

TECHNICAL DATA SHEET

Product Name: Sodium Hydroxide

INCI Name: Sodium Hydroxide

CAS Number: 1310-73-2

Synonyms: Caustic soda, alkali, sodium hydrate

Chemical Classification: Inorganic compound

Functional Category: Denaturant, pH adjuster/buffer

Description: Sodium hydroxide is a white, solid ionic compound composed of sodium cations (Na^+) and hydroxide anions (OH^-). It is a highly caustic base and alkali capable of causing severe burns. Sodium hydroxide is highly soluble in water and readily absorbs moisture and carbon dioxide (CO_2) from the air, forming sodium carbonate and sodium bicarbonate.

Use in Cosmetics: Sodium hydroxide is commonly used as a pH adjuster in cosmetic formulations. It helps balance the pH and enhance product stability in moisturizers and facial lotions. It can also be found in shampoos, conditioners, and hair-straightening products to regulate the pH of the final product and facilitate hair treatments.

Production Method: Sodium hydroxide is produced through various methods, including:
The reaction of sodium with water
Treating sodium carbonate solution with slaked lime
Electrolysis of sodium chloride solution

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

GMO Status: Non-GMO

Vegan Status: Does not contain animal-derived components

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