

## Safety Data Sheet (MSDS)

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

### SECTION 1: Identification

#### 1.1 Product Identifiers

- Product Name: Phthalic Anhydride
- Product Number:PA-20260402
- Brand:TECHPURE
- CAS-No.:85-44-9
- Synonyms: 1,2-Benzenedicarboxylic Anhydride; Phthalic Acid Anhydride

#### 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: Plasticizer precursor, resin synthesis, chemical intermediate.
- Uses Advised Against: Food contact, medicinal purposes, unventilated enclosed space use.

### SECTION 2: Hazards Identification

#### 2.1 GHS Classification

- Flammable solids (Category 2)
- Skin corrosion/irritation (Category 1)
- Eye damage/eye irritation (Category 1)
- Aquatic toxicity (Category 1)

#### 2.2 GHS Label Elements

- Hazard Pictogram: Flame; Corrosion; Environment
- Signal Word: Danger
- Hazard Statements: H228 (Flammable solid); H314 (Causes severe skin burns and eye damage); H400 (Very toxic to aquatic life)
- Precautionary Statements: P210 (Keep away from heat/sparks); P260 (Do not breathe dust); P280 (Wear protective gloves/eye/face protection); P304+P340 (If inhaled: Remove to fresh air)

### SECTION 3: Composition/Information on Ingredients

- Substance / Mixture: Pure substance



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- Active Component: Phthalic Anhydride (CAS 785-44-9)
- Concentration:  $\geq 99.0\%$
- Impurities:  $\leq 1.0\%$  (Water, phthalic acid)

## 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 15-20 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: Flammable solid; toxic fumes (CO) when burned; reacts with water to form corrosive acid.
- 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; neutralize with alkaline absorbents.
- 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, dry, well-ventilated warehouse ( $\leq 30^{\circ}\text{C}$ ); sealed, away from heat/moisture.
- Incompatibilities: Strong bases, oxidizers, water.

## SECTION 8: Exposure Controls/Personal Protection

- PPE: Dust mask (P100), chemical safety goggles, face shield, nitrile rubber gloves.
- Exposure Limits: TWA (8h): 10 ppm (OSHA); STEL (15min): 20 ppm (OSHA).

## SECTION 9: Physical and Chemical Properties

- Physical State: Solid; Color: White to off-white; Odor: Faint aromatic
- Melting Point:  $132^{\circ}\text{C}$ ; Boiling Point:  $284^{\circ}\text{C}$ ; Flash Point:  $152^{\circ}\text{C}$
- Density ( $20^{\circ}\text{C}$ ):  $1.53\text{ g/cm}^3$ ; Solubility: Reacts with water
- Vapor Pressure ( $25^{\circ}\text{C}$ ):  $< 0.001\text{ kPa}$ ; Autoignition Temperature:  $570^{\circ}\text{C}$

## SECTION 10: Stability and Reactivity

- Stability: Stable under normal conditions; reacts violently with water.
- Hazardous Reactions: Reacts with water to form phthalic acid (corrosive); reacts with strong bases.

## SECTION 11: Toxicological Information

- Acute Toxicity: Oral (Rat, LD<sub>50</sub>): 4020 mg/kg; Inhalation (Rat, LC<sub>50</sub>): 500 mg/m<sup>3</sup> (4h)
- Skin/Eye Corrosion: Severe skin burns; permanent eye damage risk.
- Chronic Toxicity: Long-term exposure may cause respiratory irritation.

## SECTION 12: Ecological Information

- Aquatic Toxicity: Fish (Zebrafish, 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; neutralize with alkali before disposal.
- Packaging Waste: Rinse with solvent; dispose as hazardous waste or recycle.

## SECTION 14: Transport Information

- UN Number: 2214
- UN Proper Shipping Name: PHTHALIC ANHYDRIDE
- Transport Hazard Class: 8 (Corrosive substances); Packaging Group: II
- Marine Pollutant: Yes
- Transport Precautions: Avoid direct sunlight, high temperature, and moisture.

## 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.

## SECTION 16: Other Information

- Revision Date:02 APR 2026
- Disclaimer: This MSDS is based on current data; supplier not liable for improper use.