

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations
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Version: 1.0

# **SECTION 1: IDENTIFICATION**

Product Identifier

**Product Form:** Substance

Product Name: Sodium Bicarbonate

CAS No: 144-55-8 Formula: NaHCO<sub>3</sub> Synonyms: Baking Soda

**Intended Use of the Product** 

Food Ingredient, Pharmaceutical, Household and Personal Care Product, Water Treatment, General Industrial Use.

# Name, Address, and Telephone of the Responsible Party

Company

Church & Dwight 500 Charles Ewing Blvd Ewing Township, NJ 08628 T 1-800-524-1328

www.churchdwight.com

**Emergency Telephone Number** 

Emergency Number : For Medical Emergency: 1-888-234-1828, For Chemical Emergency: 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

<u>Other Hazards</u> Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. Prolonged contact with dust can produce mechanical irritation.

Unknown Acute Toxicity (GHS-US) Not available

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**Substances** 

Name : Sodium Bicarbonate

CAS No : 144-55-8

Name	Product Identifier	% (w/w)	Classification (GHS-US)
Sodium bicarbonate	(CAS No) 144-55-8	100	Not classified

# **SECTION 4: FIRST AID MEASURES**

## **Description of 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.

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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.

Chronic Symptoms: None expected under normal conditions of use.

## Indication of Any Immediate Medical Attention and Special Treatment Needed

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.

## **Special Hazards Arising From the Substance or Mixture**

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, CO<sub>2</sub>). 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 Cleaning 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.

## **Reference to Other Sections**

See heading 8, Exposure Controls and Personal Protection.

## 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)

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Specific End Use(s) Food Ingredient, Pharmaceutical, Water Treatment, General Industrial Use

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **Control Parameters**

Particulates not otherwise classified (PNOC)			
USA ACGIH	ACGIH TWA (mg/m³)	3 mg/m <sup>3</sup> Respirable fraction	
		10 mg/m <sup>3</sup> Total Dust	
USA OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m <sup>3</sup> Respirable fraction	
		15 mg/m <sup>3</sup> 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)	
Québec	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 AND CHEMICAL PROPERTIES**

# Information on Basic Physical and Chemical Properties

Physical State : Solid

**Appearance** : White, crystalline powder

Odor : None

Odor Threshold:Not availablepH:8.2 (1% Solution)Evaporation Rate:Not availableMelting Point:Not availableFreezing Point:Not availableBoiling Point:Not availableFlash Point:Not available

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**Auto-ignition Temperature** Not available **Decomposition Temperature** Not available Flammability (solid, gas) Not available **Upper/Lower Flammable Limit** Not available **Vapor Pressure** Not available Relative Vapor Density at 20 °C Not available Specific gravity / density 62 lb/ft<sup>3</sup> **Specific Gravity** Not available

**Solubility** : Water: 8.6 g/100ml @ 20 °C (68 °F)

Partition Coefficient: N-octanol/water : Not available Viscosity : Not available

Explosion Data – Sensitivity to Mechanical Impact : Not expected to present an explosion hazard due to mechanical impact. Explosion Data – Sensitivity to Static Discharge : Not expected to present an explosion hazard due to static discharge.

# **SECTION 10: STABILITY AND REACTIVITY**

<u>Reactivity</u>: Hazardous reactions will not occur under normal conditions.

<u>Chemical Stability</u>: Decomposes slowly on exposure to water (moisture).

<u>Possibility of Hazardous Reactions:</u> 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:

Sodium Bicarbonate	
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

### **Toxicity** No additional information available

Sodium Bicarbonate		
LC50 Fish 1	7100 mg/l Bluegill	
EC50 Daphnia 1	4100 mg/l	
LC 50 Fish 2	7700 mg/l Rainbow Trout	
Sodium bicarbonate (144-55-8	3)	
LC50 Fish 1	8250 - 9000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])	
EC50 Daphnia 1	2350 mg/l (Exposure time: 48 h - Species: Daphnia magna)	

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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: TRANSPORT INFORMATION**

In Accordance with DOTNot regulated for transportIn Accordance with IMDGNot regulated for transportIn Accordance with IATANot regulated for transportIn Accordance with TDGNot regulated for transport

# **SECTION 15: REGULATORY INFORMATION**

## **US Federal & International Regulations**

## Sodium Bicarbonate (144-55-8)

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 lists.

## **Canadian Regulations**

## Sodium bicarbonate (144-55-8)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification Uncontrolled product according to WHMIS classification criteria

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

# SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision Date** : 03/12/2015

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA

Hazard Communication Standard 29 CFR 1910.1200.

### Party Responsible for the Preparation of This Document

Church & Dwight 500 Charles Ewing Blvd Ewing Township, NJ 08628

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