

## Safety Data Sheet (MSDS)

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

### SECTION 1: Identification

#### 1.1 Product Identifiers

- Product Name: Methyl Benzoate
- Product Number: MB-20260311
- Brand: TECHPURE
- CAS-No.: 93-58-3
- Synonyms: Benzoic Acid Methyl Ester; Methyl Benzylate

#### 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: Fragrance ingredient, industrial solvent, chemical synthesis intermediate, laboratory reagent.
- Uses Advised Against: Food contact (unapproved), medicinal purposes, unventilated enclosed space use.

### SECTION 2: Hazards Identification

#### 2.1 GHS Classification

- Flammable liquids (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); H315 (Causes skin irritation); H319 (Causes serious eye irritation); H401 (Toxic to aquatic life)

- 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); P391 (Collect spillage)

2.3 Physical & Chemical Hazards: Flammable vapor; forms explosive mixtures with air (1.2-8.0%

v/v).2.4 Health Hazards: Skin/eye irritation; excessive inhalation may cause dizziness.2.5

Environmental Hazards: Toxic to aquatic life; moderately biodegradable.2.6 Other Hazards:

None.

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

- Substance / Mixture: Pure substance
- Active Component: Methyl Benzoate (CAS 93-58-3)
- Concentration:  $\geq 99.0\%$
- Impurities:  $\leq 1.0\%$  (Water, benzoic acid)

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

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

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

- Suitable Extinguishing Media: Dry powder, CO<sub>2</sub>, foam, water spray.
- Unsuitable Extinguishing Media: None.
- Special Hazards: Vapors are heavier than air; toxic fumes (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.
- 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, dry, well-ventilated warehouse ( $\leq 30^{\circ}\text{C}$ ); sealed, away from heat/sparks/oxidizers.
- Incompatibilities: Strong oxidizers, acids, bases.
- Shelf Life: 12 months (unopened).

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

- Engineering Controls: Local exhaust ventilation; explosion-proof equipment.
- PPE: Chemical safety goggles/face shield; nitrile rubber gloves; organic vapor respirator.
- Exposure Limits: TWA (8h): 50 ppm (proposed).

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

- Physical State: Liquid; Color: Colorless; Odor: Pleasant aromatic
- Melting Point: -12.3°C; Boiling Point: 199.5°C; Flash Point: 82°C
- Density (20°C): 1.084 g/cm<sup>3</sup>; Viscosity (20°C): 2.5 mPa·s
- Water Solubility: Slightly soluble (2.4 g/L at 25°C); Vapor Pressure (20°C): 0.01 kPa
- Explosive Limits: 1.2-8.0% (v/v); Autoignition Temperature: 545°C

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

- Stability: Stable under normal conditions.
- Hazardous Reactions: Reacts violently with strong oxidizers/acids.
- Conditions to Avoid: Heat, sparks, open flames, strong oxidizers.
- Incompatible Materials: Oxidizing agents, strong acids, bases.
- Hazardous Decomposition Products: CO, CO<sub>2</sub> (when burned).

## **SECTION 11: Toxicological Information**

- Acute Toxicity: Oral (Rat, LD<sub>50</sub>): 3300 mg/kg; Inhalation (Rat, LC<sub>50</sub>): > 4000 ppm (4h)
- Skin/Eye Irritation: Mild skin irritation; serious eye irritation.
- Chronic Toxicity: No known chronic effects.
- Reproductive Toxicity: No known reproductive toxicity.

## **SECTION 12: Ecological Information**

- Aquatic Toxicity: Fish (Zebrafish, LC<sub>50</sub>): 500 mg/L (96h); Daphnia (EC<sub>50</sub>): 800 mg/L (48h)
- Biodegradability: Moderately biodegradable (BOD<sub>5</sub>/COD = 0.4-0.5)
- Bioaccumulative Potential: Low (log K<sub>oc</sub> = 1.8).

## **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: 2938
- UN Proper Shipping Name: ESTERS, N.O.S. (Methyl Benzoate)
- Transport Hazard Class: 3; Packaging Group: III
- Marine Pollutant: No
- Transport Precautions: Avoid direct sunlight, high temperature, and collision.

## **SECTION 15: Regulatory Information**

- National Regulations: Hazardous Chemical Safety Management Regulation; Environmental Protection Law.



## NEWAY SINOPHC TECH. LIMITED

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- International Regulations: GHS (Rev. 9); REACH (EU, listed); TSCA (US, listed); IMDG Code.

### **SECTION 16: Other Information**

- Revision Date: 11 MAR 2026
- Disclaimer: This MSDS is based on current data; supplier not liable for improper use.

