1. Product and Company Identification

**Product Name**: BURN BARRIER™ W

**CAS#**: Mixture

**Product Use**: Liquid Water Based Fire Retardant

**Manufacturer**: National Purity, LLC.
6840 Shingle Creek Parkway, Suite #23
Brooklyn Center, MN 55430

**Emergency Telephone Number**: 1-800-255-3924

**HMIS LEGEND**

<table>
<thead>
<tr>
<th>Severe</th>
<th>Serious</th>
<th>Moderate</th>
<th>Slight</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>3</td>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
</tr>
</tbody>
</table>

2. Hazards Identification

**Emergency Overview**: Caution. May cause eye and skin irritation

**Potential short term effects**

- **Routes of exposure**
  - **Eyes**: Solutions of product may cause irritation, tearing, and redness.
  - **Skin**: Contact with skin may cause irritation.
  - **Ingestion**: May cause mouth and throat irritation, stomach distress, nausea or vomiting.

**Target organs**: Eyes, Skin.

**Chronic effects**: Prolonged exposure can cause drying, defatting, or dermatitis.

**Signs and symptoms**: Symptoms may include redness, edema, drying, defatting and cracking of skin.

3. Hazardous Ingredients and Exposure Control

The criteria for listing components in this section are: Carcinogens are listed when present at 0.1% or greater; components which are otherwise hazardous according to OSHA are listed when present at 1.0% or greater. Non hazardous components are not listed. This is not a composition disclosure.

<table>
<thead>
<tr>
<th>Hazardous Components</th>
<th>CAS#</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>% (optional)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diammonium phosphate</td>
<td>7783-28-0</td>
<td>Not Avail.</td>
<td>Not Avail.</td>
<td>&lt; 15%</td>
</tr>
<tr>
<td>Ammonium sulfamate</td>
<td>7773-06-0</td>
<td>Not Avail.</td>
<td>Not Avail.</td>
<td>&lt; 15%</td>
</tr>
</tbody>
</table>

4. First Aid Measures

**First Aid Procedures**

- **Eye Contact**: Flush with cool running water for 15 minutes. If irritation persists, get medical attention.
- **Skin Contact**: Flush with cool water. Remove contaminated clothing and shoes. Wash before reuse. If irritation occurs, get medical attention.
- **Ingestion**: Drink one or two glasses of water. Do not induce vomiting. Obtain medical attention. Never give anything by mouth to an unconscious person.

**Notes to Physician**: Symptoms may be delayed.

**General advice**: Seek medical attention if feeling unwell. Show the MSDS to the physician in attendance.

5. Fire-fighting Measures

- **Flammable properties**: Not flammable
- **Extinguishing media**: Use procedures appropriate to main source of fire.
- **Protection of firefighters**: Firefighters should wear protective clothing including self contained breathing apparatus
Hazardous combustion products
May include and not limited to ammonia, oxides of carbon, sulfur, and nitrogen.

Unusual Fire, Explosion hazards
None known.

6. Accidental Release Measures

Personal precautions
Keep unnecessary personal away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled containers unless wearing protective clothing.

Methods for containment
Stop leak if you can do so without risk. Prevent entry into waterways, sewers. Before attempting clean up, refer to hazard data given above. Small spills may be mopped up and rinsed. Large spills may be absorbed with non reactive absorbent and placed in suitable, covered, labeled containers. Rinse area with water. Never return spill to original container for reuse.

Methods for cleaning up

7. Handling and Storage

Handling
Use good industrial hygiene practices when handling this material

Storage
Keep from freezing, store in a cool dry place away from incompatible materials.

8. Exposure Controls and Personal Protection

Engineering controls
General ventilation normally adequate

Personal protective equipment

Eye/Face protection
Wear safety glasses with side shields if splash conditions exist.

Hand protection
Generally not required

Skin and body
As required by employer code.

Respiratory protection
Use a NIOSH approved respirator when exposure guidelines are exceeded.

General hygiene considerations
Handle in accordance with good industrial hygiene practices. Do not eat or drink when using product. Wash hands well before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Appearance/form
Clear liquid

Color
Colorless

Odor
Slight ammonia

pH
7.5-8.1 (concentrate)

Boiling point
> 212° F. (100° C.)

Flash point
Not flammable

Specific gravity
1.135-1.555

Evaporation rate
Not established

Vapor pressure
Not established

Vapor density
Not established

Solubility in water
Complete

VOC
< 1%

% Volatile
Approx 70%

10. Stability and Reactivity

Chemical Stability
Stable under normal storage conditions.

Conditions to avoid
Do not mix with other chemicals.

Incompatible materials
Acids, strong oxidizing agents.

Hazardous decomposition products
May include but not limited to ammonia, oxides of carbon, sulfur and nitrogen.

Hazardous polymerization
Will not occur
11. Toxicological Information

Effects of acute exposure
- **Eye**: May cause irritation
- **Skin**: May cause irritation
- **Ingestion**: May cause mouth and throat irritation, stomach distress, nausea, or vomiting.

Sensitization: Non hazardous.
Chronic effects: Prolonged exposure to skin may cause drying, defatting and irritation.
Carcinogenicity: Does not contain ingredients considered carcinogenic by NTP, IARC, or OSHA.
Mutagenicity: Non hazardous.
Reproductive effects: Non hazardous.
Teratogenicity: Non hazardous.

12. Ecological Information

Eco-toxicity: Components of this product have not been identified as having potential environmental concerns.

Environmental effects: Not Available
Aquatic toxicity: Not Available
Persistence and Degradability: Not Available
Bioaccumulation/accumulation: Not Available
Partition coefficient: Not Available
Mobility in environmental media: Not Available
Chemical fate information: Not Available
Other adverse effects: Not Available

13. Disposal Considerations

- **Waste codes**: Not Available
- **Disposal instructions**: Dispose in accordance with local, state, and federal regulations. Containize. Rinse area with water. Keep out of storm sewer/waterways.
- **Contaminated packaging**: Dispose in accordance with all applicable regulations.

14. Transport Information

- **Basic shipping requirements**: Not DOT regulated
- **Proper shipping name**: Not Available
- **Hazard class**: Not Available
- **UN number**: Not Available
- **Packing group**: Not Available
- **Special provisions**: Not Available
- **Packaging exceptions**: Not Available

15. Regulatory Information

- **U.S federal regulations**: This product has been classified in accordance with the Occupational Safety and Health Administration hazard criteria and the MSDS contains all of the information required by OSHA.
- **HMIS classification**: Irritant
- **Inventory Status**: Inventory Name | On Inventory (Yes/No)*
  | U.S. | Chemical Inventory List | Yes
  | Canada | Domestic substances list | Yes

* A “Yes” indicates that all of the components of this product comply with the inventory requirements administered by the governing country(s) listed.
16. Other Information

| **Disclaimer** | To the best of our knowledge, the information included herein is accurate. However, neither the above named supplier nor any of its subsidiaries assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any material is the responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. |
| **Issue date** | November 9, 2012 |
| **Supersedes date** | All previous issues |
| **Reason for update** | Conform to sixteen section OSHA format. |
| **Expiration date** | November 9, 2015 |