1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name

Splash Alkalinity Plus

Other means of identification

Synonyms

Sodium Bicarbonate, Bicarbonate of Soda

Recommended use of the chemical and restrictions on use

Recommended Use:

Raising Total Alkalinity levels in water

Restrictions on Use:

No information available

Manufacturer Address

Buckman’s Inc
105 Airport Road
Pottstown PA 19464
Tel: +1-610-495-7495
www.buckmansinc.com

Emergency telephone number

For leak, fire, spill, or accident emergencies, call:
1 800 / 424-9300 (CHEMTREC - U.S.A. & Canada)

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

GHS Label elements, including precautionary statements

EMERGENCY OVERVIEW

The product contains no substances which at their given concentration, are considered to be hazardous to health

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Sodium Bicarbonate

Hazards not otherwise classified (HNOC)
No hazards not otherwise classified were identified.

Other Information
Product dust may cause mechanical eye irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Bicarbonate</td>
<td>144-55-8</td>
<td>100</td>
</tr>
</tbody>
</table>

Synonyms are provided in Section 1.

4. FIRST AID MEASURES

Eye Contact
Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.

Skin Contact
Wash skin with soap and water. Get medical attention if irritation develops and persists.

Inhalation
Remove person to fresh air. If signs/symptoms continue, get medical attention.

Ingestion
Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

Most important symptoms and effects, both acute and delayed
None known.

Indication of immediate medical attention and special treatment needed, if necessary
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

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

Specific Hazards Arising from the Chemical
None in particular. Not flammable.

Hazardous Combustion Products
None.

Explosion data
Sensitivity to Mechanical Impact
Not sensitive.

Sensitivity to Static Discharge
Not sensitive.

Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions
Avoid dust formation.

Other
For further clean-up instructions, call Emergency Hotline number listed in Section 1 "Product and Company Identification" above.
Environmental Precautions: Prevent material from entering into soil, ditches, sewers, waterways, and/or groundwater. See Section 12, Ecological Information for more detailed information.

Methods for Containment: Vacuum or shovel waste into a drum and label contents for disposal.

Methods for cleaning up: Pick up and transfer to properly labeled containers. Keep in suitable and closed containers for disposal. Dispose of waste as indicated in Section 13.

### 7. HANDLING AND STORAGE

**Handling**

Use air conveying/mechanical systems for bulk transfer to storage. Provide appropriate exhaust ventilation at places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment if release of airborne dust is expected.

**Storage**

Keep in a dry place. Keep away from incompatible products (acids). Do not store with strong smelling materials.

**Incompatible products**

Except under controlled conditions: Acids

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. Local nuisance dust standards apply.

**Appropriate engineering controls**

**Engineering measures**

Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection**

Safety glasses with side-shields.

**Skin and Body Protection**

Wear suitable protective clothing. Protective shoes or boots.

**Hand Protection**

Protective gloves

**Respiratory Protection**

In case of inadequate ventilation wear respiratory protection.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

**General information**

If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

**Appearance**

Crystalline, Powder

**Physical State**

Solid

**Color**

White

**Odor**

Odorless

**Odor threshold**

Not applicable

**pH**

8.3 (1% solution) @ 25 °C

**Melting point/freezing point**

Not applicable

**Boiling Point/Range**

No information available

**Flash point**

Not applicable

**Evaporation Rate**

No information available
Sodium Bicarbonate

Flammability (solid, gas) No information available
Flammability Limit in Air
  Upper flammability limit: No information available
  Lower flammability limit: No information available
Vapor pressure Negligible
Vapor density No information available
Density No information available
Specific gravity 2.22
Water solubility 96 g/L @ 20 °C
Solubility in other solvents No information available
Partition coefficient Not applicable
Autoignition temperature No information available
Decomposition temperature No information available
Viscosity, kinematic No information available
Viscosity, dynamic No information available
Explosive properties No information available
Oxidizing properties Non-oxidizing
Molecular weight 84.01
Bulk density 66 lb/cu ft

10. STABILITY AND REACTIVITY

Reactivity None under normal use conditions.
Chemical Stability Stable.
Possibility of Hazardous Reactions None under normal processing.
Hazardous polymerization Hazardous polymerization does not occur.
Conditions to avoid Heat. Humid air. Avoid contact with acids except under controlled conditions. Keep away from strong odor.
Incompatible materials Except under controlled conditions: Acids.
Hazardous Decomposition Products Reacts with acids to release carbon dioxide gas and heat.

11. TOXICOLOGICAL INFORMATION

Product Information

LD50 Oral > 5,000 mg/kg (rat)
LD50 Dermal No information available
LC50 Inhalation > 4.74 mg/L (rat) 4.5 hr
Eye Contact Non-irritating.
Skin Contact Non-irritating
Sensitization Non-sensitizing.

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic toxicity No known effect.
Mutagenicity Not mutagenic.
Carcinogenicity Not recognized as carcinogenic by Research Agencies (IARC, NTP, OSHA, ACGIH).
Reproductive toxicity No information available.
STOT - single exposure No information available.
12. ECOLOGICAL INFORMATION

Ecotoxicity

<table>
<thead>
<tr>
<th>Sodium Bicarbonate (144-55-8)</th>
<th>Active Ingredient(s)</th>
<th>Duration</th>
<th>Species</th>
<th>Value</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium bicarbonate</td>
<td>96 hr</td>
<td>Lepomis macrochirus (Bluefill sunfish)</td>
<td>NOEC: 5,200</td>
<td>mg/L</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LC50: 7,100</td>
<td></td>
</tr>
<tr>
<td>Sodium bicarbonate</td>
<td>48 hr immobilisation test</td>
<td>Daphnia magna</td>
<td>NOEC: 3,100</td>
<td>mg/L</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>EC50: 4,100</td>
<td></td>
</tr>
<tr>
<td>Sodium bicarbonate</td>
<td>96 hr</td>
<td>Oncorhynchus mykiss (rainbow trout)</td>
<td>NOEC: 2,300</td>
<td>mg/L</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LC50: 7,700</td>
<td></td>
</tr>
</tbody>
</table>

Persistence and degradability  Biodegradability does not pertain to inorganic substances.
Bioaccumulation                 Does not bioaccumulate.
Mobility                        Dissociates into ions.
Other Adverse Effects           None known.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods          This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). Dispose of in accordance with local regulations.
Contaminated Packaging          Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

DOT                             NOT REGULATED

15. REGULATORY INFORMATION

U.S. Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

<table>
<thead>
<tr>
<th>Acute health hazard</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chronic health hazard</td>
<td>No</td>
</tr>
<tr>
<td>Fire hazard</td>
<td>No</td>
</tr>
<tr>
<td>Sudden release of pressure hazard</td>
<td>No</td>
</tr>
<tr>
<td>Reactive Hazard</td>
<td>No</td>
</tr>
</tbody>
</table>

Clean Water Act
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)
Sodium Bicarbonate

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations
This product does not contain any substances regulated by state right-to-know regulations

International Inventories

<table>
<thead>
<tr>
<th>Component</th>
<th>TSCA (United States)</th>
<th>DSL (Canada)</th>
<th>EINECS/ELI NCS (Europe)</th>
<th>ENCS (Japan)</th>
<th>China (IECSC)</th>
<th>KECL (Korea)</th>
<th>PICCS (Philippines)</th>
<th>AICS (Australia)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Bicarbonate</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

WHMIS Hazard Class
Non-controlled

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA Health Hazards</th>
<th>HMIS Health Hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Special Hazards</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>-</td>
<td>X</td>
</tr>
</tbody>
</table>

NFPA/HMIS Ratings Legend
Severe = 4; Serious = 3; Moderate = 2; Slight = 1; Minimal = 0

Product Certifications
The MUL (maximum use level) for sodium bicarbonate is 100 mg/L under NSF/ANSI Standard 60.

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End of Safety Data Sheet