

Safety Data Sheet

Issuing date no data available Revision Date 13-Jul-2015 Version 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product name Leukotriene E4

UN/ID No 1230

Recommended use For research use only

Supplier Address Abcam Inc

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LISA

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EST

2. HAZARDS IDENTIFICATION

GHS - Classification

Acute oral toxicity	Category 3
Acute dermal toxicity	Category 3
Acute inhalation toxicity - vapor	Category 2
Specific target organ systemic toxicity (single exposure)	Category 1
Flammable liquids	Category 2

GHS Label elements, including precautionary statements



Signal Word Danger

Hazard statements

H225 - Highly flammable liquid and vapor

H301 - Toxic if swallowed

H311 - Toxic in contact with skin

H330 - Fatal if inhaled

H370 - Causes damage to organs

Precautionary Statements - EU (§28, 1272/2008)

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician

P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing

P370 + P378 - In case of fire: Use foam for extinction

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P307 + P311 - IF exposed: Call a POISON CENTER or doctor/ physician

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

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P280 - Wear protective gloves/ eye protection/ face protection

P284 - Wear respiratory protection

P361 - Remove/Take off immediately all contaminated clothing

P264 - Wash face, hands and any exposed skin thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P271 - Use only outdoors or in a well-ventilated area

P403 + P235 - Store in a well-ventilated place. Keep cool

P233 - Keep container tightly closed

P330 - Rinse mouth

P501 - Dispose of contents/ container to an approved waste disposal plant

P405 - Store locked up

P363 - Wash contaminated clothing before reuse

Other information

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical Name	CAS-No	Weight %	Classification (Reg. 1272/2008)
Methanol	67-56-1	30-60	Flam Liq. 1 (H224)
			Acute Tox. 3 (H301)
			Acute Tox. 3 (H311)
			Acute Tox. 2 (H330)
			STOT SE 1 (H370)

For the full text of the H-Statements mentioned in this Section, see Section 16

4. FIRST AID MEASURES

General advice Immediate medical attention is required.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes.

Skin contactWash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. If symptoms persist, call a physician.

Inhalation Move to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth

resuscitation. Call a physician or poison control center immediately.

Ingestion Rinse mouth. Do not induce vomiting without medical advice. If symptoms persist, call a

physician.

Notes to physician Treat symptomatically.

Protection of first-aiders

Use personal protective equipment. Ensure that medical personnel are aware of the

material(s) involved, and take precautions to protect themselves.

5. FIRE-FIGHTING MEASURES

Flammable properties HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.

Flash point not determined

Suitable extinguishing media Water spray. Alcohol-resistant foam. Dry chemical.

Explosion Data

Sensitivity to Mechanical Impact Sensitivity to Static Discharge none.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH

(approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautionsUse personal protective equipment. Avoid contact with skin, eyes and inhalation of vapors.

Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from

and upwind of spill/leak.

Environmental precautionsTry to prevent the material from entering drains or water courses.

Methods for containment Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or

tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.

Methods for cleaning up Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal

binder, sawdust). Pick up and transfer to properly labeled containers. \\

Other information Refer to protective measures listed in sections 7 and 8.

7. HANDLING AND STORAGE

Advice on safe handling Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Use only in

area provided with appropriate exhaust ventilation. Prevent the formation of vapors, mists and aerosols. Keep away from open flames, hot surfaces and sources of ignition. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing

before re-use.

Technical measures/Storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep in properly labeled containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methanol	STEL: 250 ppm	TWA: 200 ppm TWA: 260 mg/m ³	IDLH: 6000 ppm
67-56-1	TWA: 200 ppm	(vacated) TWA: 200 ppm	TWA: 200 ppm TWA: 260 mg/m ³
	S*	(vacated) TWA: 260 mg/m ³	STEL: 250 ppm STEL: 325 mg/m ³
		(vacated) STEL: 250 ppm	
		(vacated) STEL: 325 mg/m ³	
		(vacated) S*	

Engineering measures Showers

Eyewash stations Ventilation systems

Personal protective equipment

Eye/face protection Skin and body protection Respiratory protection Tightly fitting safety goggles.

No special protective equipment required.

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

Hygiene measures

When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing. Wash hands before breaks and immediately after handling the product. Keep away from food, drink and animal feeding stuffs.

9. PHYSICAL AND CHEMICAL PROPERTIES

No information available. No information available. **Appearance** Odor **Odor Threshold** No information available Liquid Physical State @20°C рΗ No information available No information available No information available Flash point **Autoignition temperature** No information available Boiling point/boiling range No information available **Decomposition temperature** No information available Melting point/range Flammability Limits in Air No information available **Explosion limits** No information available **Specific Gravity** no data available solubility No information available. **Evaporation rate** No information available Vapor density no data available VOC Content(%) 100

10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions.

Incompatible products

None known based on information supplied.

Conditions to avoid None known based on information supplied.

Hazardous decomposition products Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrogen oxides (NOx). Sulfur oxides.

Hazardous polymerization Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product Information Toxic by inhalation, in contact with skin and/or if swallowed

Inhalation Toxic by inhalation

Skin contact Toxic in contact with skin

Ingestion Toxic if swallowed

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Methanol	5,628 mg/kg (Rat)	15,800 mg/kg (Rabbit)	64,000 ppm (84 mg/l) (Rat, 4 h)

Chronic toxicity

Target Organ Effects Central nervous system (CNS). Eyes. Gastrointestinal tract (GI). Respiratory system. Skin.

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to algae	Toxicity	to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
Methanol	EC50 (Static) Selenastrum capricornutum (Green algae): 22,000 mg/l (96 h)	LC50 (Flow Pimephales (Fathead 28,200 m	s <i>promelas</i> minnow):	EC0 Pseudomonas putida (Bacteria): 6,600 mg/l (16 h)	EC50 Daphnia magna (Water flea): > 10,000 mg/l (24 h)
	LOEC (Static) Scenedesmus quadricauda (Green algae): 8,000 mg/l (8 d)	LC50 (Pimephales (Fathead 100 mg/	s <i>promelas</i> minnow):	EC50 Photobacterium phosphoreum: 43,000 mg/l (5 min)	
		LC50 (Flow Oncorhynci (Rainbow 20,100 m	hus mykiss w trout):	EC50 Photobacterium phosphoreum: 40,000 mg/l (15 min)	
		LC50 (Oncorhynci (rainbov 19 mg/l LC	hus mykiss v trout):	EC50 Photobacterium phosphoreum: 39,000 mg/l (25 min)	
		LC50 (Flow Lepomis m (Bluegill : 15,400 m	acrochirus sunfish):	EC50 Entosiphon sulcatum (Protozoa): > 10,000 mg/l	
		LC50 (Lepomis m (Bluegill : 1,000 mg	acrochirus sunfish):		
	Chemical Name Methanol			log Pow -0.77	

13. DISPOSAL CONSIDERATIONS

Waste disposal methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated packaging

Do not re-use empty containers.

US EPA Waste Number

U154

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Methanol - 67-56-1		Included in waste stream:		U154
		F039		

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Methanol	Toxic Ignitable

14. TRANSPORT INFORMATION

DOT Excepted Quantity

Proper shipping nameMethanolHazard class3 (6.1)UN/ID No1230Packing groupII

IATA Excepted Quantity

UN/ID No 1230
Proper shipping name Methanol
Hazard class 3 (6.1)
Packing group II

ADR Excepted Quantity

Proper shipping nameMethanolHazard class3 (6.1)UN/ID No1230Packing groupII

15. REGULATORY INFORMATION

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Methanol	67-56-1	100	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	yes
Chronic Health Hazard	no
Fire Hazard	no
Sudden Release of Pressure Ha	azard no
Reactive Hazard	no

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Methanol	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Methanol	X	X	Χ	X	X

International Regulations

Chemical Name	Carcinogen Status	Exposure limits
Methanol		Mexico: TWA 200 ppm Mexico: TWA 260
		mg/m³
		Mexico: STEL 250 ppm Mexico: STEL 310
		mg/m³

WHMIS Note:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H225 - Highly flammable liquid and vapor H301 - Toxic if swallowed H311 - Toxic in contact with skin H330 - Fatal if inhaled H370 - Causes damage to organs

Hazard statements

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Revision Date 13-Jul-2015

Revision Note No information available.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of MSDS
