

# Safety Data Sheet

## Sodium Benzoate Powder NF/FCC

Product Code: SB1823

### Section 1: Identification

|                             |                                                                                                                                                                                                                                                                 |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product identifier          | Sodium Benzoate Powder NF/FCC                                                                                                                                                                                                                                   |
| Product code                | SB1823                                                                                                                                                                                                                                                          |
| Chemical name               | Sodium benzoate; Benzoic acid, sodium salt                                                                                                                                                                                                                      |
| CAS number                  | 532-32-1                                                                                                                                                                                                                                                        |
| EC number                   | 208-534-8                                                                                                                                                                                                                                                       |
| Chemical formula            | C7H5NaO2                                                                                                                                                                                                                                                        |
| Molecular weight            | 144.10 g/mol                                                                                                                                                                                                                                                    |
| Grade / purity              | NF/FCC; >99%. USP-NF defines Sodium Benzoate as 99.0-101.0% on the anhydrous basis.                                                                                                                                                                             |
| Appearance                  | White crystalline powder                                                                                                                                                                                                                                        |
| Recommended uses            | Preservative and formulation ingredient; cosmetics and personal-care formulations; laboratory and research use; chemical processing; corrosion-inhibitor and technical formulations; other applications appropriate to NF/FCC grade and applicable regulations. |
| Use note                    | NF/FCC designation indicates compendial quality; it does not by itself establish suitability, regulatory approval, or certification for every finished food, pharmaceutical, cosmetic, or other regulated application.                                          |
| Supplier / Distributor      | Chemical Store Inc.                                                                                                                                                                                                                                             |
| Address                     | 1059 Main Avenue, Clifton, NJ 07011, United States                                                                                                                                                                                                              |
| Telephone / Website / Email | +1 (973) 405-6248   ChemicalStore.com   info@ChemicalStore.com                                                                                                                                                                                                  |

### Section 2: Hazards Identification

|                         |                                                                                                                                               |                                                                                       |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| OSHA HCS classification | Serious Eye Damage / Eye Irritation - Category 2.                                                                                             |  |
| Signal word             | WARNING                                                                                                                                       |                                                                                       |
| Pictogram               | GHS07 - Exclamation mark                                                                                                                      |                                                                                       |
| Hazard statement        | H319 - Causes serious eye irritation.                                                                                                         |                                                                                       |
| Other hazards           | Fine powder can irritate the respiratory tract. Combustible dust concentrations may form an explosive mixture with air under some conditions. | WARNING                                                                               |

#### Precautionary statements

- P264 - Wash thoroughly after handling.
- P280 - Wear eye protection/face protection.
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313 - If eye irritation persists: Get medical advice/attention.

### Section 3: Composition / Information on Ingredients

|               |                         |
|---------------|-------------------------|
| Substance     | Sodium benzoate         |
| CAS / EC      | 532-32-1 / 208-534-8    |
| Concentration | >99%                    |
| Formula / MW  | C7H5NaO2 / 144.10 g/mol |

## Section 4: First Aid Measures

|                               |                                                                                                                                                                                   |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye contact</b>            | Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention. |
| <b>Skin contact</b>           | Wash with soap and water. Remove contaminated clothing. Obtain medical advice if irritation develops or persists.                                                                 |
| <b>Inhalation</b>             | Move to fresh air. Keep at rest. Obtain medical attention if coughing, irritation, or breathing difficulty persists.                                                              |
| <b>Ingestion</b>              | Rinse mouth. Do not induce vomiting unless directed by medical personnel. Obtain medical advice if a large amount is swallowed or symptoms occur.                                 |
| <b>Most important effects</b> | Serious eye irritation. Dust may cause mechanical irritation of the nose, throat, and respiratory tract.                                                                          |
| <b>Notes to physician</b>     | Treat symptomatically.                                                                                                                                                            |

## Section 5: Fire Fighting Measures

|                                     |                                                                                                                                                                             |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable extinguishing media</b> | Water spray, dry chemical, carbon dioxide, or foam appropriate to the surrounding fire.                                                                                     |
| <b>Specific hazards</b>             | Combustible solid. Fine dust dispersed in air may present a dust-explosion hazard. Heating/decomposition may produce irritating fumes and sodium oxide-containing residues. |
| <b>Protective equipment</b>         | Firefighters should wear appropriate protective equipment and self-contained breathing apparatus.                                                                           |

## Section 6: Accidental Release Measures

|                                  |                                                                                                                                                                          |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions</b>      | Avoid dust formation and breathing dust. Provide adequate ventilation. Keep unnecessary personnel away. Wear suitable eye protection and other PPE as required.          |
| <b>Environmental precautions</b> | Avoid unnecessary release to drains, surface water, groundwater, and soil.                                                                                               |
| <b>Cleanup methods</b>           | Sweep, scoop, or vacuum into suitable closed containers while minimizing dust. Use equipment appropriate for combustible dust where significant airborne dust may occur. |

## Section 7: Handling and Storage

|                               |                                                                                                                                                                                                                       |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Handling</b>               | Avoid eye contact and breathing dust. Minimize dust generation and accumulation. Use adequate ventilation. Keep away from ignition sources where combustible dust could be generated. Wash thoroughly after handling. |
| <b>Storage</b>                | Keep container tightly closed in a cool, dry, well-ventilated location. Protect from moisture. Sodium benzoate is hygroscopic.                                                                                        |
| <b>Incompatible materials</b> | Strong oxidizing agents; strong acids may liberate benzoic acid. Evaluate process-specific compatibility.                                                                                                             |

## Section 8: Exposure Controls / Personal Protection

|                                     |                                                                                                                                                                                                                                              |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Occupational exposure limits</b> | No OSHA substance-specific PEL or NIOSH substance-specific REL was identified for sodium benzoate in the sources reviewed. ACGIH information reported in secondary authoritative databases should not be represented as an OSHA federal PEL. |
| <b>Engineering controls</b>         | Provide adequate general ventilation and local exhaust where dust is generated. Control dust accumulation. Provide eyewash facilities.                                                                                                       |
| <b>Eye / face protection</b>        | Safety glasses with side shields; chemical goggles where significant dust exposure is possible.                                                                                                                                              |
| <b>Hand protection</b>              | Suitable protective gloves for bulk handling.                                                                                                                                                                                                |
| <b>Respiratory protection</b>       | Where dust cannot be adequately controlled, use appropriate NIOSH-approved particulate respiratory protection under a compliant respiratory-protection program.                                                                              |
| <b>Hygiene measures</b>             | Wash hands after handling. Do not eat, drink, or smoke in dusty handling areas.                                                                                                                                                              |

**Section 9: Physical and Chemical Properties**

|                                 |                                                                                                |
|---------------------------------|------------------------------------------------------------------------------------------------|
| <b>Physical state</b>           | Solid powder / crystalline powder                                                              |
| <b>Color</b>                    | White                                                                                          |
| <b>Odor</b>                     | Odorless or essentially odorless                                                               |
| <b>Molecular formula</b>        | C7H5NaO2                                                                                       |
| <b>Molecular weight</b>         | 144.10 g/mol                                                                                   |
| <b>Water solubility</b>         | Highly soluble; approximately 63 g/100 mL at 20 °C reported in authoritative chemical data.    |
| <b>Density</b>                  | Approximately 1.5 g/cm3                                                                        |
| <b>pH</b>                       | Aqueous solutions are mildly alkaline; value depends on concentration and test method.         |
| <b>Flash point</b>              | Not applicable to the solid in the conventional closed-cup sense.                              |
| <b>Autoignition temperature</b> | >500 °C reported in authoritative chemical data.                                               |
| <b>Flammability</b>             | Combustible solid under some conditions; dust explosion possible when finely dispersed in air. |
| <b>Vapor pressure</b>           | Negligible at ambient temperature.                                                             |

**Section 10: Stability and Reactivity**

|                                           |                                                                                                       |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | Stable under normal recommended handling and storage.                                                 |
| <b>Chemical stability</b>                 | Stable under recommended storage conditions.                                                          |
| <b>Possibility of hazardous reactions</b> | Fine dust may form explosive mixtures with air. No hazardous polymerization expected.                 |
| <b>Conditions to avoid</b>                | Excessive heat, ignition sources, uncontrolled dust generation, moisture, and incompatible materials. |
| <b>Incompatible materials</b>             | Strong oxidizing agents; strong acids.                                                                |
| <b>Hazardous decomposition products</b>   | Irritating fumes and sodium oxide-containing decomposition products may form on strong heating.       |

**Section 11: Toxicological Information**

|                                             |                                                                                                                      |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| <b>Likely routes of exposure</b>            | Eye contact, inhalation of dust, skin contact, and ingestion.                                                        |
| <b>Acute toxicity</b>                       | Available data do not support classification for acute toxicity. Reported rat oral LD50 is approximately 3450 mg/kg. |
| <b>Eye irritation</b>                       | Causes serious eye irritation; Eye Irritation Category 2.                                                            |
| <b>Skin irritation</b>                      | Not generally classified as a skin irritant; prolonged dusty contact may cause mechanical irritation.                |
| <b>Respiratory effects</b>                  | Airborne powder may irritate the nose, throat, and respiratory tract.                                                |
| <b>Sensitization</b>                        | Not classified as a respiratory or skin sensitizer based on the information reviewed.                                |
| <b>Carcinogenicity</b>                      | Not classified as carcinogenic based on the information reviewed.                                                    |
| <b>Mutagenicity / reproductive toxicity</b> | Available data reviewed do not support GHS classification for germ-cell mutagenicity or reproductive toxicity.       |

**Section 12: Ecological Information**

|                                    |                                                                                                                            |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>Ecotoxicity</b>                 | Not classified as hazardous to the aquatic environment based on the information reviewed. Avoid uncontrolled bulk release. |
| <b>Persistence / degradability</b> | Sodium benzoate is expected to be readily biodegradable in environmental screening data.                                   |
| <b>Bioaccumulative potential</b>   | Low bioaccumulation potential is expected.                                                                                 |
| <b>Mobility</b>                    | Highly water soluble and expected to be mobile in soil/water.                                                              |

**Section 13: Disposal Considerations**

|                      |                                                                                                                                                                                         |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product waste</b> | Dispose of unused material and contaminated residues in accordance with applicable federal, state, and local requirements. Waste generators must determine proper waste classification. |
| <b>Packaging</b>     | Empty containers may retain residue. Recycle or dispose of packaging in accordance with applicable requirements.                                                                        |

**Section 14: Transport Information**

|                                  |                                                                                                                      |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------|
| <b>U.S. DOT</b>                  | Not regulated as a hazardous material for transport based on current supplier SDS information reviewed.              |
| <b>IATA / ICAO</b>               | Not regulated as dangerous goods based on current supplier SDS information reviewed.                                 |
| <b>IMDG / IMO</b>                | Not regulated as dangerous goods based on current supplier SDS information reviewed.                                 |
| <b>UN number / Packing group</b> | Not assigned.                                                                                                        |
| <b>Shipper responsibility</b>    | Verify current requirements for the actual product, quantity, package, mode, route, and destination before shipment. |

**Section 15: Regulatory Information**

|                                      |                                                                                                                                                                                         |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chemical identity</b>             | Sodium benzoate, CAS 532-32-1, EC 208-534-8.                                                                                                                                            |
| <b>OSHA Hazard Communication</b>     | Hazardous under OSHA HCS 2024 because of Serious Eye Damage/Eye Irritation Category 2.                                                                                                  |
| <b>NF compendial status</b>          | USP-NF identifies Sodium Benzoate and defines an assay of 99.0-101.0% on the anhydrous basis.                                                                                           |
| <b>FCC compendial status</b>         | Sodium Benzoate is included in the Food Chemicals Codex; FCC information describes it as white granules, crystalline powder, or flakes.                                                 |
| <b>TSCA / other U.S. inventories</b> | Confirm current inventory and site-specific regulatory requirements before use or reporting.                                                                                            |
| <b>Grade note</b>                    | NF/FCC grade is a quality designation and does not substitute for application-specific regulatory review, certification, finished-product compliance, or lot-specific COA verification. |

**Section 16: Other Information**

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Revision date</b>            | 2026-10-07                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Initial preparation date</b> | 2026-10-07                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>SDS version</b>              | 1.0                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Product covered</b>          | Sodium Benzoate Powder NF/FCC, >99% - SB1823                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Preparation basis</b>        | Current Thermo Fisher/Acros U.S. OSHA HCS 2024 SDS (revision 20-Dec-2025); USP-NF Sodium Benzoate monograph preview; FCC Sodium Benzoate monograph preview; PubChem sodium benzoate record; current Sigma-Aldrich sodium benzoate hazard information.                                                                                                                                                             |
| <b>Classification note</b>      | Current reliable sources consistently support Eye Irritation Category 2 / H319. This SDS uses that classification and separately notes combustible-dust potential as a physical handling hazard.                                                                                                                                                                                                                  |
| <b>Disclaimer</b>               | The information is believed accurate based on reasonably available information and is intended for occupational safety and hazard communication. It is not a product specification, Certificate of Analysis, regulatory approval, or warranty of suitability. Users must confirm current lot documentation, intended use, workplace conditions, transportation requirements, and applicable laws and regulations. |