

## Safety Data Sheet (MSDS)

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

### SECTION 1: Identification

#### 1.1 Product Identifiers

- Product Name: Butyl Acetate (n-Butyl Acetate)
- Product Number: BA-20260225
- Brand: TECHPURE
- CAS-No.: 123-86-4
- Synonyms: n-Butyl Acetate; Acetic Acid n-Butyl Ester

#### 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: Industrial solvent, chemical synthesis intermediate, laboratory reagent, food flavoring (food-grade).
- Uses Advised Against: Unauthorized food use (industrial grade), and use in unventilated enclosed spaces.

### SECTION 2: Hazards Identification

#### 2.1 GHS Classification

- Flammable liquids (Category 3)
- Acute toxicity - Inhalation (Category 3)
- Skin irritation (Category 2)
- Eye irritation (Category 2)
- Aquatic toxicity (Category 2)

#### 2.2 GHS Label Elements

- Hazard Pictogram: Flame; Irritant; Environment
- Signal Word: Warning
- Hazard Statements: H226 (Flammable liquid and vapor); H332 (Harmful if inhaled); H315 (Causes skin irritation); H319 (Causes serious eye irritation); H401 (Toxic to aquatic life)

- Precautionary Statements: P210 (Keep away from heat, hot surfaces, sparks, open flames); P260 (Do not breathe vapor); P280 (Wear protective gloves/eye protection); P304+P340 (If inhaled: Remove to fresh air and keep at rest); P391 (Collect spillage); P403+P233 (Store in a well-ventilated place; keep container tightly closed)

2.3 Physical & Chemical Hazards: Flammable vapor; forms explosive mixtures with air (1.2-7.5% v/v).2.4 Health Hazards: Harmful if inhaled; causes skin/eye irritation; excessive inhalation may cause dizziness.2.5 Environmental Hazards: Toxic to aquatic organisms; biodegradable with proper treatment.2.6 Other Hazards: None.

### **SECTION 3: Composition/Information on Ingredients**

- Substance / Mixture: Pure substance
- Active Component: Butyl Acetate (CAS 123-86-4)
- Concentration:  $\geq 99.5\%$
- Impurities:  $\leq 0.5\%$  (Water, trace esters)

### **SECTION 4: First Aid Measures**

- Inhaled: Remove to fresh air immediately. Keep patient calm; seek medical attention if dizziness persists.
- Skin Contact: Remove contaminated clothing. Rinse skin thoroughly with running water for 15 minutes.
- Eye Contact: Hold eyes open and rinse continuously with plenty of running water for 15 minutes. Seek medical attention if irritation persists.
- Swallowed: Do not induce vomiting. Rinse mouth with water. Seek medical attention if discomfort occurs.

### **SECTION 5: Firefighting Measures**

- Suitable Extinguishing Media: Dry powder, carbon dioxide (CO<sub>2</sub>), foam, water spray.
- Unsuitable Extinguishing Media: None.
- Special Hazards: Vapors are heavier than air and may travel to ignition sources. Toxic fumes (carbon monoxide) generated when burning.
- Advice for Firefighters: Wear self-contained breathing apparatus and full protective clothing. Cool containers with water spray from a safe distance.

### **SECTION 6: Accidental Release Measures**

- Personal Precautions: Evacuate non-essential personnel. Wear appropriate PPE and ensure good ventilation. Eliminate all ignition sources.
- Environmental Precautions: Prevent spillage from entering drains or watercourses.
- Clean-Up Methods: Small spills: Absorb with inert materials (sand, vermiculite) and dispose of as hazardous waste. Large spills: Contain with dikes; transfer to sealed containers for disposal.

### **SECTION 7: Handling and Storage**

- Handling Precautions: Operate in well-ventilated areas with explosion-proof electrical equipment. Avoid skin/eye contact and inhalation. Use anti-static tools.
- Storage Conditions: Store in cool, dry, well-ventilated warehouses (temperature  $\leq 30^{\circ}\text{C}$ ). Keep container tightly closed. Store away from oxidizing agents, heat, and ignition sources.
- Incompatibilities: Strong oxidizers, acids, alkalis.

## **SECTION 8: Exposure Controls/Personal Protection**

- Engineering Controls: Install local exhaust ventilation; use explosion-proof equipment.
- Personal Protective Equipment:
  - Eye/Face Protection: Chemical safety goggles.
  - Skin Protection: Nitrile rubber gloves, protective clothing.
  - Respiratory Protection: Not required under normal handling; use respirator if ventilation is insufficient.
- Exposure Limits: TWA (8h): 150 ppm (OSHA); STEL (15min): 200 ppm (OSHA).

## **SECTION 9: Physical and Chemical Properties**

- Physical State: Liquid
- Color: Colorless
- Odor: Fruity odor
- Melting Point:  $-73.5^{\circ}\text{C}$
- Boiling Point:  $126.1^{\circ}\text{C}$
- Flash Point (Closed Cup):  $22^{\circ}\text{C}$
- Autoignition Temperature:  $370^{\circ}\text{C}$
- Density ( $20^{\circ}\text{C}$ ):  $0.882\text{ g/cm}^3$
- Viscosity ( $20^{\circ}\text{C}$ ):  $0.73\text{ mPa}\cdot\text{s}$
- Water Solubility: Slightly soluble ( $10\text{ g/L}$  at  $25^{\circ}\text{C}$ )
- Vapor Pressure ( $20^{\circ}\text{C}$ ):  $1.3\text{ kPa}$
- Explosive Limits: 1.2-7.5% (v/v)

## **SECTION 10: Stability and Reactivity**

- Stability: Stable under normal conditions.
- Hazardous Reactions: Reacts violently with strong oxidizers and acids.
- Conditions to Avoid: Heat, sparks, open flames, strong oxidizers.
- Incompatible Materials: Oxidizing agents, acids, alkalis.
- Hazardous Decomposition Products: Carbon monoxide, carbon dioxide (when burned).

## **SECTION 11: Toxicological Information**

- Acute Toxicity: Oral (Rat,  $\text{LD}_{50}$ ):  $13000\text{ mg/kg}$ ; Inhalation (Rat,  $\text{LC}_{50}$ ):  $7000\text{ ppm}$  (4h).
- Skin Irritation: Causes mild skin irritation; reversible with proper cleaning.
- Eye Irritation: Causes serious eye irritation; temporary corneal discomfort.

- Chronic Toxicity: Long-term excessive exposure may cause liver/kidney mild damage.
- Reproductive Toxicity: No known reproductive toxicity at recommended exposure levels.

## SECTION 12: Ecological Information

- Aquatic Toxicity: Fish (Rainbow Trout, LC<sub>50</sub>): 3000 mg/L (96h); Daphnia (EC<sub>50</sub>): 4000 mg/L (48h).
- Biodegradability: Moderately biodegradable (BOD<sub>5</sub> /COD = 0.5-0.6).
- Bioaccumulative Potential: Low bioaccumulation (log K<sub>oc</sub> = 1.8).
- Environmental Fate: Volatilizes slowly from water; biodegradable in soil.

## SECTION 13: Disposal Considerations

- Waste Treatment: Dispose of as hazardous waste in accordance with local, national, and international regulations. Incinerate in facilities equipped with emission control systems.
- Packaging Waste: Rinse containers thoroughly with compatible solvent; dispose of as hazardous waste or recycle.

## SECTION 14: Transport Information

- UN Number: 1123
- UN Proper Shipping Name: BUTYL ACETATE
- Transport Hazard Class: 3 (Flammable liquid)
- Packaging Group: III
- Marine Pollutant: No
- Transport Precautions: Transport in UN-approved hazardous goods containers. Avoid direct sunlight, high temperature, and collision.

## SECTION 15: Regulatory Information

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

## SECTION 16: Other Information

- Revision Date: 25 FEB 2026
- Disclaimer: This MSDS is based on current scientific data. The supplier is not liable for damages caused by improper use or non-compliance with safety precautions.