

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product identifier**

Product name : Propargyl Bromide (stabilized with MgO)  
CAS No. : 106-96-7

**Manufacturer or supplier's details**

Company : Heynova (Shanghai) New Material Technology CO., Ltd  
Address : Building 3, No. 690 Bibo Road, Pudong New Area, Shanghai, China

Telephone : +86-178-2110-2608  
E-mail address : info@heynovachem.com

## 2. HAZARDS IDENTIFICATION



**Emergency Overview**

**Appearance** : liquid  
**Color** : colorless - yellow  
Highly flammable liquid and vapor. Toxic if swallowed. Causes skin irritation. Causes serious eye irritation.  
May cause respiratory irritation.

**GHS Classification**

Flammable liquids : Category 2  
Acute toxicity (Oral) : Category 3  
Skin corrosion/irritation : Category 2  
Serious eye damage/eye irritation : Category 2A  
Specific target organ toxicity - single exposure : Category 3 (respiratory tract irritation)

**GHS label elements**

Hazard pictograms :  

Signal Word : Danger

Hazard Statements : H225 Highly flammable liquid and vapor.  
H301 Toxic if swallowed.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

Precautionary Statements : **Prevention:**  
P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ eye protection/ face protection.

**Response:**

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P403 + P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Physical and chemical hazards**

Highly flammable liquid and vapor.

**Health hazards**

Toxic if swallowed. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

**Environmental hazards**

Not classified based on available information.

**Other hazards which do not result in classification**

None known.

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Substance

**Components**

Chemical name	CAS RN	Concentration (% w/w)
Propargyl Bromide	106-96-7	>= 97
Magnesium Oxide	1309-48-4	0.3

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**4. FIRST AID MEASURES**

If inhaled : Remove person to fresh air and keep comfortable for breathing.  
Get medical advice/ attention if you feel unwell.

In case of skin contact : Take off all contaminated clothing immediately.  
If on skin, rinse well with water.  
If skin irritation occurs: Get medical advice/ attention.

In case of eye contact : Rinse with plenty of water.

		If easy to do, remove contact lens, if worn. If eye irritation persists: Get medical advice/ attention.
If swallowed	:	Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.
Most important symptoms and effects, both acute and delayed	:	None known.

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## 5. FIRE-FIGHTING 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. Cool closed containers exposed to fire with water spray. 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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## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Wear suitable 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	:	Collect as much of the spill as possible with a suitable absorbent material.

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## 7. HANDLING AND STORAGE

### Handling

Technical measures	:	Prevent generation of vapor or mist. Take precautionary measures against static discharge. Use explosion-proof equipment.
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. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not subject to grinding, shock or friction. Wash hands and face thoroughly after handling. Open drum carefully as content may be under pressure.
Avoidance of contact	:	Oxidizing agents, Bases, Copper, Copper alloys, Mercury and mercury compounds

**Storage**

Conditions for safe storage : Keep container tightly closed.  
Store in a refrigerator.  
Keep in a well-ventilated place.  
Use explosion-proof equipment.  
Keep under inert gas.  
Store locked up.  
Avoid shock and friction.  
Avoid exposure to light.

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**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 : 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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**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Color : colorless - yellow

Odor : No data available

Odor Threshold : No data available

pH : No data available

Melting point/freezing point : -61 °C

Boiling point/boiling range : 90 °C

Flash point : 10 °C

Evaporation rate : No data available

Flammability : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : 3 %(V)

Vapor pressure : No data available

Relative vapor density : 6.87

Relative density	:	1.58
Solubility(ies)		
Water solubility	:	insoluble
Solubility in other solvents	:	soluble Solvent: Ether
		soluble Solvent: Benzene
		soluble Solvent: Ethanol
Partition coefficient: n-octanol/water (log value)	:	No data available
Autoignition temperature	:	324 °C
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Molecular weight	:	118.96 g/mol

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## 10. STABILITY AND REACTIVITY

Reactivity	:	No data available
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	May explosively decompose on heating, shock, friction, etc.
Conditions to avoid	:	Heat. Electrical spark Open flame Electrostatic discharge Avoid shock and friction. Exposure to air. Exposure to light.
Incompatible materials	:	Oxidizing agents, Bases, Copper, Copper alloys, Mercury and mercury compounds
Hazardous decomposition products	:	Carbon monoxide, Carbon dioxide (CO <sub>2</sub> ), hydrogen bromide

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## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Product:

Acute oral toxicity	:	Assessment: The component/mixture is toxic after single ingestion.
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#### Components:

#### **Propargyl Bromide:**

Acute oral toxicity	:	LD50 (Guinea pig): 0.029 mg/kg Assessment: The component/mixture is toxic after single ingestion.
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LD50 (Rat): 53 mg/kg

**Skin corrosion/irritation****Product:**

Result : Skin irritation

**Components:****Propargyl Bromide:**

Result : Skin irritation

**Serious eye damage/eye irritation****Product:**

Result : Eye irritation

**Components:****Propargyl Bromide:**

Result : Eye irritation

**Respiratory or skin sensitization** : No information available.**Germ cell mutagenicity** : No information available.**Carcinogenicity** : No information available.**Reproductive toxicity** : No information available.**STOT-single exposure** : No information available.**STOT-repeated exposure** : No information available.**Repeated dose toxicity** : No information available.**Aspiration toxicity** : No information available.**RTECS No.** : UK4375000 (Propargyl Bromide)

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**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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**13. DISPOSAL CONSIDERATIONS****Disposal methods**

- Waste from residues : Disposal in accordance with local and national regulations.  
Take precautions against ignition or explode.  
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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**14. TRANSPORT INFORMATION****International Regulations****IATA-DGR**

- UN/ID No. : UN 2345  
Proper shipping name : 3-Bromopropyne  
Class : 3  
Packing group : II

**IMDG-Code**

- UN number : UN 2345  
Proper shipping name : 3-BROMOPROPYNE  
Class : 3  
Packing group : II  
EmS Code : F-E, S-D

**Domestic regulation****GB 6944/12268**

- UN number : UN 2345  
Proper shipping name : 3-BROMOPROPYNE  
Class : 3  
Packing group : II

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**15. REGULATORY INFORMATION****Regulations on Safety Management of Hazardous Chemicals**

- Catalogue of Hazardous Chemicals : Listed

**The ingredients of this product are reported in the following inventories:**

- 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 : This product contains the following components listed on the Canadian NDSL. All other components are on the Canadian DSL.  
  
Propargyl Bromide
- ENCS : On the inventory, or 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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**16. OTHER INFORMATION**

Revision Date : 2025/02/15  
Date format : yyyy/mm/dd

**Disclaimer**

This SDS was prepared sincerely based on the information obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling operations, sufficient care should be taken, in addition to the safety measures suitable for the given situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.