

## Chemical Safety Data Sheet MSDS / SDS

**ERYTHRITOL ANHYDRIDE**

Revision Date:2026-05-31 Revision Number:1

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****Product identifier**

Product name : ERYTHRITOL ANHYDRIDE  
CBnumber : CB0266745  
CAS : 564-00-1  
Synonyms : Erythritol Anhydride

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

Relevant identified uses : For R&D use only. Not for medicinal, household or other use.  
Uses advised against : none

**Company Identification**

Company : Chemicalbook  
Address : Building 1, Huihuang International, Shangdi 10th Street, Haidian District, Beijing  
Telephone : 010-86108875

**SECTION 2: Hazards identification****GHS Label elements, including precautionary statements**

Symbol(GHS)



Signal word

Danger

**Precautionary statements**

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continuerinsing.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash skin thoroughly after handling.

P501 Dispose of contents/container to.....

P405 Store locked up.

P330 Rinse mouth.

P321 Specific treatment (see ... on this label).

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

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

P264 Wash skin thoroughly after handling.

P501 Dispose of contents/container to.....

P405 Store locked up.

P363 Wash contaminated clothing before reuse.

P361 Remove/Take off immediately all contaminated clothing.

P322 Specific measures (see ...on this label).

P310 Immediately call a POISON CENTER or doctor/physician.

P302+P350 IF ON SKIN: Gently wash with plenty of soap and water.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

P264 Wash skin thoroughly after handling.

P262 Do not get in eyes, on skin, or on clothing.

P362 Take off contaminated clothing and wash before reuse.

P332+P313 IF SKIN irritation occurs: Get medical advice/attention.

P321 Specific treatment (see ... on this label).

P302+P352 IF ON SKIN: wash with plenty of soap and water.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash skin thoroughly after handling.

P501 Dispose of contents/container to.....

P405 Store locked up.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P281 Use personal protective equipment as required.

P202 Do not handle until all safety precautions have been read and understood.

P201 Obtain special instructions before use.

P501 Dispose of contents/container to.....

P405 Store locked up.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P320 Specific treatment is urgent (see ... on this label).

P310 Immediately call a POISON CENTER or doctor/physician.

P304+P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.

P284 Wear respiratory protection.

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

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

#### **Hazard statements**

H319 Causes serious eye irritation

H330 Fatal if inhaled

H351 Suspected of causing cancer

H301 Toxic if swallowed

H310 Fatal in contact with skin

H315 Causes skin irritation

H335 May cause respiratory irritation

H226 Flammable liquid and vapour

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## SECTION 3: Composition/information on ingredients

## Substance

Product name	: ERYTHRITOL ANHYDRIDE
Synonyms	: Erythritol Anhydride
CAS	: 564-00-1
MF	: C <sub>4</sub> H <sub>6</sub> O <sub>2</sub>
MW	: 86.09

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## SECTION 4: First aid measures

### If inhaled

Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.

### In case of skin contact

Take off all contaminated clothing immediately. If on skin, rinse well with water. Get medical advice/ attention.

### In case of eye contact

Rinse with plenty of water. If easy to do, remove contact lens, if worn. Get medical advice/ attention.

### If swallowed

Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.

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

None known.

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## SECTION 5: Firefighting measures

### Suitable extinguishing media

Dry powder, Foam, Water spray, Carbon dioxide (CO<sub>2</sub>)

### Specific hazards during fire fighting

No information available.

### Specific extinguishing methods

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Immediately evacuate personnel to safe areas. Remove undamaged containers from fire area if it is safe to do so.

### Special protective equipment for fire-fighters

Use personal protective equipment.

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## SECTION 6: Accidental release measures

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

Wear suitable protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

## **Environmental precautions**

Prevent product from entering drains.

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

Collect as much of the spill as possible with a suitable absorbent material.

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# SECTION 7: Handling and storage

## **Handling**

### **Technical measures**

Prevent generation of vapor or mist. Take precautionary measures against static discharge. Use explosion-proof equipment.

### **Local/Total ventilation**

Ensure adequate ventilation. Handle product only in closed system or provide appropriate exhaust ventilation at machinery. Use a local exhaust ventilation.

### **Advice on safe handling**

Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not subject to grinding, shock or friction. Wash hands and face thoroughly after handling.

### **Avoidance of contact**

Oxidizing agents

## **Storage**

### **Conditions for safe storage**

Keep container tightly closed. Store in a cool and shaded area. Keep in a well-ventilated place. Use explosion-proof equipment. Store locked up.

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# SECTION 8: Exposure controls/personal protection

## **Ingredients with workplace control parameters**

Contains no substances with occupational exposure limit values.

## **Engineering measures**

Install a closed system or local exhaust.

Also install safety shower and eye bath.

## **Personal protective equipment**

### **Respiratory protection**

Gas mask

Self-contained breathing apparatus

**Eye/face protection**

Safety glasses

Safety goggles

Face-shield

**Skin and body protection**

Impervious protective clothing

**Hand protection**

Impervious gloves \*Use personal protective equipment(PPE) approved under appropriate government standards and follow local and national regulations.

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## SECTION 9: Physical and chemical properties

**Information on basic physicochemical properties**

liquid

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**Color**

colorless - yellow

**Odor**

No data available

**Odor Threshold**

No data available

**pH**

No data available

**Melting point/freezing point**

-19 °C

**Boiling point/boiling range**

138 °C

**Flash point**

46 °C (Calculated value)

**Evaporation rate**

No data available

**Flammability**

No data available

**Upper explosion limit / Upper flammability limit**

No data available

**Lower explosion limit / Lower flammability limit**

No data available

**Vapor pressure**

No data available

**Relative density**

1.11

**Solubility(ies)****Water solubility**

soluble

**Solubility in other solvents**

No data available

**Partition coefficient: n-octanol/water**

No data available

**Autoignition temperature**

No data available

**Decomposition temperature**

No data available

**Viscosity****Viscosity, dynamic**

No data available

**Viscosity, kinematic**

No data available

**Molecular weight**

86.09 g/mol

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**SECTION 10: Stability and reactivity****Reactivity**

No data available

**Chemical stability**

Stable under normal conditions.

### **Possibility of hazardous reactions**

None under normal processing.

### **Conditions to avoid**

Electrical spark Open flame Electrostatic discharge

### **Incompatible materials**

Oxidizing agents

### **Hazardous decomposition products**

Carbon monoxide, Carbon dioxide (CO<sub>2</sub>)

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## **SECTION 11: Toxicological information**

### **Acute toxicity**

#### **Product**

#### **Acute oral toxicity**

Assessment: The component/mixture is toxic after single ingestion.

#### **Acute inhalation toxicity**

Assessment: The component/mixture is extremely toxic after short term inhalation.

#### **Acute dermal toxicity**

Assessment: The component/mixture is highly toxic after single contact with skin.

### **Components**

#### **meso-1,2**

3,4-Diepoxybutane:

#### **Acute oral toxicity**

Assessment: The component/mixture is toxic after single ingestion.

#### **Acute inhalation toxicity**

Assessment: The component/mixture is extremely toxic after short term inhalation.

#### **Acute dermal toxicity**

Assessment: The component/mixture is highly toxic after single contact with skin.

### **Skin corrosion/irritation**

#### **Product**

#### **Result**

Skin irritation

## **Components**

**meso-1,2**

3,4-Diepoxybutane:

## **Result**

Skin irritation

## **Serious eye damage/eye irritation**

## **Product**

## **Result**

Eye irritation

## **Components**

**meso-1,2**

3,4-Diepoxybutane:

## **Result**

Eye irritation

## **Respiratory or skin sensitization**

Classified based on available data. For more details, see section 2.

## **Germ cell mutagenicity**

## **Product**

## **Germ cell mutagenicity - Assessment**

Presumed to induce heritable mutations in the germ cells of humans.

## **Components**

**meso-1,2**

3,4-Diepoxybutane:

## **Germ cell mutagenicity - Assessment**

Presumed to induce heritable mutations in the germ cells of humans.

## **Carcinogenicity**

## **Product**

## **Carcinogenicity - Assessment**

Suspected human carcinogens

### **Components**

#### **meso-1,2**

3,4-Diepoxybutane:

## **Carcinogenicity - Assessment**

Suspected human carcinogens

### **Reproductive toxicity**

Classified based on available data. For more details, see section 2.

### **STOT-single exposure**

### **Product**

### **Assessment**

May cause respiratory irritation.

### **Components**

#### **meso-1,2**

3,4-Diepoxybutane:

### **Assessment**

May cause respiratory irritation.

### **STOT-repeated exposure**

Classified based on available data. For more details, see section 2.

### **Repeated dose toxicity**

Classified based on available data. For more details, see section 2.

### **Aspiration toxicity**

Classified based on available data. For more details, see section 2.

### **RTECS No.**

EJ8750000 (meso-1,2:3,4-Diepoxybutane)

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## **SECTION 12: Ecological information**

### **Ecotoxicity**

No data available

### **Persistence and degradability**

No data available

### **Bioaccumulative potential**

No data available

### **Mobility in soil**

No data available

### **Other adverse effects**

No data available

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## SECTION 13: Disposal considerations

### **Disposal methods**

#### **Waste from residues**

Disposal in accordance with local and national regulations. Take precautions against ignition or explode. Entrust disposal to a licensed waste disposal company.

#### **Contaminated packaging**

Disposal in accordance with local and national regulations. Before disposal of used container, remove contents completely.

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## SECTION 14: Transport information

### **International Regulations**

#### **IATA-DGR**

Not permitted for transport

#### **IMDG-Code**

#### **UN number**

UN 3384

#### **Proper shipping name**

TOXIC BY INHALATION LIQUID, FLAMMABLE, N.O.S.

#### **Class**

6.1

#### **Subsidiary risk**

3

#### **Packing group**

I

#### **EmS Code**

F-E, S-D

### **Domestic regulation**

**GB 6944/12268**

**UN number**

UN 3384

**Proper shipping name**

TOXIC BY INHALATION LIQUID, FLAMMABLE, N.O.S.

**Class**

6.1

**Subsidiary risk**

3

**Packing group**

I

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## SECTION 15: Regulatory information

### Measures on the Environmental Administration of New Chemical Substances Registration

**Registration/Notification number**

B1A232214933

Downstream users need to comply with the conditions of safe use of the chemical, understand the environmental and health hazard and risk management measures identified on the SDS as well as the local/national regulations concerning the chemical.

### The ingredients of this product are reported in the following inventories

**CH BAGREG**

Not in compliance with the inventory

**TSCA**

Substance(s) not listed on TSCA inventory

**AICS**

Not in compliance with the inventory

**DSL**

This product contains the following components that are not on the Canadian DSL nor NDSL.

**meso-1,2**

3,4-Diepoxybutane

**ENCS**

Not in compliance with the inventory

**ISHL**

Not in compliance with the inventory

**KECI**

Not in compliance with the inventory

**PICCS**

Not in compliance with the inventory

**IECSC**

Not in compliance with the inventory

**NZIoC**

Not in compliance with the inventory

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## SECTION 16: Other information

### Abbreviations and acronyms

CAS: Chemical Abstracts Service

TWA: Time-Weighted Average

STEL: Short-Term Exposure Limit

LD50: Lethal Dose 50%

LC50: Lethal Concentration 50%

EC50: Effective Concentration 50%

PEL: Permissible Exposure Limit

TLV: Threshold Limit Value

IMDG: International Maritime Dangerous Goods Code

IATA: International Air Transport Association

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

DOT: US Department of Transportation

NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety and Health Administration

**Disclaimer:**

The information in this MSDS is only applicable to the specified product, unless otherwise specified, it is not applicable to the mixture of this product and other substances. This MSDS only provides information on the safety of the product for those who have received the appropriate professional training for the user of the product. Users of this MSDS must make independent judgments on the applicability of this SDS. The authors of this MSDS will not be held responsible for any harm caused by the use of this MSDS.