

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1 Product identifiers**

Product Name: Leukotriene B<sub>4</sub>  
Catalog Number: 2307  
CAS Number: 71160-24-2  
IUPAC Name: (5S,6Z,8E,10E,12R,14Z)-5,12-Dihydroxy-6,8,10,14-eicosatetraenoic acid

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Identified Uses: Laboratory chemicals, Manufacture of substances

**1.3 Details of the supplier of the safety data sheet**

Company:	Tocris Bioscience	Telephone:	+ 44 (0)117 916-3333
	The Watkins Building,	Fax:	+ 44 (0)117 916-3344
	Atlantic Road,	Internet:	<a href="http://www.tocris.com">www.tocris.com</a>
	Bristol, BS11 9QD, UK	E-mail address:	<a href="mailto:info@bio-techne.com">info@bio-techne.com</a>

**1.4 Emergency Telephone number**

For chemical emergency spill, leak, fire, exposure, or accident call CHEMTREC day or night:  
Within USA and Canada: 1-800-424-9300. Outside USA and Canada: +1 703-527-3887 (collect calls accepted).

**2. HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 [GHS/CLP]  
Flammable liquids - Category 2

**2.2 Label elements**

Labeling according to Regulation (EC) No 1272/2008 [CLP]

Pictogram(s):



Signal word: Danger

Hazard statement(s):  
H225 Highly Flammable liquid and vapour

Precautionary statement(s):  
P280 Wear protective gloves/protective clothing/eye protection/face protection  
P303+361+353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower

**2.3 Other hazards - none**

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**3.2 Mixtures**

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component	Cas No.	EC No.	Index No.	Classification	Conc.
Ethanol	64-17-5	200-578-6	603-002-00-5	R11 H225	>99% (w/v)

**4. FIRST AID MEASURES**

**4.1 Description of first aid measures**

**General advice**

Consult a doctor and show this safety data sheet.

**If inhaled**

Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.

**In case of skin contact**

Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.

**In case of eye contact**

Flush with copious amounts of water for at least 15 minutes. Consult a doctor.

**If swallowed**

Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.

**4.2 Most important symptoms and effects, both acute and delayed**

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

**4.3 Indication of immediate medical attention and special treatment needed**

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

**5. FIRE-FIGHTING MEASURES****5.1 Extinguishing media****Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**5.2 Special hazards arising from the substance or mixture**

In combustion, may emit toxic fumes.

**5.3 Precautions for fire-fighters**

Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.

**6. ACCIDENTIAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas.

**6.2 Environmental precautions**

Do not let product enter drains.

**6.3 Methods and materials for containment and cleaning up**

Cover spillage with suitable absorbent material. Sweep up material and place in an appropriate container. Hold all material for appropriate disposal as described under section 13 of SDS.

**6.4 Reference to other sections**

For required PPE see section 8. For disposal see section 13.

**7. HANDLING AND STORAGE****7.1 Precautions for safe handling**

Use in a chemical fume hood, with air supplied by an independent system. Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

**7.2 Conditions for safe storage, including any incompatibilities.**

Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use. Recommended storage temperature: Store at -20°C

**7.3 Specific end uses**

Use in a laboratory fume hood where possible. Refer to employer's COSHH risk assessment.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters****Components with workplace control parameters**

Component	CAS No.	Workplace Exposure Limits			
		8 Hour TWA		15 min STEL	
		ppm	mg.m <sup>-3</sup>	ppm	mg.m <sup>-3</sup>
Ethanol	64-17-5	1000	1920	-	-

**8.2 Exposure controls****Appropriate engineering controls**

Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station.

**Personal protective equipment****Eye/face protection**

Use appropriate safety glasses.

**Skin protection**

Use appropriate chemical resistant gloves (minimum requirement use standard BS EN 374:2003). Gloves should be inspected before use. Wash and dry hands thoroughly after handling.

**Body protection**

Wear appropriate protective clothing.

**Respiratory protection**

If risk assessment indicates necessary, use a suitable respirator.

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**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

Appearance	Colourless liquid	Vapor pressure	No data available
Odor	No data available	Vapor density	No data available
Odor threshold	No data available	Relative density	No data available
pH	No data available	Solubility(ies)	Soluble in ethanol (supplied pre-dissolved in anhydrous ethanol, 50µg/ml)
Melting / freezing point	No data available	Partition coefficient	No data available
Boiling point / range	No data available	Auto-ignition temperature	No data available
Flash point	No data available	Decomposition temperature	No data available
Evaporation rate	No data available	Viscosity	No data available
Flammability (solid, gas)	No data available	Explosive properties	No data available
Upper / lower flammability or explosive limits	No data available	Oxidising properties	No data available

**9.2 Other safety information**

No data available

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**10. STABILITY AND REACTIVITY****10.1 Reactivity**

Stable under recommended transport or storage conditions.

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

**10.4 Conditions to avoid**

Heat, moisture.

**10.5 Incompatible materials**

Strong acids/alkalis, strong oxidising/reducing agents.

**10.6 Hazardous decomposition products**

In combustion may emit toxic fumes. No known decomposition information.

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**11. TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****Acute Toxicity**

(Data refers to ethanol): RAT-ORL LD50: 7060mg/kg; RAT-IPR LD50: 3600ug/kg; RAT-IVN LD50: 1440mg/kg; RAT-IAT LD50: 11mg/kg; MUS-ORL LD50: 3450mg/kg; IPR-MUS LD50: 528mg/kg; SCU-MUS LD50: 1973mg/kg; MUS-IVN LD50: 1973mg/kg

**Skin corrosion/irritation**

Classified based on available data

**Serious eye damage/irritation**

Classified based on available data

**Respiratory or skin sensitization**

Classified based on available data

**Germ cell mutagenicity**

Classified based on available data

**Carcinogenicity**

Classified based on available data

**Reproductive toxicity**

Classified based on available data

**Specific target organ toxicity - single exposure**

Classified based on available data

**Specific target organ toxicity - repeated exposure**

Classified based on available data

**Aspiration hazard**

Classified based on available data

### **Symptoms / Routes of exposure**

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. There may be a feeling of light headedness.

Ingestion: There may be irritation of the throat. May cause feelings of intoxication and drowsiness.

Skin: There may be mild irritation at the site of contact. The skin will become dry and flaky.

Eyes: There may be irritation and redness. The eyes will water profusely. Absorption through the eyes may lead to symptoms similar to those of ingestion.

Delayed / Immediate Effects: Immediate effects can be expected after short-term exposure.

### **Additional Information**

RTECS No: (ethanol: KQ6300000)

Exposure may cause irritation of eyes, mucous membranes, upper respiratory tract and skin.

To the best of our knowledge, the chemical, physical and toxicological properties have not been fully investigated

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## **12. ECOLOGICAL INFORMATION**

### **12.1 Toxicity**

No data available

### **12.2 Persistence and degradability**

No data available

### **12.3 Bioaccumulative potential**

No data available

### **12.4 Mobility in soil**

No data available

### **12.5 Results of PBT and vPvB assessment**

No data available

### **12.6 Other adverse effects**

No data available

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## **13. DISPOSAL CONSIDERATIONS**

### **13.1 Waste treatment methods**

#### **Product**

Transfer to a suitable container and arrange for collection by specialized disposal company in accordance with National legislation.

#### **Contaminated packaging**

Dispose of in a regulated landfill site or other method for hazardous or toxic wastes in accordance with National legislation.

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## **14. TRANSPORT INFORMATION**

Classified according to the criteria of the UN Model Regulations as reflected in the IMDG Code, ADR, RID and IATA.

### **14.1 UN-Number**

UN1170

### **14.2 UN proper shipping name**

Ethanol solution

### **14.3 Transport hazard class(es)**

3

### **14.4 Packaging group**

II

### **14.5 Environmental hazards**

This product is not classified as environmentally hazardous according to the UN Model Regulations, nor a marine pollutant according to the IMDG Code.

### **14.6 Special precautions for users**

No data available

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## **15. REGULATORY INFORMATION**

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

### **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

No data available

#### **California Proposition 65**

Not applicable

## 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been made for this product.

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## 16. OTHER INFORMATION

### Further Information

Copyright © 2020 Tocris Bioscience. This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislature. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.

End of safety data sheet