IMPORTANT: Read this MSDS before handling and disposing of this product and pass this information on to employees, customers and users of this product.

24 HOUR EMERGENCY TELEPHONE NUMBERS: INFOTRAC 1-800-535-5053

SECTION 1 GENERAL INFORMATION

TRADE NAME: PWB-ST INK

CAS NO.: Not available (mixture)
DOT HAZARDOUS MATERIALS PROPER SHIPPING NAME: N/A
DOT HAZARD CLASS: None
UN/NA ID NO.: None
HMIS CODES: 1H, 0F, 0R

SECTION 2 HAZARDOUS INGREDIENT

Titanium Dioxide CAS 13463-67-7

NFPA HAZARD RATINGS: Health 1, Flammability 0, Instability 0
Note: NFPA 704 hazard indexes involve data review and interpretation that may vary among companies. It is intended only for rapid, general identification of the magnitude of the potential hazards. To adequately address safe handling, ALL information in this MSDS must be considered.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Weight %</th>
<th>Components (CAS No.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>30-60</td>
<td>Water (7732-18-5)</td>
</tr>
<tr>
<td>25-50</td>
<td>Rubber Latex (Proprietary)</td>
</tr>
<tr>
<td>0.1-20</td>
<td>Titanium Dioxide (13463-67-7)</td>
</tr>
</tbody>
</table>

SECTION 4 FIRST AID MEASURES

INHALATION: Remove source of contamination or move person affected to fresh air. Obtain medical advice.
EYES: Quickly and gently blot or brush chemical off of face. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes, while holding the eyelid(s) open. Obtain medical advice.
SKIN: Remove contaminated clothing, shoes, and leather goods. Quickly and gently, blot or brush away excess chemical. Immediately wash with lukewarm, gently flowing water and non-abrasive soap for 15-20 minutes. Immediately obtain medical attention.
INGESTION: NEVER give anything by mouth if person affected is rapidly losing consciousness, or is unconscious or convulsing. Have person affected rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. Have person affected drink 60-240 ml (2 to 8 oz.) of water. If vomiting occurs naturally, have person affected rinse mouth with water again. Obtain medical advice.
SECTION 5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Use foam, water fog, carbon dioxide, or dry chemical
SPECIAL FIREFIGHTING PROCEDURES: Wear self-contained breathing apparatus and protective clothing. Use water to cool unopened containers.
HAZARDOUS COMBUSTION PRODUCTS: Carbon oxides and low molecular weight hydrocarbons.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Water based product. Flashpoint for this product is listed as Not Applicable due to the amount and presence of water. If the water has boiled off or evaporated, this product may exhibit properties of a Class II, IIIA or IIIB liquid.

SECTION 6 ACCIDENTAL RELEASE MEASURES

METHODS FOR CLEANING UP: Absorb spill with inert material, then place in a chemical waste container. Clean surface thoroughly to remove residual contamination. Keep product out of sewers and water ways.

SECTION 7 HANDLING AND STORAGE

PERSONAL PRECAUTIONS: Avoid breathing vapors at concentration greater than the exposure limits. Use only with adequate ventilation. Keep container tightly closed. Avoid contact with eye, skin, and clothing. Wash thoroughly after handling.
PREVENTION OF FIRE AND EXPLOSION: Keep away from open flames, hot surfaces and sources of ignition. Use only with adequate ventilation. Keep from contact with oxidizing materials. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of hazardous liquids.
STORAGE: Store in a cool place. Keep containers tightly closed in a cool, well-ventilated place. Keep away from incompatible substances (see incompatibility section.)

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>REGULATORY LIST</th>
<th>VALUE TYPE</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium Dioxide</td>
<td>ACGIH</td>
<td>Threshold Limit Value</td>
<td>10mg/m3 TWA (Total dust containing no asbestos)</td>
</tr>
<tr>
<td>(13463-67-7)</td>
<td>OSHA</td>
<td>Permissible Exposure Limit</td>
<td>15 mg/m3 TWA</td>
</tr>
</tbody>
</table>

VENTILATION: Use process enclosures, local exhaust, ventilation, or other engineering controls to maintain airborne exposure levels below recommended exposure limits. Controls should be sufficient so that applicable occupational exposure limits are not exceeded.
RESPIRATORY PROTECTION: If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved respirator must be worn. If respirators are used, a program should be instituted to assure compliance with applicable federal, state, commonwealth, provincial, or local laws and regulations.
EYE PROTECTION: Wear safety glasses with side shields (or goggles).
SKIN AND BODY PROTECTION: Wear impervious gloves and protective clothing appropriate for the risk of exposure.
RECOMMENDED DECONTAMINATION FACILITIES: Safety shower, eye wash, washing facilities as appropriated to conditions of use.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Semi-viscous liquid
Color: Various
Odor: Mild
Vapor Pressure: No data available
Density: 9.5 +/- 1.5 lb/gal
Vapor Density: Heavier than air
Boiling Point/Range: 250°F
Water solubility: Miscible
pH: 8.8-9.2
Evaporation Rate: Slower than ether
% Volatile Volume: 40-60% (water)
Flashpoint: Not Applicable*

*Water based. Flashpoint not applicable due to presence and amount of water in product. See Section 5 for additional information.

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable under normal circumstances
INCOMPATIBILITY: Avoid contact with strong oxidizers, acids, lithium, strong bases, organic peroxides, and halogens.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides and low molecular weight hydrocarbons
HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

EFFECTS OF EXPOSURE:
INHALATION: Harmful if inhaled. Excessive or deliberate inhalation of vapors can cause nausea, headache, respiratory tract irritation, dizziness, and/or asphyxiation.
EYES: Causes eye irritation. Symptoms may include tearing, redness and blurred vision.
SKIN: Causes skin irritation. May be absorbed through the skin. Prolonged or repeated skin contact may dry and defat the skin causing cracks, irritation, and/or dermatitis.
INGESTION: Harmful if swallowed. Ingestion can cause gastrointestinal irritation, vomiting, nausea and diarrhea.

SECTION 12 ECOLOGICAL INFORMATION

This product has not been tested for environmental effects.
SECTION 13 DISPOSAL CONSIDERATIONS

Discharge, treatment, or disposal may be subject to federal, state, commonwealth, provincial, or local laws. Since empty containers retain product residue, follow label warnings even after container is emptied.

SECTION 14 TRANSPORT INFORMATION

US DOT: Not regulated as a hazardous material for shipping.  
TDG: Not regulated as a dangerous good for transport.

SECTION 15 REGULATORY INFORMATION

Component Analysis: international inventory status:

<table>
<thead>
<tr>
<th>COMPONENTS (CAS. NO)</th>
<th>US-TSCA</th>
<th>CANADA –DSL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water (7732-18-5)</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Rubber latex (proprietary)</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Titanium Dioxide (13463-67-7)</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

COMPONENT ANALYSIS – right to know
The following chemicals are specifically listed or otherwise regulated by individual states. For details on your regulatory requirements you should contact the appropriate agency in your state.

<table>
<thead>
<tr>
<th>COMPONENTS (CAS NO.)</th>
<th>NJ</th>
<th>PA</th>
<th>CA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium Dioxide (13463-67-7)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

U.S. CALIFORNIA PROP. 65: None

CARCINOGENICITY CLASSIFICATION (COMPONENTS PRESENT AT 0.1% OR MORE):
INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IRAC): Titanium Dioxide (13463-67-7)  
AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS (ACGIH): None  
U.S. NATIONAL TOXICOLOGY PROGRAM (NTP): None  
U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA): None

CHEMICAL(S) SUBJECT TO THE REPORTING REQUIREMENTS OF U.S. SECTION 313 OR TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) OF 1986 AND 40 CFR PART 372: None

DISCLAIMER OF LIABILITY

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