## SAFETY DATA SHEET

Version: v1 Revision Date: 2023-11-06 Print Date: 2023-11-16

# SECTION 1:Identification of the substance/mixture and of the company/undertaking

## **1.1** Product identifiers

Product name	: (-)-Ethyl L-lactate
Product Number	: E104553
Brand	: aladdin
CAS-No.	: 687-47-8

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

: 仅供科研用途,不作为药物、家庭备用药或其它用途。

Identified uses

1.3

## Details of the supplier of the safety data sheet

Company	: Shanghai Aladdin Biochemical Tech Co.,Ltd
Address	: 36 Xinjinqiao Road, Shanghai
Telephone	: 400-620-6333
Fax	: no data available

## **1.4** Emergency telephone number

Emergency Phone : 0532-83889090

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

2.2 GHS Label elements, including precautionary statements

#### Pictogram

Signal word	Danger	
Hazard statement(s)		
H226	Flammable liquid and vapor	
H318	Causes serious eye damage	
H335	May cause respiratory irritation	
Precautionary statement(s)		
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact	
	lenses if present and easy to do - continue rinsing.	

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

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

### 3.1 Substances

Synonyms	: (–)-Ethyl (S)-2-hydroxypropionate (S)-(–)-2-Hydroxypropionic acid ethyl
ester L-Lactic acid ethyl ester	
Formula	: C5H10O3
Molecular weight	: 118.13
CAS No.	: 687-47-8
EC-NO.	: 211-694-1

photoresist grade, ≥99.0%

Component Classification Concentration

## (-)-Ethyl L-lactate

no data available

**SECTION 4: First aid measures** 

## 4.1 Description of first aid measures

General advice 请教医生。向到现场的医生出示此安全技术说明书。 If inhaled 将受害者移到新鲜空气处,保持呼吸通畅,休息。若感不适请求医就诊。 In case of skin contact 用肥皂和大量的水冲洗。请教医生。 In case of eye contact 用大量水彻底冲洗至少15分钟并请教医生。 If swallowed 用水雾,抗乙醇泡沫,干粉或二氧化碳灭火。

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

主要症状和影响,急性和迟发效应据我们所知,此化学,物理和毒性性质尚未经完整的研究。

## 4.3 Indication of any immediate medical attention and special treatment needed

no data available

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

Suitable extinguishing media 用水雾,抗乙醇泡沫,干粉或二氧化碳灭火。 Unsuitable extinguishing media no data available

## 5.2 Special hazards arising from the substance or mixture

使用个人防护用品。避免吸入蒸气、烟雾或气体。保证充分的通风。移去所有火源。人员疏散到安全区域。谨防蒸气积累达到可爆炸的浓度。蒸气能在低洼处积聚。

## 5.3 Advice for firefighters

用水喷雾冷却未打开的容器。

## 5.4 Further information

用水喷雾冷却未打开的容器。

## **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

Contain the overflow, collect it with an anti electric vacuum cleaner or wet brush, and place it in a container for disposal according to local regulations (see Part 13). Place in a suitable closed container for processing

#### 6.2 Environmental precautions

Do not allow the product to enter the sewer.

## 6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

#### 6.4 Reference to other sections

For disposal see section 13.

## **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

No data available

## 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool place. Keep the container tightly closed and store in a dry and ventilated place. The opened container must be carefully resealed and kept in an upright position to prevent leakage.

## 7.3 Specific end use(s)

no data available

## **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### 8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

Eye/face protection

no data available

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU)2016/425 and the standard EN 374 derived from it.

#### **Body Protection**

no data available

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a fullface particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN(EU).

#### Control of environmental exposure

no data available

## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

a) Appearance	form: clear liquid color: colorless
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	4 at 50 g/l at 20 °C (68 °F)
e) Melting point/freezing point	-26°C
f) Initial boiling point and boiling range	154°C
g) Flash point	46°C
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive	
limits	no data available
k) Vapour pressure	2.1 hPa (1.6 mmHg) at 20 °C (68 °F)
I) Vapour density	4.08 - (Air = 1.0)
m) Relative density	1.034 g/cm3 at 20 °C (68 °F)
n) Water solubility	no data available
o) Partition coefficient: n-octanol/water	log Pow: 0.06
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available

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r) Viscosity	no data available
s) Explosive properties N	no data available
t) Oxidizing properties N	no data available

## 9.2 Other safety information

no data available

## **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

强氧化剂

## **10.2** Chemical stability

在建议的贮存条件下是稳定的

**10.3 Possibility of hazardous reactions** no data available

#### **10.4** Conditions to avoid

吸入可能有害。引起呼吸道刺激。

**10.5** Incompatible materials

如服入是有害的。

## **10.6 Hazardous decomposition products**

半数致死剂量(LD50) 经口- 大鼠- 雄性和雌性- > 2,000 mg/kg 半数致死浓度 (LC50)吸入- 大鼠- 雄性和雌性- 4 h - > 5.4 mg/l

## **SECTION 11: Toxicological information**

## **11.1** Information on toxicological effects

Acute toxicityno data availableSkin corrosion/irritation无数据资料Serious eye damage/eye irritation通过皮肤吸收可能有害。可能引起皮肤刺激。Respiratory or skin sensitisationno data availableGerm cell mutagenicity此产品中没有大于或等于0.1%含量的组分被IARC鉴别为可能的或肯定的人类致癌物。Carcinogenicity细胞突变性-体外试验-Ames试验 (艾姆斯试验) -鼠伤寒沙门氏菌-有或没有代谢活化作用-阴性

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Reproductive toxicity化学物质毒性作用登记:无数据资料Specific target organ toxicity - single exposureno data availableSpecific target organ toxicity - repeated exposure引起眼睛灼伤。Aspiration hazardno data availableAdditional Informationno data available

## **SECTION 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

#### **SECTION 13:**

## **13.1** Disposal considerations

Product no data available Contaminated packaging Dispose of as unused product.

## **SECTION 14: Transport information**

## DOT (US)

UN number: 1192

Packing group: III

Class: 3

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Proper shipping name: ETHYL LACTATE	Reportable Quantity(RQ): no data available	Poison Inhalation Hazard: No
Environmental Hazards: No		
IMDG		
UN number: 1192	Packing group: III	EMS-No: No
Proper shipping name: ETHYL LACTA	TE	
ΙΑΤΑ		
UN number: 1192	Packing group: III	Class: 3
Proper shipping name: ETHYL LACTA	TE	

## **SECTION 15: Regulatory information**

no data available

## **SECTION 16: Other information**

#### **Further information**

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