



SAFETY DATA SHEET  
Buffer Plus - 0160

**Product Name:** Buffer Plus  
**Date:** 5/19/2015

SECTION 1 **IDENTIFICATION**

**Supplier:** Phoenix Products Company  
55 Container Drive  
Terryville, CT 06786  
(860) 589-7502

**Distributor:**

**U.S. PERS Emergency Telephone:** 1-800-633-8253

**Product Name:** **Buffer Plus**

**Synonyms:** Baking Soda, Sodium Acid Carbonate, Sodium Hydrogen Carbonate, Bicarbonate of Soda

**Chemical Name:** Sodium Bicarbonate

**Chemical Formula:** NaHCO<sub>3</sub>

**CAS Number:** 144-55-8

**Product Use:** Raises total alkalinity level safely in pool water.

SECTION 2 **HAZARDS IDENTIFICATION**

**Emergency Overview**

**OSHA Regulatory Status:** This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122). Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

**Potential Health Effects**

**Routes of Exposure:** Ingestion. Eye contact.

**Eyes:** Dust or powder may irritate eye tissue. If irritation should occur, it is expected to be transient.

**Skin:** Health injuries are not known or expected under normal use.

**Inhalation:** Health injuries are not known or expected under normal use.

**Ingestion:** Expected to be a low ingestion hazard. May cause temporary irritation of the throat, stomach, and gastrointestinal tract.

**Target Organs:** Eyes.

**Chronic Effects:** None known.

**Potential Environmental Effects:** The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

SECTION 3 **COMPOSITION, INFORMATION ON INGREDIENTS**

<b>Component</b>	<b>CAS Number</b>	<b>Percent</b>
Sodium Bicarbonate	144-55-8	100%



SECTION 4 **FIRST-AID MEASURES**

**Eye Contact:** Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. Get medical attention if irritation develops or persists.

**Skin Contact:** Wash off with soap and water. Get medical attention if irritation develops or persists.

**Inhalation:** Move to fresh air. Treat symptomatically. Get medical attention if symptoms persist.

**Ingestion:** Seek medical advice. If ingestion of a large amount does occur, call a poison control center immediately.

**Notes To Physician:** Treat symptomatically

SECTION 5 **FIRE FIGHTING MEASURES**

**Flammable Properties:** This product is not flammable.

**Extinguishing Media**

**Suitable Extinguishing Media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media:** None known.

**Protection of Firefighters**

**Protective Equipment and Precautions For Firefighters:** Firefighters should wear full protective gear. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

**Special Protective Equipment For Firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6 **ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Keep unnecessary personnel away. Ventilate the area. Wear appropriate protective equipment and clothing during clean-up.

**Environmental Precautions:** Prevent further leakage or spillage if safe to do so.

**Methods For Containment:** If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Prevent entry into waterways, sewer, basements or confined areas.

**Methods For Cleaning Up:** Avoid dust formation.

**Small Spills:** Sweep up or vacuum up spillage and collect in suitable container for disposal.

**Large Spills:** Collect dust or particulates using a vacuum cleaner with a HEPA filter. Reduce airborne dust and prevent scattering by moistening with water.



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Never return spills in original containers for re-use. Clean contaminated surface thoroughly. Clean up in accordance with all applicable regulations.

SECTION 7 **HANDLING AND STORAGE**

**Handling:** Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after handling. See Section 8 of the MSDS for Personal Protective Equipment.

**Storage:** Keep containers tightly closed.

SECTION 8 **EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Guidelines:** No exposure standards allocated.

**Engineering Controls:** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Personal Protective Equipment:**

**Eye/Face Protection:** Use tight fitting goggles if dust is generated.

**Skin Protection:** Wear appropriate clothing to prevent repeated or prolonged skin contact.

**Respiratory Protection:** Wear respirator if there is dust formation.

**General Hygiene Considerations:** Provide eyewash station and safety shower. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION 9 **PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Crystalline
<b>Form:</b>	Powder
<b>Color:</b>	White
<b>Odor:</b>	Odorless
<b>Odor Threshold:</b>	Not Available
<b>Solubility:</b>	7.8g/100g water @ 18°C (64°F)
<b>Density:</b>	2.2
<b>pH:</b>	8.3 (0.1 molar @ 25°C (77F))
<b>% Volatiles by volume @ 21°C (70°F):</b>	0
<b>Boiling Point:</b>	Not Applicable
<b>Melting Point:</b>	122°F (50°C)
<b>Flash Point:</b>	Not Available
<b>Flammability Limits in Air, Upper, % By Volume:</b>	Not Available
<b>Flammability Limits in Air, Lower, % By Volume:</b>	Not Available



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<b>Vapor Density (Air=1):</b>	Not Available
<b>Vapor Pressure (mm Hg):</b>	Not Available
<b>Evaporation Rate (BuAc=1):</b>	Not Available
<b>Specific Gravity:</b>	2.159
<b>Relative Density:</b>	Not Available
<b>Partition Coefficient (n-octanol/water):</b>	Not Available
<b>Auto-ignition Temperature:</b>	Not Available
<b>Molecular Weight:</b>	84.01 g/mol

SECTION 10 **STABILITY AND REACTIVITY**

**Stability:** Stable under ordinary conditions of use and storage.

**Hazardous Decomposition Products:** Gaseous carbon dioxide.

**Hazardous Polymerization:** Will not occur.

**Incompatibilities:** Reacts with acids to form carbon dioxide. Dangerous reaction with monoammonium phosphate or a sodium-potassium alloy.

**Conditions to Avoid:** Heat, moisture, incompatibles.

SECTION 11 **TOXICOLOGICAL INFORMATION**

**Sensitization:** Not a skin sensitizer.

**Acute Effects:** May be harmful if swallowed.

**Local Effects:** May cause eye irritation.

**Chronic Effects:** None known.

**Carcinogenicity:** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**Skin Corrosion/Irritation:** Not applicable.

**Epidemiology:** No epidemiological data is available for this product.

**Mutagenicity:** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Reproductive Effects:** Contains no ingredient listed as toxic to reproduction

SECTION 12 **ECOLOGICAL INFORMATION**

**Ecotoxicity:** The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Environmental Effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**Persistence and Degradability:** No data is available on the degradability of this product.



**Partition Coefficient (n-octanol/water):** Not available

SECTION 13 **DISPOSAL CONSIDERATIONS**

**Disposal Instructions:** Dispose of contents/container in accordance with local/regional/national/international regulations. Incinerate the material under controlled conditions in an approved incinerator.

**Contaminated Packaging:** Offer rinsed packaging material to local recycling facilities. Since emptied containers retain product residue, follow label warnings even after container is emptied.

SECTION 14 **TRANSPORTATION DATA**

**DOT:** Not Regulated  
**TDG:** Not Regulated  
**MEX:** Not Regulated  
**IMDG:** Not Regulated  
**IATA:** Not Regulated

SECTION 15 **REGULATORY INFORMATION**

**US Federal Regulations:** This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

**CERCLA/SARA Hazardous Substances:** Not applicable.

**CERCLA (Superfund) Reportable Quantity:** None

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

Hazard categories Immediate Hazard - No  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**Section 311 Hazardous Chemical:** No

**Food and Drug Administration (FDA):**

Total food additive  
Direct food additive  
GRAS food additive

**Inventory Status**

<b>Country(s) or Region</b>	<b>Inventory Name</b>	<b>On Inventory (yes/no)*</b>
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No



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Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**State Regulations:** This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

SECTION 15 **REGULATORY INFORMATION - Continued**

**Saf-T-Data:**

Health: 1 - Slight  
Flammability: 0 - None  
Reactivity: 1 - Slight  
Contact: 1 - Slight  
Lab Protective Equip: C - GOGGLES; LAB COAT; PROPER GLOVES  
Storage Color Code: G - Green (General Storage)

SECTION 16 **ADDITIONAL INFORMATION**

NFPA Ratings: Health: 1 Flammability: 0 Reactivity: 0

No representations or warranties, either expressed or implied, of merchant ability, fitness for a particular purpose or any other nature are made hereunder with respect to information or the product to which information refers.

Date: 5/19/2015  
Phoenix Products Company