute for Occupational Safety and Health)	None of the ingredients is listed.	64-17-5 Ethyl alcohol	A
	5	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	None of the ingredients is listed.	

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 preparation / last revision 06/06/2021 / -
- Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation

Printing date 06/06/2021

Revision date 06/06/2021

(Contd. from page 9)

US

Trade name: Lipoxin A4

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 D50: 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 Flam. Liq. 2: Flammable liquids – Category 2 • * Data compared to the previous version altered.