

**PANNIER CORPORATION**  
**207 SANDUSKY STREET, PITTSBURGH, PA 15212-5823 U.S.A.**  
**412 323 4900**  
**www.pannier.com**  
**MATERIAL SAFETY DATA SHEET**

**PWB-ST INK**  
SEPTEMBER 16, 2009  
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**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:**  
**DOMESTIC US 800-424-9300**  
**INTERNATIONAL NUMBER: 703-527-3887**

**SECTION 1 GENERAL INFORMATION**

**TRADE NAME:** PANNIER PWB-ST INK  
**GENERIC NAME:** Rubber Ink  
**CHEMICAL FAMILY:** Mixture  
**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**

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

**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.

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**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 ACCIDENTIAL 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**

**OCCUPATIONAL EXPOSURE CONTROLS**

CHEMICAL NAME	REGULATORY LIST	VALUE TYPE	VALUE
Titanium Dioxide (13463-67-7)	ACGIH	Threshold Limit Value	10mg/m <sup>3</sup> TWA (Total dust containing no asbestos)
	OSHA	Permissible Exposure Limit	15 mg/m <sup>3</sup> TWA

**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.

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**RECOMMENDED DECONTAMINATION FACILITIES:** Safety shower, eye was, 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.

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**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:

<b>COMPONENTS (CAS. NO)</b>	<b>US-TSCA</b>	<b>CANADA -DSL</b>
Water (7732-18-5)	Yes	Yes
Rubber latex (proprietary)	Yes	Yes
Titanium Dioxide (13463-67-7)	Yes	Yes

**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.

<b>COMPONENTS (CAS NO.)</b>	<b>NJ</b>	<b>PA</b>	<b>CA</b>
Titanium Dioxide (13463-67-7)	Yes	Yes	Yes

**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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