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MATERIAL SAFETY DATA SHEET

Version 2.0

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Section 1 - Product and Company Information

Product Name: 5-Bromo-1-Pentene

Product Number: C007030

Company: DSL Chemicals (Shanghai) Co., Ltd
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Section 2 - Composition, Information on Ingredients

Substance Name

CAS #

5-Bromo-1-Pentene

1119-51-3

Formula: C₅H₉Br

Molecular Weight: 149.03 g/mol

Section 3 - Hazards Identification

GHS classification

PHYSICAL HAZARDS

Flammable liquids

Category 3

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

Flammable liquid and vapour

Causes skin irritation

Causes serious eye irritation

Precautionary statements:

[Prevention]

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed.

Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against ignition by the static discharge and the spark.

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 (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

[Storage]

Store in a well-ventilated place. Keep cool.

[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.

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.

Most important symptoms/effects, acute and delayed:

Burning sensation, Cough, Wheezing, Sore throat, Shortness of breath, Headache, Nausea, Vomiting

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:

Keep containers cool by spraying with water. Eliminate all ignition sources 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.

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:
Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight container. 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 heat/sparks/open flame/hot surfaces. -No smoking. 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 if possible. Use a ventilation, local exhaust if vapour 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 an explosion-proof refrigerator.

Store under inert gas.

Store away from incompatible materials such as oxidizing agents.

Heat-sensitive, Air-sensitive

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:

Vapor 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

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:	126°C
Flash point:	30°C
Flammability or explosive limits:	
Lower:	No data available
Upper:	No data available

Relative density:	1.26
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:

Spark, Open flame, Static discharge

Incompatible materials:

Oxidizing agents, Strong bases

Hazardous decomposition products:

Carbon monoxide, Carbon dioxide, 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: 3: Flammable liquid.

UN-No: 1993

Proper shipping name: Flammable liquid, n.o.s.

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.