Safety Data Sheet

Material Name: Sodium Bicarbonate

6/8/2018

Section 1: Product and Company Identification

Product identifier: Sodium Bicarbonate
Synonyms: Baking Soda
Recommended Use: Food Ingredient, Pharmaceutical, Household and Personal Care Product, Water Treatment, General Industrial Use.

Manufacturer Information:
Church & Dwight
500 Charles Ewing Blvd
Ewing Township, NJ 08628
Phone Number: 1-800-524-1328
Emergency Phone Number: 1-800-424-9300 (Chemtrec)

Section 2: Hazards Identification

The consumer variant of this product is labeled in accordance with regulations administered by the Consumer Product Safety Commission (CPSC) and the Food and Drug Administration (FDA). The use pattern and exposure in the workplace are generally not consistent with those experienced by consumers. The requirements of the Occupational Safety and Health Administration applicable to this SDS differ from the labeling requirements of the CPSC and FDA, and as a result, this SDS may contain additional health hazard information not pertinent to consumer use and not found on the product label.

Classification of the Substance or mixture

Classification (GHS-US) Not classified

Label Elements

GHS-US Labeling No labeling applicable

Hazards Not Otherwise Classified

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. Prolonged contact with dust can produce mechanical irritation.

Section 3: Composition / Information on Ingredients

Chemical Name	CAS-No	Weight %	Classification
Sodium Bicarbonate	144-55-8	100	Not Classified

Section 4: First Aid Measures

Description of Necessary First Aid Measures

General	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.
Inhalation	When symptoms occur: go into open air and ventilate suspected area.
Skin Contact	Brush off loose particles from skin. Rinse immediately with plenty of water. Obtain medical attention if irritation develops or persists.
Eye Contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Obtain medical attention if irritation persists.
Ingestion	Rinse mouth. Do NOT induce vomiting. Seek medical attention if a large amount is swallowed.

Most Important symptoms and effects, both acute and delayed

General	None expected under normal conditions of use.
Inhalation	Prolonged inhalation of dust may cause respiratory irritation.
Skin Contact	Skin contact with large amounts of dust may cause mechanical irritation.
Eye Contact	Contact may cause irritation due to mechanical abrasion.
Ingestion	Large doses may produce systemic alkalosis and expansion in extracellular fluid volume with edema.

Indication of Immediate Medical Attention and Special Treatment Needed. (If Necessary)

If exposed or concerned, get medical advice and attention.

Section 5: Fire Fighting Measures

Extinguishing Media

Suitable Extinguishing Media:	Use extinguishing media appropriate for surrounding fire.
Unsuitable Extinguishing Media:	For surrounding fire: Use of heavy stream of water may spread fire.

Specific hazards arising from the chemical

Fire Hazard:	NOT FLAMMABLE . Under fire conditions, hazardous fumes will be present.
Explosion Hazard:	Product is not explosive.
Reactivity:	Hazardous reactions will not occur under normal conditions.

Advice for Firefighters

Precautionary Measures Fire:	Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.
Firefighting Instructions:	Exercise caution when fighting any chemical fire.
Protection During Firefighting:	Do not enter fire area without proper protective equipment, including respiratory protection.
Hazardous Combustion Products:	Carbon oxides (CO, CO2). Sodium oxides.

Reference to Other Sections

Refer to section 9 for flammability properties.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

General Measures: Handle in accordance with good industrial hygiene and safety practice. Do not breathe dust or fumes. Avoid skin and eye contact.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area.

Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

Methods and material for containment and clean up

For Containment: Contain and collect as any solid.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Avoid generation of dust during clean-up of spills. Keep in suitable, closed containers for disposal. Contact competent authorities after a spill.

Section 7: Handling and Storage

Precautions for safe handling

Additional Hazards When Processed: When heated, material emits irritating fumes.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

Conditions for safe storage, including any incompatibilities

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use.

Incompatible Materials: Acids. Water. Lime.

Storage Temperature: < 65 °C (150 °F)

Section 8: Exposure / Personal Protection

Particulates not otherwise classified (PNOC)		
USA ACGIH	ACGIH TWA (mg/m³)	3 mg/m3 Respirable fraction 10 mg/m3 Total Dust
USA OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m3 Respirable fraction 15 mg/m3 Total Dust
Alberta	OEL TWA (mg/m³)	10 mg/m³ (total)
British Columbia	OEL TWA (mg/m³)	10 mg/m³ (total dust)
Manitoba	OEL TWA (mg/m³)	10 mg/m³ (inhalable particles, recommended)
New Brunswick	OEL TWA (mg/m³)	3 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica, respirable fraction)
Newfoundland & Labrador	OEL TWA (mg/m³)	10 mg/m³ (inhalable particles, recommended)
Nova Scotia	OEL TWA (mg/m³)	10 mg/m³ (inhalable particles, recommended)
Nunavut	OEL TWA (mg/m³)	5 mg/m³ (respirable mass)
Northwest Territories	OEL TWA (mg/m³)	5 mg/m³ (respirable mass)
Ontario	OEL TWA (mg/m³)	10 mg/m³ (inhalable)
Prince Edward Island	OEL TWA (mg/m³)	10 mg/m³ (inhalable particles, recommended)
Quebec	VEMP (mg/m³)	10 mg/m³ (including dust, inert or nuisance particulates; containing no Asbestos and <1% Crystalline silica-total dust)
Saskatchewan	OEL STEL (mg/m³)	20 mg/m³ (insoluble or poorly soluble-inhalable fraction) 6 mg/m³ (insoluble or poorly soluble-respirable fraction)
Saskatchewan	OEL TWA (mg/m³)	10 mg/m³ (insoluble or poorly soluble-inhalable fraction) 3 mg/m³ (insoluble or poorly soluble-respirable fraction)

Exposure Controls

Appropriate Engineering Controls

For occupational/workplace settings: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment

For occupational or bulk quantities: Gloves. Safety glasses. Dust formation: dust mask.

Materials for Protective Clothing

For occupational or bulk quantities: Chemically resistant materials and fabrics.

Hand Protection

For occupational or bulk quantities: Wear chemically resistant protective gloves.

Eye Protection

For occupational or bulk quantities: Chemical goggles or safety glasses.

Respiratory Protection

Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

Other Information

When using, do not eat, drink or smoke

Section 9: Physical & Chemical Properties

Appearance:	White, crystalline powder	Odor:	Odorless
Physical State:	Solid	pH:	8.2 (1% Solution)
Specific Gravity:	62 lb/ft3	Solubility:	Water: 8.6 g/100ml @ 20 °C (68 °F)

Section 10: Chemical Stability & Reactivity Information

Reactivity

Hazardous reactions will not occur under normal conditions.

Chemical Stability

Decomposes slowly on exposure to water (moisture).

Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

Conditions to Avoid

Exposure to moisture or moist air. Temperatures above 150°F (65 °C).

Incompatible Materials

Acids. Water. Lime.

Hazardous Decomposition Products

None known. At high temperature may liberate toxic gases.

Section 11: Toxicological Information

Information on Toxicological Effects – Product

Acute Toxicity:	Not classified
LD50 and LC50 Data:	
LD50 Oral Rat	7.3 g/kg
LC50 Inhalation Rat	>4.7 mg/l/4h
Skin Corrosion/Irritation:	Not classified [pH: 8.2 (1% Solution)]
Serious Eye Damage/Irritation:	Not classified [pH: 8.2 (1% Solution)]
Respiratory or Skin Sensitization:	Not classified
Germ Cell Mutagenicity:	Not classified
Teratogenicity:	Not classified

Carcinogenicity: Not classified
Specific Target Organ Toxicity (Repeated Exposure): Not classified
Reproductive Toxicity: Not classified
Specific Target Organ Toxicity (Single Exposure): Not classified
Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation
Prolonged inhalation of dust may cause respiratory irritation.
Symptoms/Injuries After Skin Contact
Skin contact with large amounts of dust may cause mechanical irritation.
Symptoms/Injuries After Eye Contact
Contact may cause irritation due to mechanical abrasion.
Symptoms/Injuries After Ingestion
Large doses may produce systemic alkalosis and expansion in extracellular fluid volume with edema.
Chronic Symptoms: None expected under normal conditions of use.

Section 12: Ecological Information

Ecotoxicity

Sodium Biocarbonate (144-55-8)	
LC 50 Fish 1	7100 mg/l Bluegill
EC 50 Daphnia 1	4100 mg/l
LC 50 Fish 2	7700 mg/l Rainbow Trout
LC 50 Fish 1	8250 - 9000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC 50 Daphnia 1	2350 mg/l (Exposure time: 48 h - Species: Daphnia magna)

Persistence and Degradability
Not established

Bioaccumulative Potential
Not established

Mobility in Soil
Not available

Other Adverse Effects
Other Information:
Avoid release to the environment.

Section 13: Disposal Considerations

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

Section 14: Transportation Information

In Accordance with DOT

Not regulated for transport

In Accordance with IMDG

Not regulated for transport

In Accordance with IATA

Not regulated for transport

In Accordance with TDG

Not regulated for transport

Section 15: Regulatory Information

US Federal & International Regulations

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the Canadian DSL (Domestic Substances List)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

US State Regulations

Neither this product nor its chemical components appear on any US state list.

Section 16: Other Information

None.