

Safety Data Sheet (MSDS)

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

SECTION 1: Identification

1.1 Product Identifiers

- Product Name: Sodium Carbonate (Anhydrous, Industrial Grade)
- Product Number:Na2CO3-20260219
- Brand:TECHPURE
- CAS-No.:497-19-8
- Synonyms: Soda Ash; Anhydrous Sodium Carbonate; Soda

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: Glass production, chemical synthesis, water treatment, detergent manufacturing, laboratory reagent.
- Uses Advised Against: Food contact (use food grade instead), unventilated enclosed space large-scale operation.

SECTION 2: Hazards Identification

2.1 GHS Classification

- Skin irritation (Category 2)
- Eye irritation (Category 2)
- 2.2 GHS Label Elements
- Hazard Pictogram: Irritant ()
- Signal Word: Warning
- Hazard Statements: H315 (Causes skin irritation); H319 (Causes serious eye irritation)
- Precautionary Statements: P264 (Wash hands thoroughly after handling); P280 (Wear protective gloves/eye protection); P305+P351+P338 (If in eyes: Rinse cautiously with water for several minutes)

SECTION 3: Composition/Information on Ingredients

- Substance / Mixture: Pure substance
- Active Component: Sodium Carbonate (CAS 497-19-8)
- Concentration: ≥ 99.2%
- Impurities: ≤ 0.8% (Moisture, chloride, sulfate, trace metals)

SECTION 4: First Aid Measures



NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

- Inhaled: Move to fresh air; if coughing or discomfort occurs, rinse mouth with water and rest; seek medical attention if symptoms persist.
- Skin Contact: Remove contaminated clothing; rinse the affected area with plenty of running water for 10 minutes; no special ointment required.
- Eye Contact: Hold eyes open and rinse continuously with plenty of running water for 15 minutes; remove contact lenses if worn; consult an ophthalmologist if irritation persists.
- Swallowed: Do not induce vomiting; drink plenty of water or milk (200-300 mL); seek medical attention if abdominal pain or nausea occurs.

SECTION 5: Firefighting Measures

- Suitable Extinguishing Media: Water spray, dry powder, CO₂, foam - any fire extinguishing media can be used.
- Special Hazards: Non-flammable, no combustion-supporting property, no hazardous combustion products (only Na₂O and CO₂ at high temperature decomposition).
- Advice for Firefighters: Wear standard fire-fighting protective equipment; cool the package with water spray if the fire is near the product to prevent moisture absorption.

SECTION 6: Accidental Release Measures

- Personal Precautions: Wear dust mask (KN95) and nitrile rubber gloves; avoid dust inhalation and contact with skin/eyes.
- Environmental Precautions: Prevent large quantities of dissolved products from entering water bodies to avoid pH increase.
- Clean-Up Methods: Small spills: Sweep and collect into sealed containers; large spills: Transfer to special collection containers, clean the site with a small amount of water (neutralize with dilute acid if necessary).

SECTION 7: Handling and Storage

- Handling: Avoid dust generation during operation; use closed feeding equipment if possible; seal the package after use to prevent moisture absorption.
- Storage: Cool, dry, well-ventilated warehouse; sealed storage, separate from acids, hygroscopic substances and food raw materials.
- Incompatibilities: Strong acids (HCl, H₂SO₄), acidic salts, water-reactive substances.

SECTION 8: Exposure Controls/Personal Protection

- PPE: Safety glasses, nitrile rubber gloves, dust mask (KN95) for powder handling; chemical-resistant clothing for large-scale operation.
- Exposure Limits: TWA (8h): 2 mg/m³ (OSHA, dust); STEL (15min): 5 mg/m³ (OSHA, dust).
- Engineering Controls: Local exhaust ventilation for powder operation to reduce dust concentration.

SECTION 9: Physical and Chemical Properties

- Physical State: Solid (powder/light powder); Color: White; Odor: Odorless



NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

- Melting Point: 851 °C; Boiling Point: > 1000°C (decomposes to Na₂O and CO₂); Density (20°C): 2.532 g/cm³
- Solubility (25°C): 21.5 g/100 mL water; Soluble in glycerol, insoluble in ethanol/ether
- Vapor Pressure (25°C): < 0.001 kPa; pH Value (10% aqueous solution): 12.0
- Hygroscopy: Slight hygroscopy; deliquescence in high humidity (RH > 80%) environment.
- Reaction with Water: Slight exotherm, no hazardous reaction.

SECTION 10: Stability and Reactivity

- Stability: Stable under normal temperature, pressure and storage conditions; no decomposition.
- Hazardous Reactions: Reacts violently with concentrated strong acids to produce a large amount of CO₂ gas (may cause splashing); no reaction with bases/neutral substances.
- Decomposition Products: Na₂O (alkaline oxide) and CO₂ (non-toxic) at high temperature (> 1000°C).

SECTION 11: Toxicological Information

- Acute Toxicity: Oral (Rat, LD₅₀): 4090 mg/kg; Inhalation (Rat, LC₅₀): > 5000 mg/m³ (4h)
- Skin/Eye Irritation: Mild skin irritation (Rabbit test, 24h); moderate eye irritation (Rabbit test, 72h).
- Chronic Toxicity: No chronic toxic effect for long-term normal contact; long-term inhalation of dust may cause respiratory tract irritation.

SECTION 12: Ecological Information

- Aquatic Toxicity: Fish (Rainbow Trout, LC₅₀): 1200 mg/L (96h); Daphnia (EC₅₀): 800 mg/L (48h) (toxicity caused by pH increase).
- Biodegradability: Inorganic substance, non-biodegradable; neutralize with acid before discharge to avoid environmental pH pollution.
- Bioaccumulation: No bioaccumulation in aquatic/terrestrial organisms.

SECTION 13: Disposal Considerations

- Product Waste: Dispose as non-hazardous solid waste; can be recycled for industrial use (e.g., neutralization of acidic wastewater).
- Packaging Waste: Rinse with water, remove the inner lining, and recycle or dispose as general solid waste.
- Disposal Requirements: Comply with local environmental protection regulations; neutralize with dilute acid if the waste is discharged into water bodies.

SECTION 14: Transport Information

- UN Number: None (Non-hazardous goods)
- UN Proper Shipping Name: Not dangerous goods
- Transport Hazard Class: None; Packaging Group: None
- Marine Pollutant: No
- Transport Precautions: Avoid rain, moisture and package damage during transportation; no mixing with acids in the same vehicle.



NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

SECTION 15: Regulatory Information

- National Regulations: Complies with GB/T 210-2021 Industrial Soda Ash, Hazardous Chemical Safety Management Regulation (non-hazardous).
- International Regulations: GHS (Rev. 9); REACH (EU, listed); TSCA (US, listed); EINECS (207-838-8).

SECTION 16: Other Information

- Revision Date:19 FEB 2026
- Disclaimer: This MSDS is based on current technical data; the supplier shall not be liable for any loss caused by improper use or non-compliance with operating requirements.

