### Material-Safety-Data-Sheet

May be used to comply with OSHA's Hazard Communication Standard 29 CFR 1910.1200. Standard must be consulted for specific requirements.

### U.S. Department of Labor

Occupational Safety and Health Administration
Non-Mandatory Form
Form Approved
OMB No. 1218-0072

### Identity

(As Used on Label and List)

<table>
<thead>
<tr>
<th>Matches, Safety, Book</th>
</tr>
</thead>
<tbody>
<tr>
<td>Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.</td>
</tr>
</tbody>
</table>

### Section I

**Manufacturer's Name**

D. D. BEAN & SONS Co.

**Emergency Telephone Number**

800-535-5053

**Address (Number, Street, City, State, and ZIP Code)**

P. O. BOX 348

**Telephone Number for Information**

603-532-8311

**Date Prepared**

January 1, 2010

**Signature of Preparer (Optional)**

JULIA BARTLETT

### Section II - Hazardous Ingredients/Identity Information

<table>
<thead>
<tr>
<th>Hazardous components (Specific Chemical Identity: Common Names(s))</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Recommend</th>
<th>% (optional)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Chlorate</td>
<td>3811-04-9</td>
<td>NE</td>
<td>NA</td>
<td>&lt;.01%</td>
</tr>
<tr>
<td>Sulfur</td>
<td>7704-34-9</td>
<td>NE</td>
<td>NA</td>
<td>&lt;.01%</td>
</tr>
<tr>
<td>Amorphous Red Phosphorus</td>
<td>7723-14-0</td>
<td>NE</td>
<td>NA</td>
<td>&lt;.01%</td>
</tr>
</tbody>
</table>

NE = None Established

### Section III - Physical/Chemical Characteristics

<table>
<thead>
<tr>
<th>Boiling Point</th>
<th>NA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific Gravity (H 0 -1) 1.3</td>
<td>NA</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg.)</td>
<td>NA</td>
</tr>
<tr>
<td>Melting Point</td>
<td>NA</td>
</tr>
<tr>
<td>Vapor Density (AR - 1)</td>
<td>NA</td>
</tr>
<tr>
<td>Evaporation Rate (Butyl Acetate - 1)</td>
<td>NA</td>
</tr>
</tbody>
</table>

Solubility in Water

MATCH HEADS ARE SOLUBLE IN WATER

Appearance and Odor

NA

### Section IV - Fire and Explosion Hazard Data

<table>
<thead>
<tr>
<th>Flash Point(Method Used)</th>
<th>IN EXCESS OF 375 °F</th>
</tr>
</thead>
<tbody>
<tr>
<td>NA</td>
<td>LEL</td>
</tr>
<tr>
<td></td>
<td>UEL</td>
</tr>
</tbody>
</table>

*Extinguishing Media*  
WATER

*Special Fire Fighting Procedures*  
NA

*Unusual Fire and Explosion Hazards*

AUTO IGNITION AT TEMP IN EXCESS OF 375 °F OR IF EXPOSED TO FLAME

(Reproduce locally.)  
OSHA 174, Sept. 1985
Section V - Reactivity Data

<table>
<thead>
<tr>
<th>Stability</th>
<th>Conditions to Avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stable</td>
<td>X</td>
</tr>
</tbody>
</table>

Incompatibility (Materials to Avoid) None

Hazardous Decomposition or Byproducts

<table>
<thead>
<tr>
<th>Conditions to Avoid</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MATCHES - OXYGEN, OXIDES OF SULFUR</td>
<td></td>
</tr>
<tr>
<td>STRIKER - OXIDES OF PHOSPHORUS</td>
<td></td>
</tr>
</tbody>
</table>

Hazardous Polymerization

<table>
<thead>
<tr>
<th>May Occur</th>
<th>Will Not Occur</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

Section VI - Health Hazard Data

Route(s) of Entry:

- Inhalation? YES
- Skin? NO
- Ingestion? NO

Health Hazards (Acute and Chronic) NONE

Carcinogenicity:

- NTP? NONE
- IARC Monographs? NA
- OSHA Regulated? NO

Signs and Symptoms of Exposure COUGHING FROM SMOKE

Medical Conditions

Generally Aggravated by Exposure RESPIRATORY AILMENTS MAY BE AGGRAVATED BY IGNITION FUMES

Emergency and First Aid Procedures TREAT BURNS ACCORDINGLY

MOVE TO FRESH AIR

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled WET WITH WATER

Waste Disposal Method SATURATE WITH WATER AND DISPOSE AT LANDFILL OR INCINERATE

ACCORDING TO APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS

Precautions to Be Taken in Handling & Storing AVOID TEMPERATURES IN EXCESS OF 375 F/STORE IN COOL, DRY PLACE

MATCHES, SAFETY, BOOK UN1944, DOT 49 SUBPARTS 173.186 (C)

Other Precautions KEEP MATCHES AWAY FROM CHILDREN, DISCARD IF WET

Section VIII - Control Measures

Respiratory Protection (Specify Type) NONE REQUIRED

Ventilation Local Exhaust Mechanical (General) NONE Store in Cool Dry Place

Special NA Other NA

Protective Gloves NA Eye Protection NA

Other Protective Clothing or Equipment NA Work/Hygienic Practices NA

Section IX - Transportation Measures

UN 1944, 4.1, III

Matches, Safety, Book

DOT 49 CFR 173.186(C) NO PLACARDS REQUIRED

According to 49 CFR 173.186(C) Safety matches and wax "Vesta" matches must be tightly packed in securely closed inner packagings to prevent accidental ignition under conditions normally incident to transportation, and further packed in outer fiberboard, wooden, or other equivalent outer packagings. These matches in outer packages not exceeding 23 Kg (50 pounds) gross weight are not subject to any other requirement (except marking) of this subchapter. These matches may be packed in the same outer packaging with materials not subject to this subchapter.

While the information and recommendations contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. It is the responsibility of the user to comply with all Federal, State and Local regulations.