

Shanghai Aladdin Biochemical Technology Co., Ltd.  
No. 809, Chuhua Branch Road, Fengxian District, Shanghai

# SAFETY DATA SHEET

Version: v1  
Revision Date: 2024-02-05  
Print Date: 2024-02-11

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

### 1.1 Product identifiers

Product name : Effect Diluent High, Animal-free  
Product Number : E494357  
Brand : aladdin  
CAS-No. : no data available

### 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 : 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 : no data available  
Signal word : no data available  
Hazard statement(s)  
Precautionary statement(s)

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

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Synonyms : no data available  
Formula : no data available  
Molecular weight : no data available

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Component	Classification	Concentration
<b>Component</b> 2-Mercaptothiazol-3(2H)-one compound with 5-chloro-2-methylisothiazol-3(2H)-one	<b>Classification</b>	<b>Concentration</b>
CAS-No.: 55965-84-9 EC-No.: 613-167-00-5	Skin Corr. 1C;H314 Skin Sens. 1A;H317 Eye Dam. 1;H318 Acute Tox. 3;H301 Acute Tox. 2;H310 Acute Tox. 2;H330 Aquatic Acute 1;H400 (M=100) Aquatic Chronic 1;H410 (M=100) EUH071)	
<b>Ethylene glycol</b>		
CAS-No.: 107-21-1 EC-No.: 203-473-3	Acute Tox,4;H302	

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice

no data available

If inhaled

Move the affected person to fresh air. Keep at rest. If needed: get medical attention.

In case of skin contact

Remove contaminated clothing and wash with soap and water. If irritation persists: Seek medical advice.

In case of eye contact

Flush with water or physiological salt water, holding eye lids open, remember to remove contact lenses, if any. If irritation persists: Seek medical advice.

If swallowed

Rinse mouth and drink plenty of water. Keep under surveillance. If needed: get medical attention.

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

May cause slight irritation of skin, eyes, lungs and gastrointestinal tract. May cause an allergic reaction.

### 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

Water,Foam,Carbon dioxide (CO2),Dry powder

Unsuitable extinguishing media

no data available

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

Not combustible; aqueous solution.

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

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## 5.4 Further information

Use water spray to cool unopened containers.

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## SECTION 6: Accidental release measures

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

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

### 6.2 Environmental precautions

Avoid empty into drains. If large amounts of the mixture contaminate sewages, inform appropriate authorities in accordance with local regulations.

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

Absorb spilled liquid and place spillage in a plastic container.

### 6.4 Reference to other sections

For disposal see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with skin, eyes and clothing.

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

At 2-8°C. Keep container closed when not in use. Protected against light.

### 7.3 Specific end use(s)

no data available

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

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Occupational exposure limits (EH40/2018):			
	Long-term exposure limit(8-hr TWA)	Short-term exposure limit (15-minute STEL)	Comment
Ethane-1,2-diol			Sk
Particulate	10 mg/m <sup>3</sup>	-	
Vapour	20 ppm=52 mg/m <sup>3</sup>	40 ppm=104 mg/m <sup>3</sup>	
Sk:Can be absorbed through the skin			

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DNEL:	Exposure	Value	Population	Effects
Ethane-1,2-diol	Long term inhalation	35 mg/m	Worker	Local
	Long term dermal	106 mg/kg/d	Worker	Systemic
	Long term inhalation	7 mg/m	Consumer	Local
	Long term-dermal	53 mg/kg/d	Consumer	Systemic
PNEC:	Medium	Value		
Ethane 1,2-diol	Freshwater	10 mg/l		
	Marine water	1 mg/l		
	Intermittent release (Fresh water)	10 mg/l		
	Intermittent release (Marine water)	1 mg/l		
	Freshwaters sediment	37 mg/kg		
	Marine water sediment	3.7 mg/kg		
	Soil	1.53 mg/kg		
	STP	199.5 mg/l		

## 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

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166(EU).

Skin protection

Gloves must be checked before use. Please use proper methods to remove the gloves (do not touch the outer surface of the gloves), and avoid any skin parts contacting the product. After use, please handle the contaminated gloves carefully

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according to relevant laws and regulations and effective laboratory rules and procedures. Please clean and blow dry the protective gloves selected for your hands must meet the specifications given in regulation (EU) 2016 / 425 and the en 374 standard derived from it.

#### Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective 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

Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multi-purpose combination (US) or type ABEK (EN 14387) 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

If safety requires, prevent further leakage or spillage. Do not let the product enter the sewer.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

a) Appearance	form: Liquid color: Colourless to light yellow
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	7.2
e) Melting point/freezing point	no data available
f) Initial boiling point and boiling range	no data available
g) Flash point	no data available
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	no data available
l) Vapour density	no data available
m) Relative density	~ 1
n) Water solubility	Completely soluble in water
o) Partition coefficient: n-octanol/water	no data available
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available
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

no data available

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## 10.2 Chemical stability

Stable under recommended storage conditions.

## 10.3 Possibility of hazardous reactions

no data available

## 10.4 Conditions to avoid

Excessive heating and freezing

## 10.5 Incompatible materials

no data available

## 10.6 Hazardous decomposition products

no data available

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity

Inhalation LC50(rat)>4.62mg/l/4H(vapours)(CMIT/MIT)

Dermal LD50(rabbit)=660mg/kg(CMIT/MIT)LD50(mouse)=>3500mg/kg(Ethane-1,2-diol)

Oral LD50(rat)=457mg/kg(CMIT/MIT)LD50(rat)=>4500mg/kg(Ethane-1,2-diol)

Corrosion/irritation:Corrosive,rabbit(CMIT/MIT)No skin or eye irritation,rabbit(Ethane-1,2-diol)

Sensitization:Skin sensitization(CMIT/MIT)Not skin sensitising,guinea pig(Ethane-1,2-diol)

Skin corrosion/irritation

May cause Irritation with redness. Ethane-1,2-diol may be absorbed through the skin.

Serious eye damage/eye irritation

May cause irritation with redness.

Respiratory or skin sensitisation

Frequent contact with skin may cause sensitization.Symptoms are redness,swelling and itching.Prolonged or frequent exposure to vapours of volatile organic compounds may result in damage on liver,kidneys,blood or central nervous system(including brain damage).

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

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no data available

Aspiration hazard

no data available

Additional Information

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

## SECTION 12: Ecological information

### 12.1 Toxicity

no data available

### 12.2 Persistence and degradability

CMIT/MIT is not readily biodegradable(<56%,28d,OECD 301B). Ethane-1,2-diol is readily degradable(>90%,10d,OECD Guideline 301A)

### 12.3 Bioaccumulative potential

CMIT/MIT:1<Log Kow<3-Possible moderate bioaccumulative. Ethane 1,2-diol:Log Kew<1·No bioaccumulation expected.

### 12.4 Mobility in soil

no data available

### 12.5 Results of PBT and vPvB assessment

No ingredients are PBT/vPvB, according to the criteria in REACH

### 12.6 Other adverse effects

no data available

## SECTION 13:

### 13.1 Disposal considerations

Product

Disposal should be according to local, state or national legislation. Dispose of through authority facilities or pass to chemical disposal company.

Contaminated packaging

cycle to process, if possible. Consult your local regional authorities and an expert of disposal. You may be able to dissolve or mix material with a combustible solvent and little by little burn in a chemical incinerator equipped with an afterburner and scrubber system. If a large amount of the substance is burned at a time, an explosion may occur. Observe all federal, state and local regulations when disposing of the substance.

## SECTION 14: Transport information

DOT (US)

UN number: no data available

Packing group: no data available

Class: no data available

Proper shipping name: no data available

Reportable Quantity(RQ): no data available Poison Inhalation Hazard: no data avail

Environmental Hazards: no



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**IMDG**

UN number: no data available

Packing group: no data available

EMS-No: no data available

Proper shipping name: no data available

**IATA**

UN number: no data available

Packing group: no data available

Class: no data available

Proper shipping name: no data available

**SECTION 15: Regulatory information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**SECTION 16: Other information**

## Further information

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