

# MATERIAL SAFETY DATA SHEET



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## SECTION I IDENTIFICATION

**Chemical Name:** Sodium Bicarbonate **Formula:**  $\text{NaHCO}_3$   
**Trade Name:** Baking Soda w/ Patented anti-clog treatment process.

## SECTION II COMPOSITION

<u>Component</u>	<u>CAS #</u>	<u>OSHA Exp</u>	<u>TLV</u>	<u>Carcinogen</u>
Proprietary Sodium Bicarbonate Based Mixture w/flow additives.				
Sodium Bicarbonate (non-hazardous)	144-55-8	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	No
?? Contains no hazardous ingredients at 1% or more (0.1% for carcinogens) as listed or defined in 29 CFR 1910, subpart Z.				

## SECTION III HAZARDS IDENTIFICATION

**Eye:** Not an eye irritant **Skin Contact:** Not a skin irritant. **Inhalation:** None known.  
**Ingestion:** Material is non-toxic. Small amounts (1-2 tablespoons) swallowed during normal handling operations are not likely to cause injury as long as the stomach is not overly full; swallowing larger amounts may cause injury (see note in section IV).  
**Subchronic Effect / Carcinogenicity:** Based on published studies on its effects in animals and humans, sodium bicarbonate is NOT teratogenic or genotoxic. Only known subchronic effect is of a marked systemic alkalosis. Material not listed as a carcinogen or potential carcinogen.

## SECTION IV FIRST AID MEASURES

**EYES:** Check for and remove contacts. Flood eyes with clean flowing water, low pressure and luke warm (not hot) if possible, occasionally lifts eyelids.  
**INGESTION:** If large amounts of this material are swallowed, do not induce vomiting. Administer water if person is conscious. Never give anything by mouth to an unconscious person.  
**NOTE TO PHYSICIAN:** Large doses may produce systemic alkalosis and expansion in extracellular fluid with edema.

## SECTION V FIRE AND EXPLOSION HAZARD DATA

**Flash Point:** Not combustible. **Method Used:** N/A **Flammable Limits:** LFL: N/A UFL: N/A  
**Extinguishing Media:** Not combustible. Use extinguishing media appropriate for surrounding fire.  
**Fire Fighting Instructions:** Carbon Dioxide may be generated making necessary the use of a self-contained breathing apparatus (SCBA) and full protective equipment. Carbon Dioxide is an asphyxiant at levels of 5% w/w.

## SECTION VI ACCIDENTAL RELEASE MEASURES

Scoop up into dry clean containers. Wash away uncontaminated residue with water.

## SECTION VII HANDLING AND STORAGE

Store in cool, dry areas and away from incompatible substances (see section 10).

## SECTION VIII EXPOSURE CONTROLS / PERSONAL PROTECTION

**Respiratory Protection:** Dust mask required if total dust level exceeds 10 mg/m<sup>3</sup>  
**Protective Gloves:** General purpose for handling dry product. Impervious gloves are necessary when working with solutions.  
**Eye Protection:** Safety Glasses when handling bulk material or when dusts are generated.  
**Protective Clothing:** Full cover clothing. Apron where splashing may occur when working with solutions.

## SECTION IX PHYSICAL AND CHEMICAL DATA

<b>Appearance:</b> White crystalline powder.	<b>Physical State:</b> Solid	<b>Odor:</b> None
<b>Vapor Pressure:</b> N/A	<b>pH as is:</b> N/A	<b>pH (1% SOLN. w/v):</b> 8.2
<b>Vapor Density:</b> N/A	<b>Solubility in water:</b> 8.6 g / 100 ml @ 68°F	<b>Specific Gravity (Water=1):</b> 2.2
<b>Boiling Point:</b> N/A	<b>Apparent Density (g/cc):</b> Approximately 1	<b>Molecular Weight:</b> 84.02
<b>Freezing/Melting Point:</b> N/A	<b>% Volatile:</b> N/A	<b>Volatile Organic Compounds:</b> N/A

## SECTION X STABILITY AND REACTIVITY

**Chemical Stability:** Stable **Conditions to avoid:** Temperatures above 228°F **Hazardous Polymerization:** N/A  
**Incompatibility with other materials:** Reacts with acids to yield carbon dioxide. Also may yield free caustic in presence of lime dust (CaO) and moisture water, perspiration)  
**Hazardous Decomposition:** Heating above 228°F may cause dangerous levels of carbon dioxide gas to be present in confined areas. Yields sodium oxide if exposed to temperatures above 1564°F. Avoid inhalation, eye and skin contact with sodium oxide.

## SECTION XI ECOLOGICAL INFORMATION

**Eye Effects:** The material was minimally irritating to unwashed eyes and practically non-irritating to washed eyes.  
**Skin Effects:** Not a skin irritant or dermally toxic. Not a contact sensitizer.  
**Acute Oral Effects:** Acute Oral LD<sub>50</sub> 7.3 g/kg **Acute Inhalation:** LC<sub>50</sub> > 4.74 mg/l

## SECTION XII TOXICOLOGICAL INFORMATION

**Aquatic Toxicity:** Sodium Bicarbonate, the principal constituent in dermabrasion media, is classified as practically non-toxic to the following environmental organisms:

Daphnids:	48 hour EC <sub>50</sub> = 4100 mg/l;	NOEC = 3100mg/l
Bluegill:	96 hour LC <sub>50</sub> = 7100 mg/l;	NOEC = 3100mg/l
Rainbow Trout:	96 hour LC <sub>50</sub> = 7700 mg/l;	NOEC = 3100mg/l