



# DSL Chemicals (Shanghai) Co., Ltd.

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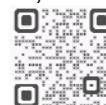
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## MATERIAL SAFETY DATA SHEET

Version 3.0

Revision Date: May. 08, 2015



### Section 1 - Product and Company Information

Product Name: Bis(vinylsulfonyl)methane

Product Number: C002136

Company: DSL Chemicals (Shanghai) Co., Ltd

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Shanghai 200001, China

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### Section 2 - Composition, Information on Ingredients

Substance Name

CAS #

Bis(vinylsulfonyl)methane

3278-22-6

Formula: C<sub>5</sub>H<sub>8</sub>O<sub>4</sub>S<sub>2</sub>

Molecular Weight: 196.254g/mol

### Section 3 - Hazards Identification

Emergency Overview

OSHA Hazards

Combustible Liquid, Carcinogen, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Irritant

Target Organs

Kidney, Bladder, Blood

GHS Classification

Flammable liquids (Category 4)

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Acute toxicity, Oral (Category 3)

Acute toxicity, Inhalation (Category 3)

Acute toxicity, Dermal (Category 5)

Skin irritation (Category 3)

Serious eye damage (Category 1)

Carcinogenicity (Category 1B)

Acute aquatic toxicity (Category 1)

GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)	
H227	Combustible liquid
H301 + H331	Toxic if swallowed or if inhaled
H313	May be harmful in contact with skin.
H316	Causes mild skin irritation.
H318	Causes serious eye damage.
H350	May cause cancer.
H400	Very toxic to aquatic life.
Precautionary statement(s)	
P201	Obtain special instructions before use.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P311	Call a POISON CENTER or doctor/ physician.
HMIS Classification	
Health hazard:	2
Chronic Health Hazard:	*
Flammability:	2
Physical hazards:	0
NFPA Rating	
Health hazard:	2
Fire:	2
Reactivity Hazard:	0
Potential Health Effects	
Inhalation	Toxic if inhaled. Causes respiratory tract irritation.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation.
Ingestion	Toxic if swallowed.

#### Section 4 - First Aid Measures

##### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

##### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

##### In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

##### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

##### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### Section 5 - Fire Fighting Measures

##### Suitable extinguishing media

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

Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.  
Hazardous combustion products  
Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas

#### **Section 6 - Accidental Release Measures**

Personal precautions

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas.

Ensure adequate ventilation.

Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### **Section 7 - Handling and Storage**

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

#### **Section 8 - Exposure Controls, Personal Protection**

ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

PERSONAL PROTECTIVE EQUIPMENT

Other: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

#### **Section 9 - Physical and Chemical Properties**

Appearance	White crystalline powder
pH	2.5~5.9
BP/BP Range	no data available
MP/MP Range	58~63°C
Freezing Point	no data available
Vapor Pressure	no data available
Vapor Density	no data available
Saturated Vapor Conc.	no data available
SG/Density	no data available
Bulk Density	no data available
Odor Threshold	no data available
Volatile%	1.0%
VOC Content	no data available
Water Content	no data available
Solvent Content	no data available
Evaporation Rate	no data available
Viscosity	no data available
Surface Tension	no data available
Partition Coefficient	no data available

Decomposition Temp.	no data available
Flash Point	no data available
Explosion Limits	no data available
Flammability	no data available
Autoignition Temp	no data available
Refractive Index	no data available
Optical Rotation	no data available
Miscellaneous Data	no data available
Solubility	Clear

## Section 10 - Stability and Reactivity

### STABILITY

Stable: Stable.

Materials to Avoid: Strong oxidizing agents.

### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Hydrogen fluoride, Sulfur oxides, Nitrogen oxides Carbon monoxide, Carbon dioxide.

### HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

## Section 11 - Toxicological Information

### ROUTE OF EXPOSURE

Skin Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Inhalation: Material may be irritating to mucous membranes and upper respiratory tract.

Multiple Routes: Harmful if swallowed, inhaled, or absorbed through skin.

### SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer.

## Section 12 - Ecological Information

No data available.

## Section 13 - Disposal Considerations

### APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

## Section 14 - Transport Information

### IATA

Shipping Name: Toxic solid, corrosive, organic, n. o. s.

Class of Division: 6.1

Subsidiary Risk: 8

UN Number: UN2928

Packing Group II

## Section 15 - Regulatory Information

### EU ADDITIONAL CLASSIFICATION

Symbol of Danger: Xn

Indication of Danger: Harmful.

R: 20/21/22

Risk Statements: Harmful by inhalation, in contact with skin and if swallowed.

S: 36

Safety Statements: Wear suitable protective clothing.

US CLASSIFICATION AND LABEL TEXT

Indication of Danger: Harmful.

Risk Statements: Harmful by inhalation, in contact with skin and if swallowed.

Safety Statements: Wear suitable protective clothing.

UNITED STATES REGULATORY INFORMATION

SARA LISTED: No

CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: No

NDSL: No

### **Section 16 - Additional Information**

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.