

MATERIAL SAFETY DATA SHEET

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Section I: IDENTIFICATION

Product Name: Tzanck Stain Solution

Date Prepared: 12-08-03 *Date Revised*:* 11/02/06

Item Number: 400341

Emergency Phone, Infotrac: 800-535-5053

Section II: HAZARDOUS INGREDIENTS

<i>Hazardous Component(s):</i>	<i>CAS#</i>	<i>OHSA PEL, ACGIH TLV/STEL</i>		<i>NFPA</i>	
Methanol < 2%	67-56-1	200	200/250 ppm	<i>Health</i>	1
Ethanol < 29%	64-17-5	1000	1000/NR ppm	<i>Flammability</i>	3
paraRosaniline < 1%	569-61-9	NR		<i>Reactivity</i>	0
Toluidine Blue < 1%	92-31-9	NR			

Section III: PHYSICAL DATA

<i>Boiling Point:</i>	~200°F	<i>Specific Gravity (H₂O = 1):</i>	~1
<i>Vapor Pressure mm Hg/20 °C:</i>	79	<i>Percent Volatile by Vol:</i>	30%
<i>Vapor Density (Air 1:1):</i>	>1	<i>Evaporation Rate (ether = 1):</i>	>1
<i>Solubility in H₂O:</i>	Complete	<i>Appearance & Odor:</i>	Blue liquid, slight alcohol odor

Section IV: FIRE/EXPLOSION HAZARD

Flash Point: 56°F CC *Flammable Limits:* LEL, 3.3 UEL, 19.0

Extinguishing Media: Water spray, dry chemical, CO₂ and foam.

Special Fire Fighting Procedures: Wear protective clothing with NIOSH approved breathing apparatus. Products of combustion may be harmful in a fire situation. Do not use direct water stream.

Unusual Fire & Explosion Hazards: May emit toxic fumes under fire conditions.

Section V: REACTIVITY

Stability: Stable *Material to Avoid:* Strong oxidizers

Hazardous Decomposition or Byproducts: Oxides of carbon, nitrogen and chlorine

Hazardous Polymerization: Does not occur *Conditions to Avoid:* Excessive heat

Section VI: HEALTH HAZARDS

Product is not expected to present a serious health risk as presented in solution!

Routes of Entry: Inhalation, Skin and Ingestion *Target Organs:* Blood, thyroid

Acute: Vapors may cause eyes, skin and respiratory irritation, drowsiness, nausea, headache and vomiting.

Chronic: May cause liver, heart and kidney damage. May cause gastrointestinal disturbances and convulsions.

Carcinogenicity: Pararosaniline is a suspect carcinogen.

Signs/Symptoms of Exposure: Vision blurring, drowsiness and headache.

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Section VI: HEALTH HAZARDS

Emergency First Aid:

Skin: Remove contaminated clothing. Wash affected area with soap and water.

Eyes: Thoroughly flush eyes with water. Contact a physician if irritation persist.

Ingestion: Rinse mouth thoroughly with water, provided person is conscious and contact a physician.

Inhalation: Remove person to fresh air. If not breathing, give artificial respiration and contact physician.

Section VII: SAFE HANDLING

Chemical Release or Spill: Eliminate source of ignition in the vicinity of the spill or released vapor. Isolate the spill area with sand, or other absorbent material. Place all contaminated material in a closed container for disposal.

Waste Disposal Method: All liquid and or contaminated material should be disposed of in DOT approved waste containers. Incineration for liquids is the suggested method of disposal. Comply with all Federal, State and Local regulations for disposal.

Precautions for Handling and Storing: Use precautions for combustible liquids. Avoid excessive heat and sources of ignition. Use in ventilated area.

Section VIII: CONTROL MEASURES

Respiratory Protection: Not normally required. If used in a poorly ventilated area use under an approved fume hood or NIOSH approved respirator.

Ventilation: Mechanical exhaust is sufficient.

Protective Gloves: Chemical resistant *Eye Protection:* Safety glasses

Other Protective Clothing or Equipment: Normal laboratory apparel suggested by Good Laboratory Practices

Work/Hygienic Practices: Wash thoroughly with soap and water after handling.

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. HealthLink shall not be held liable for any damage resulting from handling or contact with this product.

*Change due to customer request. No substantial changes since prepared date.

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