

## Chemical Safety Data Sheet MSDS / SDS

**1,5-HEXADIENE DIEPOXIDE**

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

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

Product name : 1,5-HEXADIENE DIEPOXIDE  
CBnumber : CB7422292  
CAS : 1888-89-7  
EINECS Number : 217-564-0  
Synonyms : 1,2-di(oxiran-2-yl)ethane,1,5-hexadiene diepoxide

**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

Warning

**Precautionary statements**

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. Continuerinsing.

P264 Wash skin thoroughly after handling.

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.....

P363 Wash contaminated clothing before reuse.

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

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

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

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

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

P330 Rinse mouth.

P301+P312 IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.

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

P264 Wash skin thoroughly after handling.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

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

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

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

#### **Hazard statements**

H319 Causes serious eye irritation

H332 Harmful if inhaled

H315 Causes skin irritation

H312 Harmful in contact with skin

H226 Flammable liquid and vapour

H302 Harmful if swallowed

---

## SECTION 3: Composition/information on ingredients

### **Substance**

Product name	: 1,5-HEXADIENE DIEPOXIDE
Synonyms	: 1,2-di(oxiran-2-yl)ethane,1,5-hexadiene diepoxide
CAS	: 1888-89-7
EC number	: 217-564-0
MF	: C6H10O2
MW	: 114.14

---

## SECTION 4: First aid measures

### **If inhaled**

Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

### **In case of skin contact**

Take off all contaminated clothing immediately. Wash off with soap and plenty of water. Call a POISON CENTER or doctor/ physician if you feel unwell.

### In case of eye contact

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

### If swallowed

Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.

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

None known.

---

## 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.

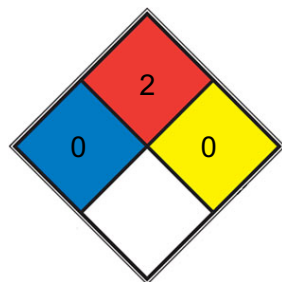
### Specific extinguishing methods

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.

### NFPA 704



**HEALTH 0** Poses no health hazard, no precautions necessary and would offer no hazard beyond that of ordinary combustible materials

**FIRE 2** Must be moderately heated or exposed to relatively high ambient temperature before ignition can occur and multiple finely divided suspended solids that do not require heating before ignition can occur. Flash point between 37.8 and 93.3 °C (100 and 200 °F). (e.g. diesel fuel, [sulfur](#))

**REACT 0** Normally stable, even under fire exposure conditions, and is not reactive with water (e.g. helium, [N<sub>2</sub>](#))

**SPEC.**  
**HAZ.**

---

## 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.

---

# 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. 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.

---

# 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

### **Eye/face protection**

Safety glasses

Face-shield

**Skin and body protection**

Protective suit

**Hand protection**

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

---

## SECTION 9: Physical and chemical properties

### Information on basic physicochemical properties

liquid

---

**Color**

colorless - yellow

**Odor**

No data available

**Odor Threshold**

No data available

**pH**

No data available

**Melting point/freezing point**

No data available

**Boiling point/boiling range**

188 °C

**Flash point**

63 °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**

1.03

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

No data available

**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**

114.14 g/mol

**Physical state**

clear liquid

---

**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

### **Incompatible materials**

Oxidizing agents

### **Hazardous decomposition products**

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

---

## **SECTION 11: Toxicological information**

### **Acute toxicity**

#### **Product**

#### **Acute oral toxicity**

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

#### **Acute inhalation toxicity**

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

#### **Acute dermal toxicity**

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

### **Components**

#### **1,5-Hexadiene Diepoxide**

#### **Acute oral toxicity**

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

#### **Acute inhalation toxicity**

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

#### **Acute dermal toxicity**

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

### **Skin corrosion/irritation**

#### **Product**

#### **Result**

Skin irritation

## **Components**

### **1,5-Hexadiene Diepoxide**

#### **Result**

Skin irritation

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

## **Product**

#### **Result**

Eye irritation

## **Components**

### **1,5-Hexadiene Diepoxide**

#### **Result**

Eye irritation

#### **Respiratory or skin sensitization**

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

#### **Germ cell mutagenicity**

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

#### **Carcinogenicity**

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

#### **Reproductive toxicity**

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

#### **STOT-single exposure**

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

#### **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.**

## 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

---

## 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.

---

## SECTION 14: Transport information

### **International Regulations**

#### **IATA-DGR**

##### **UN/ID No.**

Not applicable

##### **Proper shipping name**

Not applicable

##### **Class**

Not applicable

##### **Subsidiary risk**

Not applicable

**Packing group**

Not applicable

**IMDG-Code****UN number**

Not applicable

**Proper shipping name**

Not applicable

**Class**

Not applicable

**Subsidiary risk**

Not applicable

**Packing group**

Not applicable

**EmS Code**

Not applicable

**Domestic regulation****GB 6944/12268****UN number**

Not applicable

**Proper shipping name**

Not applicable

**Class**

Not applicable

**Subsidiary risk**

Not applicable

**Packing group**

Not applicable

---

## SECTION 15: Regulatory information

**Measures on the Environmental Administration of New Chemical Substances Registration****Registration/Notification number**

B1A232216376

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**

On the inventory, or 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.

1,5-Hexadiene Diepoxide

**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

---

## 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.