SECTION 1: Identification of the substance/mixture and of the supplier

Product name: Sodium Bicarbonate, Reagent

Manufacturer/Supplier Trade name: 

Manufacturer/Supplier Article number: S25533B

Recommended uses of the product and restrictions on use:

Manufacturer Details:
  AquaPhoenix Scientific, Inc
  9 Barnhart Drive, Hanover, PA 17331
  (717) 632-1291

Supplier Details:
  Fisher Science Education
  6771 Silver Crest Road, Nazareth, PA 18064
  (724)517-1954

Emergency telephone number:
  Fisher Science Education
  Emergency Telephone No.: 800-535-5053

SECTION 2: Hazards identification

Classification of the substance or mixture: Not classified for physical or health hazards under GHS.

Signal word: None

Hazard statements: None

Precautionary statements:
  If medical advice is needed, have product container or label at hand.
  Keep out of reach of children.
  Read label before use.

Other Non-GHS Classification:

WHMIS
  None

NFPA/HMIS

NFPA SCALE (0-4)

0

1

2

0

HMIS RATINGS (0-4)

Health

Flammability

Physical Hazard

Personal Protection

SECTION 3: Composition/information on ingredients

Ingredients:
**SECTION 4: First aid measures**

**Description of first aid measures**

**After inhalation:**
Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position. Seek medical advice if discomfort or irritation persists. If breathing is difficult give oxygen. Get medical assistance if cough or other symptoms appear.

**After skin contact:**
Wash affected area with soap and water. Seek medical advice if discomfort or irritation persists.

**After eye contact:**
Protect unexposed eye. Rinse or flush exposed eye gently using water for 15-20 minutes. Remove contact lenses while rinsing. Immediately get medical assistance.

**After swallowing:**
Do not induce vomiting. Dilute mouth with water or milk after rinsing. Get medical assistance.

**Most important symptoms and effects, both acute and delayed:**

**Indication of any immediate medical attention and special treatment needed:**
If seeking medical attention provide SDS document to physician. Physician should treat symptomatically.

**SECTION 5: Firefighting measures**

**Extinguishing media**

**Suitable extinguishing agents:**
Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

**Unsuitable extinguishing agents:** None

**Special hazards arising from the substance or mixture:**
Thermal decomposition can lead to release of irritating gases and vapors.

**Advice for firefighters:**

**Protective equipment:**
Wear protective eyeware, gloves, and clothing. Refer to Section 8.

**Additional information (precautions):**
Avoid contact with skin, eyes, and clothing. Avoid generating dust.

**SECTION 6: Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:**
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Environmental precautions:**
Should not be released into environment.
Methods and material for containment and cleaning up:
Absorb and containerize for disposal. Avoid generating dust. Follow proper disposal methods. Refer to Section 13.

Reference to other sections: None

SECTION 7: Handling and storage

Precautions for safe handling:
Wash hands after handling. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Do not inhale gases, fumes, dust, mist, vapor, and aerosols. Do not eat, drink, smoke, or use personal products when handling chemical substances. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Do not eat, drink, smoke, or use personal products when handling chemical substances.

Conditions for safe storage, including any incompatibilities:
Store in a cool location. Provide ventilation for containers. Keep container tightly sealed. Store away from incompatible materials. Refer to Section 5 and 10. Protect from freezing and physical damage.

SECTION 8: Exposure controls/personal protection

Control Parameters:

Appropriate Engineering controls:
It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above. Normal ventilation is adequate.

Respiratory protection:
Not required under normal conditions of use.

Protection of skin:
Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation. Wear protective clothing.

Eye protection:
Safety glasses with side shields or goggles.

General hygienic measures:
Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Wash hands and exposed skin with soap and plenty of water. Perform routine housekeeping to prevent dust generation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

SECTION 9: Physical and chemical properties

| Appearance (physical state, color): | White powder | Explosion limit lower: | Non Explosive |
| Explosion limit upper: | Non Explosive |
| Odor: | Odorless | Vapor pressure at 20°C: | Not Applicable |
| Odor threshold: | Not Applicable | Vapor density: | Not Applicable |
Sodium Bicarbonate, Reagent

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tr>
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<tr>
<td>Flash point (closed cup)</td>
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<tr>
<td>Evaporation rate</td>
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<tr>
<td>Flammability (solid, gaseous)</td>
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<tr>
<td>Density at 20°C</td>
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<tr>
<td>Relative density</td>
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<tr>
<td>Solubilities</td>
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<tr>
<td>Partition coefficient (n-octanol/water)</td>
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<tr>
<td>Auto/Self-ignition temperature</td>
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</tr>
<tr>
<td>Decomposition temperature</td>
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</tr>
</tbody>
</table>
| Viscosity                         | a. Kinematic: Not Applicable  
                                  | b. Dynamic: Not Applicable |
| Density at 20°C                   | Not Available          |

**SECTION 10: Stability and reactivity**

Reactivity:
None under normal processing.

Chemical stability:
moisture sensitive. Heat sensitive.

Possible hazardous reactions:
Thermal decomposition can lead to release of irritating gases and vapors.

Conditions to avoid:
Exposure to moisture or water. temperatures above 50C. Dust generation. Incompatible Materials.

Incompatible materials:
Strong oxidizers. Strong acids.

Hazardous decomposition products:
Carbon oxides. Sodium oxides.

**SECTION 11: Toxicological information**

Acute Toxicity:

Oral:
4220 mg/kg LD50 Oral - rat

Inhalation:
4.74 mg/l LC Inhalation - rat

Chronic Toxicity: No additional information.

Corrosion Irritation: No additional information.

Sensitization: No additional information.

Numerical Measures: No additional information.

Carcinogenicity: No additional information.

Mutagenicity: No additional information.

Reproductive Toxicity: No additional information.

**SECTION 12: Ecological information**

Ecotoxicity:

Fish: LC50 (96h) L. macrochius: 8250-9000 mg/L

Crustacea: EC50 (48h) D. magna: 2350 mg/L
Persistence and degradability: No additional information.
Bioaccumulative potential: No additional information.
Mobility in soil: No additional information.
Other adverse effects: No additional information.

SECTION 13: Disposal considerations

Waste disposal recommendations:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification.

SECTION 14: Transport information

US DOT

UN Number:
ADR, ADN, DOT, IMDG, IATA

Not Dangerous Goods

Limited Quantity Exception:
None

Bulk: RQ (if applicable): None
Proper shipping Name: Not Dangerous Goods.
Hazard Class: None
Marine Pollutant (if applicable): No additional information.
Comments: None

Non Bulk: RQ (if applicable): None
Proper shipping Name: Not Dangerous Goods.
Hazard Class: None
Marine Pollutant (if applicable): No additional information.
Comments: None

SECTION 15: Regulatory information

United States (USA)

SARA Section 311/312 (Specific toxic chemical listings):
None of the ingredients are listed.

SARA Section 313 (Specific toxic chemical listings):
None of the ingredients are listed.

RCRA (hazardous waste code):
None of the ingredients are listed.

TSCA (Toxic Substances Control Act):
144-55-8 Not Regulated.

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):
None of the ingredients are listed.
Proposition 65 (California):

Chemicals known to cause cancer:
None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:
None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:
None of the ingredients are listed.

Chemicals known to cause developmental toxicity:
None of the ingredients are listed.

Canada

Canadian Domestic Substances List (DSL):
144-55-8 Not Regulated.

Canadian NPRI Ingredient Disclosure list (limit 0.1%):
None of the ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 1%):
None of the ingredients are listed.

SECTION 16: Other information

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

GHS Full Text Phrases: None

Abbreviations and Acronyms:

PNEC Predicted No-Effect Concentration (REACH).
SARA Superfund Amendments and Reauthorization Act (USA).
RCRA Resource Conservation and Recovery Act (USA).
TSCA Toxic Substances Control Act (USA).
NPRI National Pollutant Release Inventory (Canada).
DOT US Department of Transportation.
IATA International Air Transport Association.
GHS Globally Harmonized System of Classification and Labelling of Chemicals.
ACGIH American Conference of Governmental Industrial Hygienists.
CAS Chemical Abstracts Service (division of the American Chemical Society).
NFPA National Fire Protection Association (USA).
HMIS Hazardous Materials Identification System (USA).
WHMIS Workplace Hazardous Materials Information System (Canada).
DNEL Derived No-Effect Level (REACH).

Effective date: 01.06.2015
Last updated: 06.26.2015