

PULSE SCIENTIFIC INC.
Unit 18, 5100 South Service Road
Burlington, Ontario L7L 6A5 Canada

Emergency Telephone Number: (905) 333-8188

MATERIAL SAFETY DATA SHEET

Section 1. Product Information

- Trade Name and Synonyms: Indole (Sutter's) Reagent or PEP Reagent
- Chemical Family: Acid
- Formula: 1% dilution of paradimethylamino-cinnamaldehyde in a 1% dilution of a diluted HCl (diluted HCl = 10% of concentrated HCl) in water.
- Active Formula Ingredients: Acid

Section 2. Hazardous Ingredients

- Paints, Preservatives, and Solvents: N/A
- Alloys and Metallic Coatings: N/A
- Hazardous Mixtures of other liquids, solids, or gasses: Hydrochloric Acid (approximately 0.01N) is corrosive.

Section 3. Physical Data

- Boiling Point: N/A
- Specific Gravity: N/A
- Vapor Pressure: N/A
- % Volatile: N/A
- Evaporation Rate: N/A
- Solubility in Water: Complete
- Appearance and Odor: This reagent is a light yellow to tan, aqueous solution with an aromatic odor. It is used in conjunction with the Pulse PYR Disc to perform the indole test or "indole spot test". It is also used in conjunction with Pulse LAP Disc.

Section 4. Fire or Explosion Hazard Data

- Flash Point: N/A
- Flammable Limit: N/A
- Extinguishing Media: N/A

Section 5. Reactivity Data

- Stability: This product is stable if the proper storage conditions are observed (i.e. store at 2-8 °C, in the original and intact container).
- Incompatibility: N/A
- Hazardous Decomposition Product: N/A
- Hazardous Polymerization: N/A
- Conditions to Avoid: N/A

Section 6. Toxicological Properties

- Acute Effects: Harmful if inhaled. Harmful if swallowed. Causes eye irritation; Material is irritating to mucous membranes and upper respiratory tract. May cause skin irritation. It is anticipated that "technically qualified personnel" working in microbiology laboratories (those individuals who, because of professional or technical education, training or experience, understand the hazards involved prior to the time of exposure) are aware of the potential hazards as an integral part of their standard operational procedures.

Section 7. Preventive Measures

- Steps to be taken in case material is spilled or released: The products, by themselves, do not warrant special considerations. However, the anticipated use of these products can involve potential, disease-producing microorganisms. In these applications, immediately saturate the spill or leak with an aqueous germicidal reagent (i.e. 70% alcohol). After 15 minutes of exposure to the wet germicidal reagent, wipe up the spill or leak and dispose into a biohazardous container.
- Waste Disposal Methods: The products, by themselves, do not warrant special considerations. However, the anticipated use of these products can involve potential, disease-producing microorganisms. Precautions should be taken against microbial hazards. Sterilize (i.e. at 121 °C, 15 #, 15 minutes) or incinerate (EPA approved incinerator) all waste.
- Respiratory Precautions: The products, by themselves, do not warrant special consideration. However, the anticipated use of these products can involve potential, disease-producing microorganisms. The use of biological safety hoods and the prevention of aerosols must be dictated by the standard operational procedures of each individual laboratory.
- Protective Clothing: The products, by themselves, do not warrant special considerations. However, the anticipated use of these products can involve potential, disease-producing microorganisms. The use of gloves, moisture impervious aprons, and other protective clothing must be dictated by the standard operational procedures of each individual laboratory.

Section 8. First Aid Measures

- First Aids: In case of eye contact, immediately flush the eye with copious amounts of water for a minimum of 15 minutes. In case of skin contact, immediately wash skin with soap and copious amounts of water. If inhaled, immediately move to fresh air. If respiration is absent give artificial respiration. If respiration is difficult, give oxygen. Call a physician. If ingested, immediately wash out the mouth and call a physician.

Section 9: Preparation Information

- Prepared By: Puja Chopra (Quality Assurance Coordinator)
- Phone Number: 905-333-8188
- Revision Date: March 3, 2008
- Expiry Date: March 3, 2011

The statements contained herein are for informational use only and are intended only for persons having related technical skills and at their own discretion and risk. Since conditions of use are outside of our control, we make no warranties, expressed or implied, and assume no liability in connection with any use of this information.