

## Safety Data Sheet (MSDS)

(According to GB/T 16483, GB/T 17519, and GHS Standards)

### SECTION 1: Identification

#### 1.1 Product Identifiers

- Product Name: Ethyl Bromide (Bromoethane)
- Product Number:ETHB-20260331
- Brand:TECHPURE
- CAS-No.:74-96-4
- Synonyms: Bromoethane; Ethyl Bromide

#### 1.2 Details of the supplier of the safety data sheet

- Company : NEWAY SINOPHC TECH. LIMITED
- RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI)PILOT FREE TRADE ZONE.
- Telephone : +86-021-50350029
- Fax : +86-021-50350029

#### 1.3 Emergency telephone

Emergency Phone # : +86-021-50350029  
(CHEMTREC)

#### 1.4 Uses & Restrictions

- Identified Uses: Chemical synthesis intermediate, laboratory reagent, fumigant.
- Uses Advised Against: Food contact, medicinal purposes, unventilated enclosed space use.

### SECTION 2: Hazards Identification

#### 2.1 GHS Classification

- Flammable liquids (Category 1)
- Acute toxicity - Inhalation (Category 2)
- Skin irritation (Category 2)
- Eye irritation (Category 2)
- Carcinogenicity (Category 2B)
- Aquatic toxicity (Category 1)

#### 2.2 GHS Label Elements

- Hazard Pictogram: Flame; Skull and crossbones; Irritant; Carcinogen; Environment
- Signal Word: Danger
- Hazard Statements: H224 (Extremely flammable liquid and vapor); H331 (Toxic if inhaled); H315 (Causes skin irritation); H319 (Causes serious eye irritation); H351 (Suspected of causing cancer); H400 (Very toxic to aquatic life)



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- Precautionary Statements: P210 (Keep away from heat/sparks); P260 (Do not breathe vapor); P280 (Wear protective gloves/eye/respiratory protection); P304+P340 (If inhaled: Remove to fresh air)

## SECTION 3: Composition/Information on Ingredients

- Substance / Mixture: Pure substance
- Active Component: Ethyl Bromide (CAS 74-96-4)
- Concentration:  $\geq 99.0\%$
- Impurities:  $\leq 1.0\%$  (Water, dibromoethane)

## SECTION 4: First Aid Measures

- Inhaled: Move to fresh air; give oxygen if needed; seek emergency medical attention.
- Skin Contact: Rinse with running water for 15 minutes; remove contaminated clothing.
- Eye Contact: Rinse with plenty of water for 15 minutes; seek emergency medical attention.
- Swallowed: Do not induce vomiting; rinse mouth with water; seek immediate medical attention.

## SECTION 5: Firefighting Measures

- Suitable Extinguishing Media: Dry powder, CO<sub>2</sub>, foam, water spray.
- Special Hazards: Extremely flammable vapor; forms explosive mixtures with air; toxic fumes (HBr, CO) when burned.
- Advice for Firefighters: Wear self-contained breathing apparatus and full protective clothing.

## SECTION 6: Accidental Release Measures

- Personal Precautions: Evacuate non-essential personnel; wear full PPE; eliminate ignition sources.
- Environmental Precautions: Prevent entry into drains/watercourses; use absorbents to contain contamination.
- Clean-Up Methods: Small spills: Absorb with inert materials; large spills: Contain and transfer to sealed containers.

## SECTION 7: Handling and Storage

- Handling: Operate in well-ventilated areas with explosion-proof equipment; use anti-static tools.
- Storage: Cool, dark, well-ventilated warehouse ( $\leq 10^{\circ}\text{C}$ ); sealed, away from heat/sparks/oxidizers.
- Incompatibilities: Strong oxidizers, strong reducers, metals, alkalis.

## SECTION 8: Exposure Controls/Personal Protection

- PPE: Chemical safety goggles/face shield; nitrile rubber gloves; organic vapor respirator (P100).
- Exposure Limits: TWA (8h): 20 ppm (OSHA); STEL (15min): 30 ppm (OSHA); IARC Group 2B.

## SECTION 9: Physical and Chemical Properties

- Physical State: Liquid; Color: Colorless; Odor: Sweet ether-like



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- Melting Point: -118.6°C; Boiling Point: 38°C; Flash Point: -23°C
- Density (20°C): 1.461 g/cm<sup>3</sup>; Viscosity (20°C): 0.43 mPa·s
- Water Solubility: Slightly soluble; Vapor Pressure (25°C): 53.3 kPa
- Explosive Limits: 6.7-11.3% (v/v); Autoignition Temperature: 511°C

## SECTION 10: Stability and Reactivity

- Stability: Stable under normal conditions.
- Hazardous Reactions: Reacts violently with strong oxidizers/reducers, metals, and alkalis; decomposes at high temperature to release toxic gases.

## SECTION 11: Toxicological Information

- Acute Toxicity: Oral (Rat, LD<sub>50</sub>): 1350 mg/kg; Inhalation (Rat, LC<sub>50</sub>): 2600 ppm (4h)
- Skin/Eye Irritation: Moderate skin irritation; serious eye irritation.
- Chronic Toxicity: Suspected carcinogen; long-term exposure may cause liver/kidney damage.

## SECTION 12: Ecological Information

- Aquatic Toxicity: Fish (Rainbow Trout, LC<sub>50</sub>): 50 mg/L (96h); Daphnia (EC<sub>50</sub>): 80 mg/L (48h)
- Biodegradability: Moderately biodegradable (BOD<sub>5</sub>/COD = 0.3-0.4)

## SECTION 13: Disposal Considerations

- Product Waste: Dispose as hazardous waste; incinerate in approved facilities.
- Packaging Waste: Rinse with solvent; dispose as hazardous waste or recycle.

## SECTION 14: Transport Information

- UN Number: 1891
- UN Proper Shipping Name: ETHYL BROMIDE
- Transport Hazard Class: 3 (Flammable liquid)
- Packaging Group: I
- Marine Pollutant: Yes
- Transport Precautions: Avoid direct sunlight, high temperature, and collision; transport at ≤ 10°C.

## SECTION 15: Regulatory Information

- National Regulations: Hazardous Chemical Safety Management Regulation; Environmental Protection Law.
- International Regulations: GHS (Rev. 9); REACH (EU, listed); TSCA (US, listed); IMDG Code; IARC Group 2B.

## SECTION 16: Other Information

- Revision Date: 31 MAR 2026
- Disclaimer: This MSDS is based on current data; supplier not liable for improper use.