## Material Safety Data Sheet

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

N/A = Not applicable. N/D = No data

---

**Identity:**
BPI Crystal Clear™, BPI UV Diamond Dye™ 400nm, BPI UV Diamond Dye™ 400 XL, BPI UV Diamond Dye™ 400 Ultra-Hard, BPI UV-Only™, BPI UV-Only™ XL, BPI UV 400+ Plus™

<table>
<thead>
<tr>
<th>Manufacturer’s Name</th>
<th>Emergency Telephone Number:</th>
<th>305-264-4465</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Telephone Number for Information:</td>
<td>305-264-4465</td>
</tr>
<tr>
<td>Address:</td>
<td>Date Prepared:</td>
<td>1 May 2012</td>
</tr>
<tr>
<td></td>
<td>4470 SW 74th Avenue</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Miami, Florida 33155, USA.</td>
<td></td>
</tr>
</tbody>
</table>

**Section I**

### Hazardous Components

<table>
<thead>
<tr>
<th>Specific Chemical Identity; Common Name (s)</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other Limits</th>
<th>% Optional</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ultraviolet Dyes: Trade secret</td>
<td>5 mg/cu m. (if dry)</td>
<td>5 mg/cu m. (if dry)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proprietary SD Alcohol</td>
<td>1000 ppm</td>
<td>1000 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trade secret surfactants</td>
<td>Not established</td>
<td>Not established</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**All other ingredients not listed are proprietary and are not known to be hazardous. Not all components are in all UV dyes.**

---

**Section II**

**Characteristics**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point (mm Hg.)</td>
<td>N/D</td>
</tr>
<tr>
<td>Specific Gravity (H₂O=1)</td>
<td>N/D</td>
</tr>
<tr>
<td>pH</td>
<td>5-7</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg.)</td>
<td>100nm @ 29C For SD Alcohol</td>
</tr>
<tr>
<td>Melting Point</td>
<td>N/D</td>
</tr>
<tr>
<td>Vapor Density (A) (L/R=1)</td>
<td>1.6 For SD Alcohol</td>
</tr>
<tr>
<td>Evaporation Rate (Butyl Acetate = 1)</td>
<td>1.9 For SD Alcohol</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Miscible</td>
</tr>
<tr>
<td>Appearance &amp; Odor</td>
<td>Clear supernatant liquid. Slight odor.</td>
</tr>
</tbody>
</table>

---

**Section III**

**Fire and Explosion Hazard Data**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point (Method Used)</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flammable Limits</td>
<td>For SD Alcohol: LEL: 3.2% at 38° C UEL: 25.7% at 66° C</td>
</tr>
<tr>
<td>Special Fire Fighting Procedures</td>
<td>Wear self-contained breathing apparatus with face-shield and protective clothing to avoid personal contact. Disconnect all ignitions sources.</td>
</tr>
<tr>
<td>Unusual Fire and Explosion Hazards</td>
<td>*This mixture contains &lt; 12% flammable solvents. Avoid ignition sources, open flame, or hot plate as a precaution.</td>
</tr>
</tbody>
</table>

**NFPA CODES**

<table>
<thead>
<tr>
<th>F</th>
<th>H</th>
<th>R</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>1*</td>
<td>2</td>
<td>1</td>
<td>N/D</td>
</tr>
</tbody>
</table>

---

The information contained herein is based on data believed by Brain Power Inc. to be accurate, but we do not assume any liability for the accuracy of this information. We neither suggest nor guarantee that any hazards mentioned are the only ones which exist. Anyone intending to rely on any recommendation or to use any equipment, technique or material mentioned should also satisfy himself that he can meet all applicable safety and health standards. Determination of the suitability of any information or product for the use contemplated by any user, the manner of that use and whether there is any infringement of patents is the sole responsibility of the user. No significant environmental effects are known as formulated. As chemical-use restrictions become more severe and product hazards are more thoroughly investigated, BPI will continue the effort to replace and/or avoid the use of hazardous materials. Where they are known and as more materials are added to the hazardous lists we will continue to work diligently to replace them. All data and information provided as of this date of preparation as per form OSHA “Right to Know” Regulation 29 CFR 1910.1200 is done in good faith without warranty of accuracy or completeness. Conditions of use are often beyond our control and BPI disclaims liability for hazards connected with the use, mishandling or abuse of this material. BPI further offers no warranty of the results obtained through the use of this product. This information is provided solely for your consideration and evaluation. © 1994-2001. Brain Power Inc. BPI and all specific product names mentioned herein are trademarks of Brain Power Incorporated. Miami, Florida. BPI is a registered trademark with the US Patent Office and with similar offices in other countries.
### Section V: Reactivity Data

#### Stability:
- **Stable:** X
- **Unstable:**
- **Conditions to avoid:** Stable on storage under normal conditions. Avoid ignition sources.

#### Incompatibility:
- (Materials to avoid) Avoid oxidizing and reducing agents, strong acids and strong bases.

#### Hazardous Decomposition or Byproducts:
- Decomposing may produce oxides of carbon, nitrogen, and/or sulfur.
- **Hazardous Polymerization:**
  - **May occur:**
  - **Will not occur:** X
  - **Conditions to avoid:** None known

#### Route(s) Of Entry:
- **Inhalation:** Yes
- **Skin:** Yes
- **Ingestion:** Yes

#### Health Hazards:
- **Health Hazards:** (Acute & Chronic)
- **Route(s) Of Exposure:**
  - Inhalation: Inhalation may lead to dizziness. Extreme overexposure by inhalation or ingestion may lead to liver damage, optic nerve damage or fatality. May cause eye or skin irritation. Dyes are sensitizers may cause allergic reaction.
  - Oral LD50 1.2g/kg for UV dyes. Oral LD50 6.2 g/kg (rat) for SD Alcohol.

#### Carcinogenicity:
- **Carcinogenicity:**
  - NTP?: Not listed
  - IARC Monographs?: Not listed
  - OSHA Regulated?: Not listed
- The components of this product are listed in the TSCA inventory

#### Signs & Symptoms of Exposure:
- Eye and skin exposure may cause redness and irritation. May cause allergic reaction. Overexposure by inhalation or ingestion may lead to dizziness, loss of coordination, or severe gastric distress in extreme cases of overexposure.

#### Medical Conditions Generally Aggravated By Exposure:
- May aggravate existing skin or liver conditions.
- Hyperallergic persons should exercise reasonable precautions.

#### Emergency & First Aid Procedures:
- Inhalation: Move to fresh air.
- Eye or skin contact: Flush exposed area well with water for at least 15 minutes.
- If irritation persists seek medical assistance.
- Ingestion: Seek immediate medical assistance.

#### Steps To Be Taken In Case Material Is Released Or Spilled:
- Disconnect all ignition sources. Avoid eye or skin contact. DO NOT SWALLOW.
- Wear impervious gloves (such as disposable latex) and splash-proof chemical goggles.
- Soak up spills with an inert absorbent material. Place in a closed container for proper disposal.
- For major spills wear a NIOSH approved respirator for organic vapors.

#### Waste Disposal Method:
- Dispose of waste in accordance with all local, state, and federal regulations.

#### Precautions To Be Taken In Handling & Storage:
- Use only with appropriate equipment. Avoid open flame, spark or hot plate. Avoid skin and eye contact.
- DO NOT SWALLOW. Keep container closed when not in use. Work in a well-ventilated area. Wash well after use.
- Eye washes and safety showers are strongly recommended.
- Danger. UV solutions may boil-over and cause burns. Use protective gloves and other precautions.

#### Respiratory Protection:
- **Specify Type:** See information specific to spills.

#### Ventilation:
- **Local Exhaust:** Recommended
- **Mechanical:** (General) Acceptable

#### Special: Comply with local and state regulations

#### Other: Avoid ignition sources.

#### Protective Gloves:
- Strongly recommended

#### Eye Protection:
- Strongly recommended

#### Other Protective Clothing Or Equipment:
- Protective lab coat recommended.

#### Work/Hygienic Practices:
- Avoid all personal contact. Wear appropriate safety equipment. Wash well after use.