



Quality testing products from HybriVet Systems, Inc. PO Box 1210 Framingham, MA 01701  
 (508)651-7881 Fax: (508)651-8837 www.LeadCheck.Com

## MATERIALS SAFETY DATA SHEET

Page: 1  
 Date Prepared: 6/18/93  
 MSDS No.:MC001

### SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** MercuryCheck Swabs  
**Product Number:** Hg8  
**General Use:** Field test for Mercuric ion ( $Hg^{++}$ )  
**Product Description:** The cotton fiber tip of each MercuryCheck Swab is impregnated with a mercury reactive dye (orange powder). Within the barrel of the MercuryCheck Swab is a glass ampule containing a neutral wetting solution.

#### MANUFACTURER:

HybriVet Systems, Inc.  
 17 Erie Drive  
 Natick, MA 01760  
 800-262-5232 Information Hot Line; M-F, 8:30 am to 6:00 pm.

Date prepared: 6/18/93  
 Date revised: 3/24/98, 4/18/01  
 Name of Preparer: Meredith M. Hunter

### SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

None of the components of MercuryCheck Swabs listed above are known to be hazardous to health or to the environment as they do not appear on any CERCLA, EPA or OSHA list of hazardous chemicals. Furthermore, none of the chemicals listed below is present in amounts that exceed 1% by weight of the Swab. Therefore, technically, HybriVet Systems, Inc. is not required to provide an MSDS for this product. However, as a courtesy to our customers we are providing the following information in the format of an MSDS.

COMPONENT	KNOWN HAZARD	WT%	CAS Registry #
Mercury reactive dye	Unknown	<1%	Trade secret
Sodium Phosphate, Dibasic ( $Na_2HPO_4$ )	Irritant	<1%	7558-79-4
Sodium Phosphate, Monobasic ( $NaH_2PO_4$ )	Irritant	<1%	7558-80-7

### **SECTION 3. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW:** MercuryCheck Swabs look like a small white pen with a red cap. The end under the red cap contains a cotton tip which is impregnated with the mercury reactive dye (orange powder). Inside the white barrel of the Swab is a sealed glass ampule filled with a wetting solution. The wetting solution is a neutral sodium phosphate buffer. The sodium phosphate buffer may cause a slight irritation to the eye or skin on contact. Combustion of the product produces no known toxic fumes or by products.

**POTENTIAL HEALTH EFFECTS:** To the best of our knowledge the chemical, physical, and toxicological properties have not been thoroughly investigated for the mercury reactive dye.

**INHALATION:** May be harmful.

**EYE CONTACT:** May cause eye irritation.

**SKIN CONTACT:** May cause moderate skin irritation or may be harmful if absorbed.

**INGESTION:** May be harmful if ingested.

**CHRONIC:** May be harmful upon chronic exposure.

### **SECTION 4. FIRST AID MEASURES**

**INHALATION:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

**EYE CONTACT:** In case of contact, immediately flush eyes with large amounts of water for a least 15 minutes.

**SKIN CONTACT:** In case of contact, immediately wash skin with soap and large amounts of water.

**INGESTION:** If swallowed and the person is conscious, immediately give large amounts of water. Get medical attention.

**NOTE:** Wash contaminated clothing before reuse.

### **SECTION 5. FIRE FIGHTING MEASURES**

**Flashpoint and Method:** N/A

**Flammable Limits:** N/A

**Autoignition Temperature:** Not Available

**GENERAL HAZARD:** No special precautions need be taken.

#### **FIRE FIGHTING INSTRUCTIONS:**

Extinguishing media - water spray, carbon dioxide, dry chemical powder, alcohol or polymer foam or other extinguishing media appropriate for surrounding fire.

**FIRE FIGHTING EQUIPMENT:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**HAZARDOUS COMBUSTION PRODUCTS:** Emits toxic fumes of carbon monoxide, carbon dioxide, and nitrogen oxides.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

**LAND SPILL:** Should a large quantity of MercuryCheck Swabs (several case lots) be spilled and crushed, wear suitable protective clothing, chemical safety goggles, rubber boots and heavy rubber gloves. Carefully sweep up the debris and place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pick-up is complete.

**WATER SPILL:** Should a large quantity of MercuryCheck Swabs be accidentally dumped into a large body of water, simply recover the Swabs and dispose appropriately.

## **SECTION 7. HANDLING AND STORAGE**

**STORAGE TEMPERATURE:** Ambient  
**STORAGE PRESSURE:** Atmospheric

**GENERAL:** Avoid contact with eyes, skin and clothing. Wash hands thoroughly after handling or wear protective gloves. Keep kits tightly closed and store in a cool dry place.

## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**ENGINEERING CONTROLS:** Use in a well ventilated area.

### **PERSONAL PROTECTION:**

**RESPIRATOR:** not necessary when using individual MercuryCheck Swabs.

**PROTECTIVE CLOTHING:** No specialized clothing required.

**EXPOSURE GUIDELINES:** Avoid prolonged exposure.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

### **A. Mercury reactive dye**

**Physical State:** solid  
**Appearance:** orange powder  
**Odor:** none  
**pH:** N/A  
**Freezing Point:** N/A  
**Solubility in water:** moderate

**Vapor Pressure:** N/A  
(Air = 1)  
**Evaporation Rate:** N/A  
(n-Butyl Acetate = 1)  
**Melting Point:** 156°C to 159°C

### **B. Sodium Phosphate Buffer**

**Physical State:** liquid  
**Appearance:** clear  
**Odor:** none

**Viscosity:** 1.0

**Vapor Pressure:** N/A  
(Air = 1)  
**Evaporation Rate:** N/A pH: 7.5  
(n-Butyl Acetate = 1)  
**Freezing Point:** 32°F (0°C)  
**Boiling Point:** 212°F (100°C)

**SECTION 10. STABILITY AND REACTIVITY**

**GENERAL:** The reagents contained in MercuryCheck Swabs are stable. Hazardous polymerization will not occur for sodium phosphate. No hazardous polymerization has been documented for the mercury reactive dye.

**INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:** Strong oxidizing agents

**HAZARDOUS DECOMPOSITION:** Toxic fumes of carbon monoxide, carbon dioxide, and nitrogen oxides can form on combustion or decomposition.

**SECTION 11. TOXICOLOGICAL INFORMATION**

To the best of our knowledge, the toxicological properties of the mercury reactive dye have not been thoroughly investigated.

**SECTION 12. ECOLOGICAL INFORMATION**

No data are available on the adverse effects of these materials on the environment.

**SECTION 13. DISPOSAL CONSIDERATIONS**

Individual MercuryCheck Swabs may be disposed of as nonhazardous waste.

**SECTION 14. TRANSPORT INFORMATION**

**DOT (Department of Transportation):** Not a hazardous material for DOT shipping.

**PROPER SHIPPING NAME:** MercuryCheck Swabs

**HAZARD CLASS:** none

**IDENTIFICATION NUMBER:** none

**SECTION 15. REGULATORY INFORMATION**

**TSCA (Toxic Substance Control Act):** Components of this product are listed on the TSCA Inventory.

**CERCLA (Comprehensive Response Compensation, and Liability Act):** This product contains no Reportable Quantity (RQ) Substances. We recommend you contact local authorities to determine if there may be other local reporting requirements.

**SARA TITLE III (Superfund Amendments and Reauthorization Act):** 311/312 Hazard Categories: The components of this product has been reviewed according to the EPA Hazard Categories promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and this product is considered, under applicable definitions, to meet the following categories:

Not to have met any hazard category.

313 Reportable Ingredients: None.

**CALIFORNIA PROPOSITION 65:** The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986. This product contains **NO** chemicals known to the state of California to cause cancer.

**SECTION 16. OTHER INFORMATION**

No specific notes.

REVISION SUMMARY: Revised 3/24/98 to remove one of the 800 phone numbers.

Revised 4/18/01; In Section 14, DOT information updated. In Section 15, Statement concerning components listed on TSCA inventory was corrected.

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THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. IT MAY NOT BE VALID FOR THIS MATERIAL IF USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. HYBRIVET SYSTEMS SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT.

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----- Last Page -----