

## Safety Data Sheet (MSDS)

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

### SECTION 1: Identification

#### 1.1 Product Identifiers

- Product Name: Hydroquinone (1,4-Benzenediol)
- Product Number: HQ-20260323
- Brand: TECHPURE
- CAS-No.: 123-31-9
- Synonyms: 1,4-Benzenediol; Quinol

#### 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, polymerization inhibitor, laboratory reagent.
- Uses Advised Against: Cosmetic use (unapproved concentrations), food contact, medicinal purposes.

### SECTION 2: Hazards Identification

#### 2.1 GHS Classification

- Acute toxicity - Oral (Category 3)
- Skin irritation (Category 2)
- Eye irritation (Category 2)
- Carcinogenicity (Category 2B)
- Aquatic toxicity (Category 1)

#### 2.2 GHS Label Elements

- Hazard Pictogram: Skull and crossbones; Irritant; Carcinogen; Environment
- Signal Word: Warning
- Hazard Statements: H301 (Toxic if swallowed); H315 (Causes skin irritation); H319 (Causes serious eye irritation); H351 (Suspected of causing cancer); H400 (Very toxic to aquatic life)

- Precautionary Statements: P260 (Do not breathe dust); P280 (Wear protective gloves/eye/respiratory protection); P304+P340 (If inhaled: Remove to fresh air); P391 (Collect spillage)

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

- Substance / Mixture: Pure substance
- Active Component: Hydroquinone (CAS 123-31-9)
- Concentration:  $\geq 99.0\%$
- Impurities:  $\leq 1.0\%$  (Water, phenol)

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

- Inhaled: Move to fresh air; 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 immediate medical attention.

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

- Suitable Extinguishing Media: Dry powder, CO<sub>2</sub>, foam, water spray.
- Special Hazards: Slightly flammable; 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; use absorbents to contain contamination.
- Clean-Up Methods: Small spills: Sweep with inert materials; large spills: Transfer to sealed containers.

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

- Handling: Operate in well-ventilated areas; avoid dust generation.
- Storage: Cool, dark, well-ventilated warehouse ( $\leq 30^{\circ}\text{C}$ ); sealed, away from heat/sparks/oxidizers.
- Incompatibilities: Strong oxidizers, acids, alkalis.

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

- PPE: Dust mask (P100), chemical safety goggles, nitrile rubber gloves.
- Exposure Limits: TWA (8h): 2 mg/m<sup>3</sup> (OSHA); STEL (15min): 5 mg/m<sup>3</sup> (OSHA); IARC Group 2B.

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

- Physical State: Solid; Color: White to off-white; Odor: Faint phenolic
- Melting Point: 173.5°C; Boiling Point: 287°C; Flash Point: 165°C
- Density (20°C): 1.33 g/cm<sup>3</sup>; Solubility: Slightly soluble in water

- Vapor Pressure (25°C): < 0.001 kPa; Autoignition Temperature: 516°C

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

- Stability: Stable under normal conditions; oxidizes in air and sunlight.
- Hazardous Reactions: Reacts violently with strong oxidizers/acids.

## **SECTION 11: Toxicological Information**

- Acute Toxicity: Oral (Rat, LD<sub>50</sub>): 320 mg/kg; Inhalation (Rat, LC<sub>50</sub>): > 4000 mg/m<sup>3</sup> (4h)
- Skin/Eye Irritation: Mild 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>): 10 mg/L (96h); Daphnia (EC<sub>50</sub>): 20 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 water; dispose as hazardous waste or recycle.

## **SECTION 14: Transport Information**

- UN Number: 2662
- UN Proper Shipping Name: HYDROQUINONE
- Transport Hazard Class: 6.1 (Toxic substances)
- Packaging Group: III
- Marine Pollutant: Yes

## **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: 23 MAR 2026
- Disclaimer: This MSDS is based on current data; supplier not liable for improper use.