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MATERIAL SAFETY DATA SHEET

Section 1. Product Information

- Trade Name and Synonyms: Carbon Dioxide Detection Test
- Chemical Family: Dye, Alcohol, and Bicarbonate Buffer
- Formula: The formula of this product is of a proprietary nature.
- Active Formula Ingredients: Solution A: Alcohol is used to dissolve a dye in this solution.
Solution B: A bicarbonate buffer complex is dissolved in deionized water in this solution.

Section 2. Hazardous Ingredients

- Paints, Preservatives, and Solvents: N/A
- Alloys and Metallic Coatings: N/A
- Hazardous Mixtures of other liquids, solids, or gases: The alcohol is flammable.

Section 3. Physical Data

- Boiling Point: N/A
- Specific Gravity: N/A
- Vapor Pressure: N/A
- % Volatile: N/A
- Vapor Density: N/A
- Evaporation Rate: N/A
- Solubility in Water: Complete
- Appearance and Odor: Disk: A white paper disk is used as the carrier for Solution A and B.
Solution A: A colorless solution with a sweet odor.
Solution B: A colorless solution.
Upon initial activation of Solution A with Solution B, a pink color is present. These products are used together to detect the presence of a 5% to 10% concentration of carbon dioxide.

Section 4. Fire or Explosion Hazard

- Flash Point: 100° F(CC) Alcohol
- Flammable Limit: N/A
- Extinguishing Media: Foam, CO₂, Dry Chemical

Section 5. Reactivity Data

- Stability: This product is stable if the proper storage conditions are observed. Storage conditions are stated in the product-labeling format (i.e. store at 15-30 °C, in the original and intact container).
- Incompatibility: N/A
- Hazardous Decomposition Products: N/A
- Hazardous Polymerization: N/A
- Conditions to Avoid: N/A

Section 6. Toxicological Properties

- Acute Effects: Solution A is: a) harmful if inhaled; b) harmful if swallowed; c) causes eye irritation; d) material is irritating to mucous membranes and upper respiratory tract, and; e) 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: Large spill is absorbed on paper, evaporated in a hood on a glass plate, and burned. Small spill is mopped up and rinsed down the drain with copious amounts of water.
- Waste Disposal Methods: Dispose of material in a landfill site approved for the disposal of chemical and hazardous waste. Comply with federal, state, county, and local environmental regulations.
- Respiratory Precautions: Use in a well ventilated area.
- Contact Precautions: Safety showers and eye baths must be readily available.
- Protective Clothing: 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 Aid: 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)
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