MATERIAL SAFETY DATA SHEET

Apache Alkali Booster

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Apache Alkali Booster
MSDS #: 231600380001
Product code: 3633480
Recommended use: Laundry care.

Manufacturer, importer, supplier:
US Headquarters
JohnsonDiversey, Inc.
8310 13th St.
Sturtevant, Wisconsin 53177-3602
Phone: 1-888-332-2249

Canadian Headquarters
JohnsonDiversey - Canada, Inc.
2401 Bristol Circle
Oakville, Ontario L6H 8P1
Phone: 1-604-699-3131

MSDS Internet Address: www.johnsondiversy.com

Emergency telephone number: 1-600-651-7145 (Froser); 1-651-917-6133 (Intl Froser); 91-360-710-3400 (Mexico)

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
DANGER. CORROSIVE. CAUSES SEVERE EYE, SKIN AND DIGESTIVE TRACT BURNS. HARMFUL OR FATAL IF SWALLOWED.

Principle routes of exposure: Eye, Skin, Inhalation, Ingestion.

Eye contact: Corrosive. Causes permanent eye damage, including blindness.

Skin contact: Corrosive. May cause permanent damage.

Inhalation: May cause irritation and corrosive effects to nose, throat and respiratory tract.

Ingestion: Causes burns to mouth, throat and stomach.

3. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS #</th>
<th>Weight %</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide</td>
<td>1310-73-2</td>
<td>20 - 30%</td>
<td>&gt;40 mg/kg (rat)</td>
<td>Not available</td>
<td>Not available</td>
</tr>
<tr>
<td>Sodium carbonate</td>
<td>497-10-6</td>
<td>50 - 60%</td>
<td>4300 mg/kg (rat)</td>
<td>Not available</td>
<td>Not available</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Eye contact: Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention immediately.

Skin contact: Flush immediately with plenty of water for at least 15 minutes. Get medical attention immediately.

Inhalation: If breathing is affected, remove to fresh air. Get medical attention immediately.

Ingestion: Do not induce vomiting, immediately drink one cupful of water or milk. Get medical attention immediately.

Aggravated Medical Conditions: None known.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: The product is not flammable. Dry chemical, water spray, foam, carbon dioxide.

Unusual hazards: None known.

Specific methods: Corrosive material (See sections 8 and 10).

Autoignition temperature: No information available.

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.

Extinguishing media which must not be used for safety reasons: None.
6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Put on appropriate personal protective equipment (see Section 8.).
Environmental precautions: Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Use a water rinse for final clean-up.

7. HANDLING AND STORAGE

Handling:
Avoid contact with skin, eyes and clothing. Do not taste or swallow. Do not breathe dust. Wash thoroughly after handling. Remove and wash contaminated clothing and footwear before re-use. Product residues may remain in empty containers. All precautions for handling the product must be used in handling the empty container and residue. FOR COMMERCIAL AND INDUSTRIAL USE ONLY. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.
Storage:
Keep tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure: General room ventilation is adequate.

Personal Protective Equipment
Eye protection: Chemical splash goggles.
Hand protection: Chemical resistant gloves includes rubber gloves
Skin and body protection: Protective footwear.
Respiratory protection: No special requirements under normal use conditions. In case of insufficient ventilation wear suitable respirator equipment.
Hygiene measures: Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS #</th>
<th>ACGIH</th>
<th>OSHA</th>
<th>Mexico</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide</td>
<td>1310-73-2</td>
<td>2 mg/m³ (Ceiling)</td>
<td>2 mg/m³</td>
<td>2 mg/m³ (Ceiling)</td>
</tr>
</tbody>
</table>

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
pH: No information available
Appearance: Powder
Color: White
Odor: No information available
Specific gravity: No information available
Density: 0.889
VOC: 2%
Flash point: >200 °F >93.3 °C
Solubility: Soluble

Bulk density: 0.889
Dilution pH: 12.6 @ 0.5% solution
Vapor density: No information available
Evaporation rate: No information available
Boiling point/range: Not determined
Melting point/range: Not determined
Decomposition temperature: Not determined
Autoignition temperature: No information available
Viscosity: No information available
Partition coefficient (n-octanol/water): No information available
Solubility in other solvents: No information available

10. STABILITY AND REACTIVITY

Stability: The product is stable.
Polymerization: Hazardous polymerisation does not occur.
Hazardous decomposition products: None reasonably foreseeable.
Materials to avoid: ADBS.
Conditions to avoid: Stable at normal conditions. No special storage conditions required.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: Oral LD₅₀ estimated to be between 400 - 2000 mg/kg Dermal LD₅₀ estimated to be > 2000 mg/kg
Component information: See Section 5.
Chronic toxicity: None known.
Specific effects
Carcinogenic effects: None known
Mutagenic effects: None known
Reproductive toxicity: None known
Target organ effects: None known

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12. ECOLOGICAL INFORMATION

Environmental Information:  
no data available.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:  
Undiluted product is regulated under environmental and transportation laws as a corrosive waste. Dispose of according to all federal, state and local applicable regulations.

14. TRANSPORT INFORMATION

DOT/IDG: Please refer to the Bill of Lading/receiving documents for up to date shipping information

15. REGULATORY INFORMATION

International Inventories  
All components of this product are listed on the following inventories: U.S.A. (TSCA), Canada (DSL/NDSL), Australia (AICS), Korea (ECL), Philippines (PICCS), China (IECSC).

U.S. Regulations  
California Proposition 65: This product is not subject to the reporting requirements under California's Proposition 65

STATE RIGHT TO KNOW

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS #</th>
<th>MARTK:</th>
<th>NJRTK:</th>
<th>PARTK:</th>
<th>RIRTK:</th>
<th>ILRTK:</th>
<th>CTRTK:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium carboxymethyl cellulose</td>
<td>9604-32-4</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Sodium carbonate</td>
<td>497-19-3</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>Sodium hydroxide</td>
<td>1310-73-2</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
</tr>
<tr>
<td>Sodium tripolyphosphate</td>
<td>7758-29-4</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
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<tr>
<td>Aliphatic hydrocarbons</td>
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<td>-</td>
<td>-</td>
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<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

CERCLA / SARA

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS #</th>
<th>Weight %</th>
<th>CERCLA/SARA RQ (lbs)</th>
<th>Section 302 TPQ (lbs)</th>
<th>Section 313</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide</td>
<td>1310-73-2</td>
<td>20 - 30%</td>
<td>1000</td>
<td>3000</td>
<td></td>
</tr>
<tr>
<td>Sodium tripolyphosphate</td>
<td>7758-29-4</td>
<td>5 - 10%</td>
<td>3000</td>
<td>3000</td>
<td></td>
</tr>
</tbody>
</table>

CAA HAP/CERD CWA Priority Pollutants: None

Canada

WHMIS hazard class: E  Corrosive material.

16. OTHER INFORMATION

Reason for revision: Not applicable

Prepared by: NAPRAC

Additional advice: None

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