

## Chemical Safety Data Sheet MSDS / SDS

**Bis(vinylsulfonyl)methane**

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

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

Product name : Bis(vinylsulfonyl)methane  
CBnumber : CB7131998  
CAS : 3278-22-6  
EINECS Number : 221-909-0  
Synonyms : bis(vinylsulfonyl)methane,Bis(vinylsulphonyl)methane

**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**

P501 Dispose of contents/container to....  
P405 Store locked up.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P264 Wash skin thoroughly after handling.  
P202 Do not handle until all safety precautions have been read and understood.  
P201 Obtain special instructions before use.

**Hazard statements**

H315 Causes skin irritation  
H319 Causes serious eye irritation

## SECTION 3: Composition/information on ingredients

### Substance

Product name	: Bis(vinylsulfonyl)methane
Synonyms	: bis(vinylsulfonyl)methane,Bis(vinylsulphonyl)methane
CAS	: 3278-22-6
EC number	: 221-909-0
MF	: C5H8O4S2
MW	: 196.24

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## SECTION 4: First aid measures

### If inhaled

Remove person to fresh air and keep comfortable for breathing. Get medical advice/ attention.

### In case of skin contact

Take off all contaminated clothing immediately. Wash off with plenty of 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

Get medical advice/ attention. 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. 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**

Pick up and arrange disposal without creating dust.

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## SECTION 7: Handling and storage

### **Handling**

#### **Technical measures**

Prevent dispersion of dust.

#### **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. 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. 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**

Dustproof 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

solid

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**Color**

white

**Odor**

No data available

**Odor Threshold**

No data available

**pH**

No data available

**Melting point/freezing point**

62 °C

**Boiling point/boiling range**

466.6±28.0 °C(Predicted)

**Flash point**

No data available

**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**

0.002-0.004Pa at 20-25°C

**Solubility(ies)**

soluble in Methanol

**Water solubility**

No data available

**Solubility in other solvents**

soluble Solvent: Methanol

**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**

196.24 g/mol

**Density and/or relative density**

1.369±0.06 g/cm<sup>3</sup>(Predicted)

**Physical state**

Solid:particulate/powder

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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.

**Incompatible materials**

Oxidizing agents

**Hazardous decomposition products**

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

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**SECTION 11: Toxicological information****Acute toxicity**

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

**Skin corrosion/irritation****Product****Result**

Skin irritation

**Components****Bis(vinylsulfonyl)methane****Result**

Skin irritation

**Serious eye damage/eye irritation****Product****Result**

Eye irritation

**Components****Bis(vinylsulfonyl)methane****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**

Suspected of inducing heritable mutations in the germ cells of humans.

### **Components**

### **Bis(vinylsulfonyl)methane**

### **Germ cell mutagenicity - Assessment**

Suspected of inducing heritable mutations in the germ cells of humans.

### **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.

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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. 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**

###### **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

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## SECTION 15: Regulatory information

**CH BAGREG**

On the inventory, or in compliance with the inventory

**TSCA**

All substances listed as active on the TSCA inventory

**AICS**

On the inventory, or in compliance with the inventory

**DSL**

All components of this product are on the Canadian DSL

**ENCS**

Not in compliance with the inventory

**ISHL**

On the inventory, or in compliance with the inventory

**KECI**

Not in compliance with the inventory

**PICCS**

Not in compliance with the inventory

**IECSC**

On the inventory, or 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.