SECTION 1: IDENTIFICATION

Product Identifier: Sodium Bicarbonate

Product Form: Substance

Product Name: Sodium Bicarbonate

CAS No: 144-55-8

Formula: NaHCO3

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:

Church & Dwight
500 Charles Ewing Blvd, Ewing Township, NJ 08628
1-800-524-1328 www.churchdwight.com

Mizkan Americas, Inc.
David Bierdeman, Director of Quality Assurance
1661 Feehanville Dr., Suite 300 Mount Prospect, IL 60056
(847) 590-0059 ext. 1306 www.mizkan.com

Emergency Telephone Number:

For Medical Emergency: 1-888-234-1828,
For Chemical Emergency: 1-800-424-9300 (CHEMTREC)

CHEMTREC 1-800-424-9300 For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, call CHEMTREC - Day or Night.

SECTION 2: HAZARDS IDENTIFICATION

Sodium Bicarbonate

Classification of the substance or mixture: Classification (GHS-US) Not classified

Label Elements:
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.

GHS-US Labeling No labeling applicable

Vinegar (>100 - 300 grain)

Classification (GHS-US):
Skin Corr. 1A H314.
Serious Eye Damage 1 H318.
Full text of H-phrases: see section 16.

Hazard pictograms (GHS-US):
GHS05

GHS05 Signal word (GHS-US): Danger.

Hazard statements (GHS-US): H314 - Causes severe skin burns and eye damage.

Precautionary statements (GHS-US):
P260 - Do not breathe mist, spray, or vapors.
P264 - Wash exposed skin thoroughly after handling.
P280 - Wear chemical goggles and face shield. Wear protective clothing and gloves made of Butyl rubber or equivalent material.
P301 + P330 + P331 - If swallowed: rinse mouth. Do NOT induce vomiting. Drink plenty of water.
P303 + P361 + P353 - If on skin (or hair): Take off immediately all contaminated clothing. Gently wash skin/hair with plenty of mild soap and water.
P304 + P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for 20 minutes. If eye irritation persists: Get medical advice/attention.
P310 - Immediately call a POISON CENTER.
P321 - Specific treatment (see Section 4 and the label).
P363 - Wash contaminated clothing before reuse.
P501 - Dispose of contents/container to comply with local/regional/national/international regulations.

Other Hazards: 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

No additional information available.
SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Substances</th>
<th>Sodium Bicarbonate</th>
<th>Vinegar (≥100 - 300 grain)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Sodium Bicarbonate</td>
<td>Vinegar (≥100 - 300 grain)</td>
</tr>
<tr>
<td>CAS No.</td>
<td>144-55-8</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS No.</th>
<th>%</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium bicarbonate (CAS No) 144-55-8</td>
<td>100</td>
<td>Not classified</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>Product Identifier</th>
<th>%</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
</table>

SECTION 4: FIRST AID MEASURES

Sodium Bicarbonate

**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.

**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.

No additional information available.

SECTION 5: FIRE-FIGHTING MEASURES

**Sodium Bicarbonate**

**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.

**Vinegar (≥100 - 300 grain)**

Any. Use media appropriate for surrounding fire.

Material is not combustible.
SECTION 5: FIRE-FIGHTING MEASURES

Reactivity: Hazardous reactions will not occur under normal conditions.

**Sodium Bicarbonate**

Stable under normal conditions of use.

**Vinegar (>100 - 300 grain)**

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

**Sodium Bicarbonate**

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. Avoid contact with skin and eyes. Evacuate area.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection. Use personal protective equipment as required. Wear personal protective equipment to prevent skin contact that is made of Butyl rubber or equivalent material. Wear chemical goggles and face shield to protect the eyes and face.


Environmental Precautions

Avoid release to the environment: Prevent entry to sewers and public waters. Dike for treatment or disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.

Methods and Material for Containment and Cleaning Up

For Containment: Contain and collect as any solid. Contain spilled material. Water may be used to dilute.

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.

LARGE SPILLS PROCEDURE: Contain spilled material. Large spills may be neutralized with dilute alkaline solutions of soda ash, or lime. Avoid runoff into storm sewers and ditches that lead to waterways. Treat or dispose of waste material as a weak acid in accordance with all local, state/provincial, and national requirements.

SMALL SPILLS PROCEDURE: Treat or dispose of waste material as a weak acid in accordance with all local, state/provincial, and national requirements. Water may be used to dilute.

For Non-Emergency Personnel

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

Emergency Procedures: Evacuate unnecessary personnel. Avoid contact with skin and eyes. Evacuate area.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection. Use personal protective equipment as required. Wear personal protective equipment to prevent skin contact that is made of Butyl rubber or equivalent material. Wear chemical goggles and face shield to protect the eyes and face.


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SMALL SPILLS PROCEDURE: Treat or dispose of waste material as a weak acid in accordance with all local, state/provincial, and national requirements. Water may be used to dilute.

Reference to Other Sections: See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

**Sodium Bicarbonate**

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.

**Vinegar (>100 - 300 grain)**

Avoid contact with skin and eyes.

Always wash with plenty of mild soap and water after handling the product. Wash contaminated clothing before reuse.
SECTION 7: HANDLING AND STORAGE

Sodium Bicarbonate

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.


Storage Temperature: < 65 °C (150 °F)

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

Vinegar (>100 - 300 grain)

Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions: Keep container tightly closed in a dry and well-ventilated place.

Incompatible Materials: Store away from strong oxidizing materials. Strong bases.

Storage Temperature: Use of the substance/mixture: Product/Food Ingredient.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Sodium Bicarbonate

Control Parameters

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

Vinegar

Control Parameters

<table>
<thead>
<tr>
<th>ACGIH (TWA) (mg/m³)</th>
<th>ACGIH (TWA) (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>Not Established.</td>
</tr>
<tr>
<td>OSHA</td>
<td>Not Established.</td>
</tr>
</tbody>
</table>

Acetic Acid (64-19-7)

<table>
<thead>
<tr>
<th>ACGIH (TWA) (mg/m³)</th>
<th>ACGIH (TWA) (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>25 mg/m³</td>
</tr>
<tr>
<td>ACGIH</td>
<td>10 ppm</td>
</tr>
</tbody>
</table>

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.

Vinegar (>100 - 300 grain)

Exposure Controls

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Adequate controls should be utilized to control airborne levels to meet current regulations and guidelines.

Avoid all unnecessary exposure.
### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Sodium Bicarbonate</th>
<th>Vinegar (&gt;100 - 300 grain)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Exposure Controls</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Materials for Protective Clothing:</strong></td>
<td>For occupational or bulk quantities: Chemically resistant materials and fabrics.</td>
</tr>
<tr>
<td><strong>Hand Protection:</strong></td>
<td>For occupational or bulk quantities: Wear chemically resistant protective gloves.</td>
</tr>
<tr>
<td><strong>Eye Protection:</strong></td>
<td>For occupational or bulk quantities: Chemical goggles or safety glasses.</td>
</tr>
<tr>
<td><strong>Respiratory Protection:</strong></td>
<td>Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.</td>
</tr>
<tr>
<td><strong>Other Information:</strong></td>
<td>When using, do not eat, drink or smoke.</td>
</tr>
</tbody>
</table>

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Sodium Bicarbonate</th>
<th>Vinegar (&gt;100 - 300 grain)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Information on Basic Physical and Chemical Properties</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Physical State:</strong></td>
<td>Solid</td>
</tr>
<tr>
<td><strong>Appearance:</strong></td>
<td>White, crystalline powder</td>
</tr>
<tr>
<td><strong>Odor:</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>Odor Threshold:</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>pH:</strong></td>
<td>8.2 (1% Solution)</td>
</tr>
<tr>
<td><strong>Evaporation Rate:</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Melting Point:</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Freezing Point:</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Boiling Point:</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Flash Point:</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Auto-ignition Temperature:</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Decomposition Temperature:</strong></td>
<td>Not available</td>
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<tr>
<td><strong>Flammability (solid, gas):</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Upper/Lower Flammable Limit:</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Vapor Pressure:</strong></td>
<td>Not available</td>
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<td><strong>Relative Vapor Density at 20 °C:</strong></td>
<td>Not available</td>
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<tr>
<td><strong>Specific gravity / density:</strong></td>
<td>62 lb/ft³</td>
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<tr>
<td><strong>Specific Gravity:</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Solubility:</strong></td>
<td>Water: 8.6 g/100ml @ 20 °C (68 °F)</td>
</tr>
<tr>
<td><strong>Partition Coefficient: N-octanol/water:</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Viscosity:</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Explosion Data – Sensitivity to Mechanical Impact:</strong></td>
<td>Not expected to present an explosion hazard due to mechanical impact.</td>
</tr>
<tr>
<td><strong>Explosion Data – Sensitivity to Static Discharge:</strong></td>
<td>Not expected to present an explosion hazard due to static discharge.</td>
</tr>
<tr>
<td><strong>Oxidizing properties:</strong></td>
<td>Incompatible with strong oxidizers</td>
</tr>
<tr>
<td><strong>Other information</strong></td>
<td></td>
</tr>
</tbody>
</table>
**SECTION 10: STABILITY AND REACTIVITY**

**SODIUM BICARBONATE**

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).


Hazardous Decomposition Products: None known. At high temperature may liberate toxic gases.

---

**VINEGAR (>100 - 300 grain)**

Stable under normal conditions of use.

Stable.

Hazardous polymerization will not occur.

Refer to Section 10 on Incompatible Materials.

Strong oxidizing agents. Strong bases.

Combustion may produce carbon monoxide and other harmful substances.

---

**SECTION 11: TOXICOLOGICAL INFORMATION**

**SODIUM BICARBONATE**

Information on Toxicological Effects - Product

Acute Toxicity: Not classified

LD50 and LC50 Data:

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 Oral Rat</td>
<td>Sodium</td>
<td>7.3 g/kg</td>
</tr>
<tr>
<td>LC50 Inhalation Rat</td>
<td>Sodium</td>
<td>&gt; 4.7 mg/l/4h</td>
</tr>
</tbody>
</table>

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.

---

**VINEGAR (>100 - 300 grain)**

Acetic Acid (64-19-7)

LD50 oral rat 3310 mg/kg

LD50 dermal rabbit 1130 mg/kg

ATE US (oral) 3310.000 mg/kg body weight.

ATE US (dermal) 1130.000 mg/kg body weight.

Causes severe skin burns and eye damage. pH: 2 at 30% acetic acid (calculated).

Causes serious eye damage. pH: 2 at 30% acetic acid (calculated).

Not classified

Not classified

Not classified

Not classified

Not classified

Not classified

Not classified

Irritating to the nose, throat, and respiratory tract.

Contact with material may irritate or burn skin.

Extremely irritating to the eyes - If not removed promptly, will injure eye tissue, which may result in permanent damage, including blindness.

Can irritate or burn mouth, throat, and stomach if swallowed.
SECTION 12: ECOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Sodium Bicarbonate</th>
<th>Sodium bicarbonate (144-55-8)</th>
<th>Vinegar (&gt;100 - 300 grain)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 Fish 1</td>
<td>7100 mg/l Bluegill</td>
<td>LC50 Fish 1</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>4100 mg/l</td>
<td>EC50 Daphnia 1</td>
</tr>
<tr>
<td>LC 50 Fish 2</td>
<td>7700 mg/l Rainbow Trout</td>
<td>EC50 Daphnia 2</td>
</tr>
<tr>
<td>Acetic Acid (64-19-7)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50 fish</td>
<td>88 mg/l</td>
<td></td>
</tr>
<tr>
<td>EC50 Daphnia</td>
<td>90.1 mg/l</td>
<td></td>
</tr>
</tbody>
</table>

Persistence and Degradability
- Sodium Bicarbonate: Not established
- Vinegar (>100 - 300 grain): Biodegrades readily under aerobic and anaerobic conditions.

Bioaccumulative Potential
- Sodium Bicarbonate: Not established
- Vinegar (>100 - 300 grain): This product is not expected to bioaccumulate.

Mobility in Soil
- Sodium Bicarbonate: Not available
- Vinegar (>100 - 300 grain): No additional information available.

Other Adverse Effects
- Sodium Bicarbonate: Avoid release to the environment.
- Vinegar (>100 - 300 grain): Effect on the global warming: No known ecological damage caused by this product.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations:
- Sodium Bicarbonate: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.
- Vinegar (>100 - 300 grain): Treat or dispose of waste material as a weak acid in accordance with all local, state/provincial, and national requirements.

SECTION 14: TRANSPORT INFORMATION

In Accordance with DOT
- Sodium Bicarbonate: Not regulated for transport
- Vinegar (>100 - 300 grain): No additional information available.

In Accordance with IMDG
- Sodium Bicarbonate: Not regulated for transport
- Vinegar (>100 - 300 grain): No additional information available.

In Accordance with IATA
- Sodium Bicarbonate: Not regulated for transport
- Vinegar (>100 - 300 grain): No additional information available.

In Accordance with TDG
- Sodium Bicarbonate: Not regulated for transport
- Vinegar (>100 - 300 grain): No additional information available.

SECTION 15: REGULATORY INFORMATION

Sodium Bicarbonate

US Federal & International Regulations
- Listed on the AICS (Australian Inventory of Chemical Substances)
- Listed on the Canadian DSL (Domestic Substances List)
- Listed on IECS (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)
  - 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 15: REGULATORY INFORMATION

Vinegar (>100 - 300 grain)

US Federal regulations

<table>
<thead>
<tr>
<th>Acetic Acid (64-19-7)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory. Not listed on the United States SARA Section 313.</td>
</tr>
<tr>
<td>RQ (Reportable quantity, section 304 of EPA's List of Lists) :</td>
</tr>
<tr>
<td>5000 lb.</td>
</tr>
</tbody>
</table>

International regulations

<table>
<thead>
<tr>
<th>Vinegar (&gt;100 - 300 grain), concentrated (8028-52-2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WHMIS Classification</td>
</tr>
<tr>
<td>Class E - Corrosive Material.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Acetic Acid (64-19-7)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WHMIS Classification</td>
</tr>
<tr>
<td>Class B Division 2 - Flammable Liquid.</td>
</tr>
<tr>
<td>Class E - Corrosive Material.</td>
</tr>
</tbody>
</table>

EU-Regulations

Classification according to Regulation (EC) No. 1272/2008 (CLP)
Classification according to Directive 67/548/EEC (DSD) or 1999/45/EC (DPD) Not classified.

National regulations

US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm.

| U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities. |
| U.S. - Massachusetts - Right To Know List. |
| U.S. - New Jersey - Right to Know Hazardous Substance List. |
| U.S. - Pennsylvania - RTK (Right to Know) List. |
| U.S. - Washington - Permissible Exposure Limits — TWAs. |

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

Sodium Bicarbonate

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

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

Vinegar (>100 - 300 grain)

Revision Date: 06/01/2015

Full text of H-phrases:

<table>
<thead>
<tr>
<th>Acute Tox. 4 (Dermal)</th>
<th>Acute toxicity (dermal) Category 4.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aquatic Acute 3</td>
<td>Hazardous to the aquatic environment - Acute Hazard Category 3.</td>
</tr>
<tr>
<td>Flam. Liq. 3</td>
<td>Flammable liquids Category 3.</td>
</tr>
<tr>
<td>Skin Corr. 1A</td>
<td>Skin corrosion/irritation Category 1A.</td>
</tr>
<tr>
<td>H226</td>
<td>Flammable liquid and vapor.</td>
</tr>
<tr>
<td>H312</td>
<td>Harmful in contact with skin.</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage.</td>
</tr>
<tr>
<td>H402</td>
<td>Harmful to aquatic life.</td>
</tr>
</tbody>
</table>

NFPA health hazard: 3 — Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

NFPA fire hazard: 0 - Materials that will not burn.

NFPA reactivity: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

HMIS III Rating
Health: 3 Major injury likely unless prompt action is taken and medical treatment is given.

Flammability: 0 Minimal Hazard.

Physical: 0 Minimal Hazard.

SDS US (GHS HazCom 2012)

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