巩义市滤料工业有限公司
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Material Safety Data Sheet
Sodium Carbonate

Section 1: Chemical Product and Company Identification

Product Name: Sodium Carbonate

Brand: Southwest Water Innovations

Synonyms: Soda Ash; Disodium Carbonate; Carbonic Acid, Disodium Salt

CAS No.: 497-19-8

Molecular Formula: Na_2CO_3

Recommended Use: pH adjustment / alkalinity buffer for drinking water, wastewater and industrial water treatment.

Uses Advised Against: Food, drug, pesticide or biocidal product use.

Produced For / Distributed By: Southwest Water Innovations LLC, 4539 N 22nd St, STE N, Phoenix, AZ 85016

Telephone: 602-742-0002

Company Identification

Name of the Company: Gongyi Filter Industry Co., Ltd

Address: No. 8 Chaoyang West Road, Gongyi Industry Area, Gongyi, Henan, China

Post Code: 451200

Telephone: 0371-64133426 **Fax:** 0371-64133719

E-mail: info@lvyuanchem.com **Web:** www.lvyuanchem.com

Emergency Telephone Number: 0371-64133426

Section 2: Hazard(s) Identification

Classification (GHS) – per US OSHA Hazard Communication Standard, 29 CFR 1910.1200

Hazard Class	Category
Serious eye damage/eye irritation	Category 2



Signal Word: Warning

Hazard Statements: Causes serious eye irritation.

Precautionary Statements

Prevention: Wash face, hands and any exposed skin thoroughly after handling. Wear eye/face protection. Keep only in original packaging.

Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Storage: Store in a dry place. Store in a closed container.

Other Hazards: None identified beyond the classification above.

Section 3: Composition and Information on Ingredients

Component	CAS No.	Concentration (wt %)
Sodium Carbonate	497-19-8	≤ 100%

Note: hazard, exposure-limit and toxicological data in this SDS are referenced against sodium carbonate, CAS 497-19-8, per supplier safety data sheet cross-reference (Thermo Fisher Scientific, Revision Date 18-Dec-2025).

Section 4: First-Aid Measures

Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Skin Contact: Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.

Inhalation: Remove to fresh air. If symptoms arise, call a physician. If not breathing, give artificial respiration.

Ingestion: Clean mouth with water and drink afterward plenty of water. Get medical attention if symptoms occur.

Most Important Symptoms/Effects: None reasonably foreseeable beyond eye/skin/respiratory irritation described in Section 11.

Notes to Physician: Treat symptomatically.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media: Use an extinguishing agent suitable for the surrounding fire; the product itself is not combustible.

Unsuitable Extinguishing Media: No information available.

Specific Hazards: Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products: Sodium oxides.

Hazard Ratings (0 = minimal, 1 = slight, 2 = moderate, 3 = serious, 4 = severe)

Health	Flammability	Instability	Physical Hazards
2	0	1	N/A

Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus, pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6: Accidental Release Measures

Personal Precautions: Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

Environmental Precautions: Should not be released into the environment.

Containment and Clean-Up: Sweep up and shovel into suitable containers for disposal.

Section 7: Handling and Storage

Handling: Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid dust formation. Avoid ingestion and inhalation.

Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible materials: strong oxidizing agents, strong acids, fluorine, metals.

Section 8: Exposure Controls / Personal Protection

Occupational Exposure Limits: This product does not contain any hazardous materials with occupational exposure limits established by region-specific regulatory bodies.

Engineering Controls: Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

Eye/Face Protection: Wear appropriate protective eyeglasses or chemical safety goggles per 29 CFR 1910.133 or EN 166. Tight sealing safety goggles.

Skin and Body Protection: Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection: Follow the OSHA respirator regulations in 29 CFR 1910.134 or EN 149. Use a NIOSH/MSHA- or EN 149-approved respirator if exposure limits are exceeded or irritation is experienced.

Section 9: Physical and Chemical Properties

Appearance: White solid

Odor: Odorless

Odor Threshold: No information available

pH: 11.3 @ 20 °C (10 g/L aqueous solution)

Melting Point/Range: 854 °C / 1569.2 °F

Boiling Point/Range: 1600 °C / 2912 °F @ 760 mmHg

Decomposition Temperature: 400 °C

Density / Specific Gravity: 2.53

Water Solubility: 212 g/L @ 20 °C

Flash Point: Not applicable (non-combustible solid)

Flammability: Not flammable

Vapor Pressure / Vapor Density: Not applicable (solid)

Viscosity: Not applicable (solid)

Molecular Weight: 105.99 g/mol

Section 10: Stability and Reactivity

Stability: Hygroscopic. Stable under normal conditions; no reactive hazard known based on available information.

Conditions to Avoid: Dust formation, excess heat, exposure to moist air or water.

Incompatible Materials: Strong oxidizing agents, strong acids, fluorine, metals.

Hazardous Decomposition Products: Sodium oxides.

Hazardous Polymerization: Does not occur.

Section 11: Toxicological Information

Acute Toxicity: Oral LD50 (rat): 2800 mg/kg. Dermal LD50 (rabbit): > 2000 mg/kg. Inhalation LC50 (rat): 2.3 mg/L (2 h) — does not meet GHS Category 4 criteria for oral or dermal routes; not classified for acute toxicity.

Skin Corrosion/Irritation: Based on available data, the classification criteria are not met. Irritating to skin; may be harmful in contact with skin.

Serious Eye Damage/Irritation: Category 2 — causes serious eye irritation. Moderately irritating; lachrymator.

Skin/Respiratory Sensitization: Based on available data, the classification criteria are not met.

Germ Cell Mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity

Component	IARC	NTP	ACGIH	OSHA	Mexico
Sodium carbonate	Not listed	Not listed	Not listed	Not listed	Not listed

Reproductive Toxicity: Based on available data, the classification criteria are not met.

STOT – Single/Repeated Exposure: Based on available data, the classification criteria are not met.

Aspiration Hazard: Not applicable (solid).

Chronic Effects: May be harmful if inhaled or swallowed; may cause respiratory tract irritation, and gastrointestinal irritation, nausea, vomiting or diarrhea if ingested. The toxicological properties have not been fully investigated.

Section 12: Ecological Information

Ecotoxicity: Freshwater fish: *Lepomis macrochirus* LC50 = 300 mg/L (96 h); *Gambusia affinis* LC50 = 740 mg/L (96 h). Water flea (*Daphnia magna*) EC50 = 265 mg/L (48 h). Do not empty into drains.

Persistence and Degradability: Soluble in water; persistence is unlikely based on information available.

Bioaccumulative Potential: No information available.

Mobility: Will likely be mobile in the environment due to its water solubility.

Section 13: Disposal Considerations

Waste Disposal Methods: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste, and must consult local, regional and national hazardous waste regulations to ensure complete and accurate classification.

Section 14: Transport Information

DOT / TDG / IATA / IMDG-IMO: Not regulated.

Section 15: Regulatory Information

United States Regulatory Information

TSCA Inventory: Listed / Active.

SARA 311/312 Hazards: Serious eye damage or eye irritation.

SARA 313: This product does not contain any chemicals subject to the reporting requirements of Section 313 of Title III (SARA).

CERCLA: This material, as supplied, does not contain any substances regulated as hazardous substances under CERCLA (40 CFR 302) or SARA (40 CFR 355).

California Proposition 65: This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know: No state-specific listing identified in supplier reference data.

Section 16: Other Information

Information on Revision

Creation Date: 2026/09/25

Revision Date: 2026/09/25

Reason for Revision: Initial issue. Hazard classification, exposure limits, toxicological and regulatory data prepared with reference to the supplier safety data sheet for CAS 497-19-8 (Thermo Fisher Scientific, Revision Date 18-Dec-2025), prepared under the US OSHA Hazard Communication Standard 2024 (29 CFR 1910.1200). Global Chemical Inventory Status table removed from Section 15.

Prepared By: Gongyi Filter Industry Co., Ltd — Health, Safety and Environmental Department

Disclaimer

This Safety Data Sheet (SDS) was prepared according to GB/T16483 and GB/T17519. The data included was derived from international authoritative databases, including supplier reference data for CAS 497-19-8, and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information; however, due to the diversity of information sources and the limitations of our knowledge, this document should be considered only one reference source. Users must make their own independent judgment of the suitability of this information for their intended purpose. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.