

Material Safety
 Data Sheet (**MSDS**)

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SODIUM BICARBONATE

FEED GRADE/FEED MATERIAL SODIUM BICARBONATE SPECIFICATIONS

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION

Chemical Name: Sodium Bicarbonate
Formula: NaHCO_3
Molecular Weight: 84.01 (g/mol)
CAS No.: 144-55-8
EINECS No.: 205-633-8
Origin: Natural Trona Ore
Synonyms: Sodium Hydrogen Carbonate,
 Sodium Acid Carbonate, Baking Soda,
 Bicarbonate of Soda

2. Chemical Specificatio

Parameter	Unit	Specifications
NaHCO_3	%	99.3 min
Na_2CO_3	%	0.5 max
Cl-	mg/kg	700 max
SO_4^{2-}	mg/kg	300 max
Water Insolubles	mg/kg	500 max
Pb / Lead	ppm	0.1 max
As / Arsenic	ppm	0.1 max
Hg / Mercury	ppm	0.1 max
Cd / Cadmium	ppm	0.1 max
Fe (total)	ppm	10.0 max
F / Fluorine	ppm	150 max
Solubility	g/100 ml water	15.6 (60°C) 9.55 (20 °C) 5.55 (0 °C)
pH (at 25 °C)	1% (m/V) solution	8,0-8.6
Loss on drying	%	Not more than 0.25 % (over silica gel, 4 hours)



3- Physical Properties

Parameter	Unit	Specifications
Bulk Density	g/cm ³	0.90-1.25
Whitness	%	L* = 95 min. (CIE Lab)
Appearance	visual	Free flowing white powder
Particle Size		
+75 micron (µm)	%	20-90
+45 micron (µm)	%	60-100

4- Dioxins / Sum of dioxins and dioxin-like PCBs

Parameter	Unit	Specifications
Dioxin	ng/kg	0.5 max
Sum of dioxins and dioxin-like PCBs	ng/kg	1.0 max
Dioxin-like PCBs	ng/kg	0.35 max
Non-dioxin-like PCBs	µg/kg (ppb)	10 max

Standard Packages

- 25 kg polyethylene (PE) FFS bags.
- 1 tones and 1.25 tones polypropilen (PP) bigbag with inner lining.
- 1.25 tones sling bag prepared from 25 kg polyethylene (PE) bags.

Storage Conditions

- Should be stored in a covered warehouse, preferably lower than 30°C and 50%

relative humidity and well-ventilated.

- Not recommended to store more than one pallet on other.
- The shelf life of the product is 2 years.

Human Health Effects

- Do not contain GMO.
- There is no feature of allergen.
- There is no consumer group designated.



Uses

- Dairy cattle
- Poultry
- Swine cattle

Transport

- Truck
- Ship

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Specifications defined above are valid for the products kept in suitable conditions and not further processed. Please check the Material Safety Data Sheet for detailed information, handling and safety details. TS and/or related ISO standards were applied for product analysis according to Eti Soda, Sodium Bicarbonate Analysis Instructions.

