

TECHNICAL DATA SHEET

Product Name: Sodium Bicarbonate

INCI Name: Sodium Bicarbonate

CAS: 144-55-8

Synonyms: Sodium Hydrogen Carbonate, Baking Soda, Bicarbonate of Soda, Sodium Hydrogen Carbonate

Chemical Classification: Inorganic compound ~ Salt

Functional Category: Abrasive; pH Adjuster/Balancing Agent; Skin Protectant; Oral Care Agent

Description: Sodium Hydrogen Carbonate is a chemical compound with the formula NaHCO_3 . It is a salt composed of sodium cations (Na^+) and bicarbonate anions (HCO_3^-). It appears as a white solid substance in the form of crystals or a fine powder, with a mildly salty, alkaline taste. The natural mineral form is nahcolite, found dissolved in many mineral sources. The powder is soluble in water, and its solubility depends on temperature and concentration. Common solubility in water is approximately 96 grams per liter at 20°C

Benefits:

- Acts as an abrasive, making it suitable for mild exfoliation. Helps remove dead skin cells and cleanse pores. Can be used in facial or body scrubs and cleansing formulations.
- Sodium bicarbonate possesses alkaline properties that can assist in balancing the skin's pH levels. It may be beneficial for individuals with acidic skin, neutralizing excess acidity and promoting a balanced complexion
 - Due to its natural deodorizing properties, sodium bicarbonate is often used in deodorants, foot powders, and body powders to control odors and absorb moisture
 - Sodium bicarbonate has soothing properties that can help calm skin irritations, such as minor rashes or insect bites. It can be used in baths or as an ingredient in creams and lotions for a soothing effect on the skin
 - Sodium bicarbonate is known for its teeth-whitening properties. However, it's

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important to note that excessive or improper use for teeth whitening can damage tooth enamel, so caution is advised.

Usage: As an ingredient in facial, body, or scalp exfoliating products, it is commonly used at concentrations ranging from 1% to 10%, depending on the desired level of exfoliation. In deodorants, it is used at concentrations of 5% to 25% for its ability to neutralize unpleasant odors, often combined with other ingredients providing freshness and protection against unpleasant odors. In toothpaste formulations, due to its mild abrasive and whitening properties, it is used at concentrations of 1% to 5%. The powder is for external use only.

Animal Testing: The substance has not been tested on animals.

GMO: Not genetically modified.

Vegan: Does not contain components of animal origin.