



# DSL Chemicals (Shanghai) Co., Ltd.

1120, 409 – 459 Nanjing Road (E.), Shanghai 200001, China

TEL: (021) 6352 9955

FAX: (8621) 6352 9922

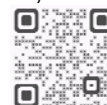
URL: www.dslchem.com

E-mail: info@dslchem.com

## MATERIAL SAFETY DATA SHEET

Version 2.0

Revision Date: Jan. 04, 2016



### Section 1 - Product and Company Information

Product Name: 1-N-Boc-Piperazine

Product Number: C007856

Company: DSL Chemicals (Shanghai) Co., Ltd

1120, 409-459 Nanjing Road (E),

Shanghai 200001, China

Technical Phone: +86 21 6352 9955

Emergency Phone: +86 21 6352 9955

Fax: +86 21 6352 9922

### Section 2 - Composition, Information on Ingredients

Substance Name

CAS #

1-N-Boc-Piperazine

57260-71-6

Formula:  $C_9H_{18}N_2O_2$

Molecular Weight: 186.25 g/mol

### Section 3 - Hazards Identification

GHS classification

PHYSICAL HAZARDS

Not classified

HEALTH HAZARDS

Skin corrosion/irritation

Category 2

Serious eye damage/eye irritation

Category 2A

ENVIRONMENTAL HAZARDS

Not classified

GHS label elements, including precautionary statements

Pictograms or hazard symbols



Signal word

Warning

Hazard statements

Causes skin irritation

Causes serious eye irritation

Precautionary statements:

[Prevention]

Wash hands thoroughly after handling.

Wear protective gloves/eye protection/face protection.

[Response]

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

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

If skin irritation occurs: Get medical advice/attention.  
Take off contaminated clothing and wash before reuse.

#### **Section 4 - First Aid Measures**

Inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
Get medical advice/attention if you feel unwell.

Skin contact:

Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

Eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion:

Get medical advice/attention if you feel unwell. Rinse mouth.

Protection of first-aiders: A rescuer should wear personal protective equipment, such as rubber gloves and airtight goggles.

#### **Section 5 - Fire Fighting Measures**

Suitable extinguishing media:

Dry chemical, foam, water spray, carbon dioxide.

Specific hazards arising from the chemical:

Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.

Precautions for firefighters:

Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so.

Special protective equipment for firefighters:

When extinguishing fire, be sure to wear personal protective equipment.

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

Personal precautions, protective equipment and emergency procedures:

Use personal 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:

Sweep dust to collect it into an airtight container, taking care not to disperse it.

Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

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

Precautions for safe handling

Technical measures:

Handling is performed in a well ventilated place. Wear suitable protective equipment.

Prevent dispersion of dust. Wash hands and face thoroughly after handling.

Use a local exhaust if dust or aerosol will be generated.

Advice on safe handling:

Avoid contact with skin, eyes and clothing.

Conditions for safe storage, including any incompatibilities

Storage conditions:

Keep container tightly closed. Store in a cool and dark place.

Store under inert gas.

Protect from moisture.

Store away from incompatible materials such as oxidizing agents.  
Hygroscopic  
Packaging material:  
Comply with laws.

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

Engineering controls:  
Install a closed system or local exhaust as possible so that workers should not be exposed directly. Also install safety shower and eye bath.  
Personal protective equipment  
Respiratory protection:  
Dust respirator. Follow local and national regulations.  
Hand protection:  
Protective gloves.  
Eye protection:  
Safety glasses. A face-shield, if the situation requires.  
Skin and body protection:  
Protective clothing. Protective boots, if the situation requires.

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

Appearance	
Form	Solid
Colour:	White to light yellow
Odour:	No data available
pH:	No data available
Melting point/freezing point:	46°C
Boiling point/range:	No data available
Flash point:	No data available
Flammability or explosive limits:	
Lower:	No data available
Upper:	No data available
Relative density:	No data available
Solubility(ies):	
[Water]	No data available
[Other solvents]	
Soluble:	Methanol

### **Section 10 - Stability and Reactivity**

Chemical stability:  
Stable under proper conditions.  
Possibility of hazardous reactions:  
No special reactivity has been reported.  
Incompatible materials:  
Oxidizing agents  
Hazardous decomposition products:  
Carbon monoxide, Carbon dioxide, Nitrogen oxides (NO<sub>x</sub>)

### **Section 11 - Toxicological Information**

No data available

### **Section 12 - Ecological Information**

No data available

### **Section 13 - Disposal Considerations**

Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system.

Observe all federal, state and local regulations when disposing of the substance.

#### **Section 14 - Transport Information**

Hazards Class: Does not correspond to the classification standard of the United Nations

UN-No: Not listed

#### **Section 15 - Regulatory Information**

Regulations on the Control over Safety of Dangerous Chemicals (State Council announces on January 26, 2002 and revised on February 16, 2011): Safe use and production, the storage of a dangerous chemical, transport, loading and unloading were prescribed.

#### **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.