



# Material Safety Data Sheet

## 1,2-Propanediol

Version: 2.0 EN  
Revision Date: 2024-12

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### SECTION 1: IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

#### 1.1 Product identifiers

Product Name	1,2-Propanediol
CAS No	57-55-6
Synonyms	Propylene glycol; 1,2-Propanediol

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

Recommended Use	Chemical intermediate, For research and industrial use only
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#### 1.3 Details of the supplier of the safety data sheet

Company	China lithium Products technology Company Limited 9 HG, No.99 LuJiang Road, Xiamen city, China
Telephone	+86 592 2687860
Email	info@lithium-chemical.com

#### 1.4 Emergency telephone number

Emergency phone #	+86 592 2687860
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### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture

#### 2.2 GHS Label elements, including precautionary statements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

##### Hazard Statements

No data available

##### Precautionary Statements

No data available

##### Supplemental Hazard Statements

None

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

No data available

#### 2.4 Other hazards

None

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS



### 3.1 Substances

Substance name	1,2-Propanediol
Formula	$C_3H_8O_2$
CAS No	57-55-6
EC No	200-338-0

**Hazardous ingredients:** No data available

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

#### If inhaled

Provide fresh air

#### In case of skin contact

Brush off loose particles from skin. Rinse skin with water/shower

#### In case of eye contact

Rinse out with plenty of water. Remove contact lenses

#### If swallowed

Make victim drink water (two glasses at most). Consult doctor if feeling unwell

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

### 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

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

#### Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given

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

Carbon oxides

Sodium oxides

Combustible

Development of hazardous combustion gases or vapours possible in the event of fire

### 5.3 Advice for firefighters [www.lithium-chemical.com](http://www.lithium-chemical.com)

Wear self-contained breathing apparatus for firefighting if necessary

### 5.4 Further information

None

## SECTION 6: ACCIDENTAL RELEASE MEASURES



#### **6.1 Personal precautions, protective equipment and emergency procedures**

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert

For personal protection see section 8

#### **6.2 Environmental precautions**

Prevent further spillage or leakage if it is safe to do so, Do not let the chemical enter drains, Discharge into the Environment must be avoided

#### **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 with liquid-absorbent material. Dispose of properly. Clean up affected area

#### **6.4 Reference to other sections**

For disposal see section 13

### **SECTION 7: HANDLING AND STORAGE**

#### **7.1 Precautions for safe handling**

##### **Advice on safe handling**

For precautions see section 2.2

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

##### **Storage conditions**

Tightly closed. Dry

##### **Storage class**

Storage class (TRGS 510): 11: Combustible Solids

#### **7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **8.1 Control parameters**

Ingredients with workplace control parameters:

Contains no substances with occupational exposure limit values

#### **8.2 Exposure controls**

Appropriate engineering controls:

Change contaminated clothing. Wash hands after working with substance

##### **Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

##### **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

##### **Body Protection**



impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace

**Respiratory protection**

required when dusts are generated

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system

**Control of environmental exposure**

Do not let product enter drains

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

Appearance	Form: liquid, clear, viscous Colour: colourless
Odour	No data available
Odour Threshold	No data available
pH	No data available
Melting point/freezing point	-60 °C- lit
Initial boiling point and boiling range	187 °C- lit
Flash point	103 °C- closed cup
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	Upper explosion limit: 12,5 %(V) Lower explosion limit: 2,6 %(V)
Vapour pressure	0,11 hPa at 20 °C
Vapour density	2,63- (Air = 1.0)
Relative density	1,036 g/cm <sup>3</sup> at 25 °C
Water solubility	No data available
Partition coefficient: n- octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

**9.2 Other safety information**

Relative vapour density	2,63- (Air = 1.0)
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**SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity**

No additional information available



## 10.2 Chemical stability

Stable under recommended storage conditions

## 10.3 Possibility of hazardous reactions

No data available

## 10.4 Conditions to avoid

No information available

## 10.5 Incompatible materials

Acid chlorides, Acid anhydrides, Oxidizing agents, Chloroformates, Reducing agents

## 10.6 Hazardous decomposition products

In the event of fire: see section 5

# SECTION 11: TOXICOLOGICAL INFORMATION

## 11.1 Information on toxicological effects

	LD50 Oral - Rat - male and female - 22,000 mg/kg Remarks: (ECHA)
	Inhalation: No data available
<b>Acute toxicity:</b>	LD50 Dermal - Rabbit - > 2,000 mg/kg
	Remarks: (ECHA)
	Skin - Rabbit
<b>Skin corrosion/irritation:</b>	Result: No skin irritation - 4 h
	(OECD Test Guideline 404)
	Eyes - Rabbit
<b>Serious eye damage/eye irritation:</b>	Result: No eye irritation
	(OECD Test Guideline 405)
	Maximization Test - Guinea pig
<b>Respiratory or skin sensitization:</b>	Result: negative
	(OECD Test Guideline 406)
<b>Germ cell mutagenicity:</b>	
	No data available
<b>Carcinogenicity</b>	
	No data available
<b>Reproductive toxicity</b>	
	No data available
<b>Specific target organ toxicity - single exposure</b>	
	No data available
<b>Specific target organ toxicity - repeated exposure</b>	
	No data available
<b>Aspiration hazard</b>	
	No data available

# SECTION 12: ECOLOGICAL INFORMATION

**12.1 Toxicity**

Toxicity to fish	Mortality NOEC- Pimephales promelas (fathead minnow)- 52.930 mg/l- 96 h
Toxicity to daphnia and other aquatic invertebrates	Mortality NOEC- Daphnia- 13.020 mg/l- 48 h
Toxicity to algae	Static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 19,000 mg/l - 96 h (OECD Test Guideline 201)

**12.2 Persistence and degradability**

Biodegradability	Aerobic Dissolved organic carbon (DOC) - Exposure time 28 d Result: 98.3 % - Readily biodegradable (OECD Test Guideline 301F)
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**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**12.6 Other adverse effects**

No data available

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company

**Remarks**

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities

**SECTION 14: TRANSPORT INFORMATION****ADR/RID**

UN number: No	Packing group: No	Environmental hazards: No
Proper shipping name: No	Transport hazard class(es): No	

**IMDG**

IMDG UN number: No	Packing group: No	Environmental hazards: No
Proper shipping name: No	Transport hazard class(es):No	

**IATA**

UN number: No	Packing group: No	Environmental hazards: No
Proper shipping name: No	Transport hazard class(es): No	

**SECTION 15: REGULATORY INFORMATION**



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

**National regulatory information**

No data available

**15.2 Other regulations**

Please pay attention on the waste treatment should also comply with local regulations requirement

**SECTION 16: OTHER INFORMATION**

**Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. China Lithium Product Technology Co., Ltd.( CLPC) and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.lithium-chemical.com](http://www.lithium-chemical.com) for additional terms and conditions of sale.