

Safety Data Sheet (MSDS)

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

SECTION 1: Identification

1.1 Product Identifiers

- Product Name: Maleic Anhydride
- Product Number:MA-20260403
- Brand:TECHPURE
- CAS-No.:108-31-6
- Synonyms: cis-Butenedioic Anhydride; Maleic 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: Polymer synthesis, chemical intermediate, resin precursor.
- 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: Maleic Anhydride (CAS 7108-31-6)
- Concentration: $\geq 99.0\%$
- Impurities: $\leq 1.0\%$ (Water, maleic 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, CO₂, 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 and moisture.
- Storage: Cool, dry, well-ventilated warehouse ($\leq 25^{\circ}\text{C}$); sealed, moisture-proof.
- 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): 0.25 ppm (OSHA); STEL (15min): 0.75 ppm (OSHA).

SECTION 9: Physical and Chemical Properties

- Physical State: Solid; Color: White to pale yellow; Odor: Pungent
- Melting Point: 53.5°C ; Boiling Point: 202°C ; Flash Point: 103°C
- Density (20°C): 1.48 g/cm^3 ; Solubility: Reacts violently with water
- Vapor Pressure (25°C): 0.01 kPa; Autoignition Temperature: 477°C

SECTION 10: Stability and Reactivity

- Stability: Stable under normal conditions; reacts violently with water.
- Hazardous Reactions: Reacts with water to form maleic acid (corrosive); polymerizes with initiators.

SECTION 11: Toxicological Information

- Acute Toxicity: Oral (Rat, LD₅₀): 400 mg/kg; Inhalation (Rat, LC₅₀): 400 mg/m³ (4h)
- Skin/Eye Corrosion: Severe skin burns; permanent eye damage risk.
- Chronic Toxicity: Long-term exposure may cause respiratory and liver irritation.

SECTION 12: Ecological Information

- Aquatic Toxicity: Fish (Rainbow Trout, LC₅₀): 30 mg/L (96h); Daphnia (EC₅₀): 50 mg/L (48h)
- Biodegradability: Moderately biodegradable (BOD₅ /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: 2215
- UN Proper Shipping Name: MALEIC 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:03 APR 2026
- Disclaimer: This MSDS is based on current data; supplier not liable for improper use.