

# VITUSA PRODUCTS

343 Snyder Avenue • Berkeley Heights, NJ 07922  
 Tel: 908-665-2900 Fax: 908-665-2662



The Quality System  
 of Vitusa Products, Inc.  
 has been registered to  
 ISO 9002 by SGS ICS, Inc.

## Sodium Bicarbonate USP Grade MATERIAL SAFETY DATA SHEET

ALK. Plus

BICARBONATE OF SODA

#2215

### PRODUCT IDENTIFICATION:

Chemical Name: Sodium Bicarbonate  
 Common Name: Sodium Bicarbonate  
 Formula: NaHCO<sub>3</sub>  
 Dot Proper  
 Shipping Name: Not Applicable  
 DOT Hazard Class: Not Applicable  
 Reportable Quantity: Not Applicable  
 DOT I D. Name: Not Applicable  
 CAS Number: 144-55-8 (of NaHCO<sub>3</sub>)

### PHYSICAL & CHEMICAL PROPERTIES:

State: Granular Solid  
 Melting Point °C: Loses CO<sub>2</sub> at 270  
 Boiling Point °C: Decomposes  
 Color: White  
 Odor: None  
 Bulk Density, lb./cu. ft.: 60  
 Weight Per Gallon: Not Applicable  
 Specific Gravity @ 20°C: 2.16  
 Water Solubility, % by Wt. @ 20°C: 8.8  
 Flash Point and Method: Not Applicable  
 pH: Not Applicable

### HAZARDOUS INGREDIENTS:

CHEMICAL NAME	COMMON NAME	ASSAY	CAS NUMBER	HAZARD
Sodium Bicarbonate	Sodium Bicarbonate	100%	144-55-8	Mild irritant to eyes and skin

### PHYSICAL HAZARD INFORMATION:

Explosive ..... No  
 Pyrophoric ..... No  
 Combustible ..... No  
 Compressed Gas ..... No  
 UEL ..... Not Applicable

Flammability Class ..... Not Applicable  
 Organic Peroxide ..... No  
 LEL ..... Not Applicable  
 Flammable ..... No  
 Oxidizer ..... No

Reactivity: ..... Normally stable in dry air; in moist air forms sodium carbonate, an irritant  
 Incompatibilities: ..... Acids, aluminum and phosphoric pentoxide  
 Hazardous Decomposition: ..... Decomposes when exposed to high heat, releasing carbon dioxide. Carbon dioxide gas is an asphyxiant and may affect respiration rate.  
 Condition to Avoid: ..... Exposure to incompatible materials and heat

### HEALTH INFORMATION:

Precautionary Information: ..... This product is a mild irritant to eyes and skin.  
 Symptoms of Exposure: ..... Irritation or redness of the eyes and skin.  
 Restrictive Medical Conditions: .... Eye or skin disease and breathing/respiratory disorders will be aggravated by exposure.

### PRIMARY ROUTES OF EXPOSURE:

Inhalation and Ingestion

**TOXICITY INFORMATION:**

Oral: Infant LD Lo 1260 mg/kg  
Oral: Rat LD<sub>50</sub> 4220 mg/kg  
Irritant Skin: Rabbit 30 mg/  
3 days - mild

**EXPOSURE LIMITS:**

OSHA: Not Established  
ACGIH: Not Established  
Other: ACGIH TLV TWA for a nuisance  
dust is 10 mg/m<sup>3</sup> total dust; 5 mg/m<sup>3</sup>  
respirable dust

**PRECAUTIONS FOR SAFE  
HANDLING AND USE:**

Avoid contact with eyes, skin and clothing  
Avoid breathing product dust  
Avoid contact with acids  
Wash thoroughly after handling

**ENGINEERING CONTROLS AND PERSONAL  
PROTECTIVE EQUIPMENT:**

Ventilation: Use general/local exhaust techniques  
to meet nuisance dust exposure limits  
Respirator: NIOSH/MSHA approved respirator  
if nuisance dust levels exceeded  
Eye Protection: No Special Requirements  
Gloves: No Special Requirements  
Clothing: Good hygiene practices

**REPORTED AS A POTENTIAL CARCINOGEN OR CARCINOGEN: NO**

**SPILL AND LEAK PROCEDURES:**

Soil Releases: Shovel or sweep up and place in container for disposal. Dispose in accordance with appropriate regulations.  
Water Spill: Disperse with water jets, propellers or similar devices.  
Air Spill: Keep up wind. Treat impact site as for Soil Release or Water Spill.  
Occupational Spill: Shovel or sweep up and place in container for disposal.  
RCRA Number: Not applicable

**FIRST AID PROCEDURES:**

Ingestion: Seek medical attention immediately  
Inhalation: Remove to fresh air  
Skin Contact: Flush skin with water and then wash thoroughly  
Eye Contact: Immediately flush eyes with copious amounts of water for at least 15 minutes. Call a physician.

**NOTE TO PHYSICIAN: Exposure is primarily sodium bicarbonate**

**EMERGENCY PROCEDURES:**

Fire: This product is not flammable and does not support combustion.  
Spill or Leak: Contain spill or leak. Shovel or sweep up and place in containers for proper disposal.

The information provided in this Material Safety Data Sheet has been compiled from our experience and data presented in various technical publications. Vitusa Products believes this information to be reliable and up to date as of the date of publication, but makes no warranty that it is. It is the users responsibility to determine the suitability of the information provided and to distribute it to those who will use, handle, store, transport, or may otherwise be exposed to this product.