



# DSL Chemicals (Shanghai) Co., Ltd.

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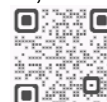
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## MATERIAL SAFETY DATA SHEET

Version 2.0

Revision Date: Jan. 04, 2016



### Section 1 - Product and Company Information

Product Name: Ethyl Bromofluoroacetate

Product Number: C004023

Company: DSL Chemicals (Shanghai) Co., Ltd

1120, 409-459 Nanjing Road (E),

Shanghai 200001, China

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### Section 2 - Composition, Information on Ingredients

Substance Name

CAS #

Ethyl Bromofluoroacetate

401-55-8

Formula: C<sub>4</sub>H<sub>6</sub>BrFO<sub>2</sub>

Molecular Weight: 184.99 g/mol

### Section 3 - Hazards Identification

GHS classification

PHYSICAL HAZARDS

Flammable liquids

Category 4

HEALTH HAZARDS

Acute toxicity (Oral)

Category 3

Acute toxicity (Dermal)

Category 3

Acute toxicity (Inhalation)

Category 3

Skin corrosion/irritation

Category 2

Serious eye damage/eye irritation

Category 2A

Germ cell mutagenicity

Category 2

ENVIRONMENTAL HAZARDS

Not classified

GHS label elements, including precautionary statements



Pictograms or hazard symbols

Signal word

Danger

Hazard statements

Combustible liquid

Toxic if swallowed, in contact with skin or if inhaled

Causes skin irritation

Causes serious eye irritation

Suspected of causing genetic defects

Precautionary statements:

[Prevention]

Obtain special instructions before use.

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

Keep away from flames and hot surfaces.

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

Use only outdoors or in a well-ventilated area.

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

Wash hands thoroughly after handling.

Wear protective gloves and eye/face protection.

[Response]

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a POISON CENTER or doctor/physician.

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

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.

Remove/Take off immediately all contaminated clothing.

Wash contaminated clothing before reuse.

IF exposed or concerned: Get medical advice/attention.

[Storage]

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

Store locked up.

[Disposal]

Dispose of contents/container through a waste management company authorized by the local government.

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

Inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a POISON CENTER or doctor/physician.

Skin contact:

Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Call a POISON CENTER or doctor/physician.

Eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Get medical advice/attention.

Ingestion:

Immediately call a POISON CENTER or doctor/physician. 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.

Unsuitable extinguishing media:

Solid streams of water

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 extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to noninvolved 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:  
Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.  
Prevention of secondary hazards:  
Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.

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

Precautions for safe handling  
Technical measures:  
Handling is performed in a well ventilated place. Wear suitable protective equipment.  
Prevent generation of vapour or mist. Keep away from flames and hot surfaces. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling.  
Use a closed system, ventilation.  
Advice on safe handling:  
Avoid all contact!  
Conditions for safe storage, including any incompatibilities  
Storage conditions:  
Keep container tightly closed. Store in a cool, dark and well-ventilated place.  
Store locked up.  
Store away from incompatible materials such as oxidizing agents.  
Packaging material:  
Comply with laws.

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

Engineering controls:  
Install a closed system or local exhaust. Also install safety shower and eye bath.  
Personal protective equipment  
Respiratory protection:  
Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.  
Hand protection: Impervious gloves.  
Eye protection:  
Safety goggles. A face-shield, if the situation requires.  
Skin and body protection:  
Impervious protective clothing. Protective boots, if the situation requires.

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

Physical state (20°C):                      Liquid

Form:	Clear
Colour:	Colorless to light yellow
Odour:	No data available
pH:	No data available
Melting point/freezing point:	No data available
Boiling point/range:	68°C/4.5kPa
Flash point:	No data available
Flammability or explosive limits:	
Lower:	No data available
Upper:	No data available
Relative density:	1.58
Solubility (ies):	
[Water]	No data available
[Other solvents]	No data available

### Section 10 - Stability and Reactivity

Chemical stability:

Stable under proper conditions.

Possibility of hazardous reactions:

No special reactivity has been reported.

Conditions to avoid:

Open flame

Incompatible materials:

Oxidizing agents

Hazardous decomposition products:

Carbon monoxide, Carbon dioxide, Hydrogen fluoride, Hydrogen bromide

### 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 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:	8
UN-No:	3265
Proper shipping name:	Ethyl Bromofluoroacetate
Packing group:	III

### 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.