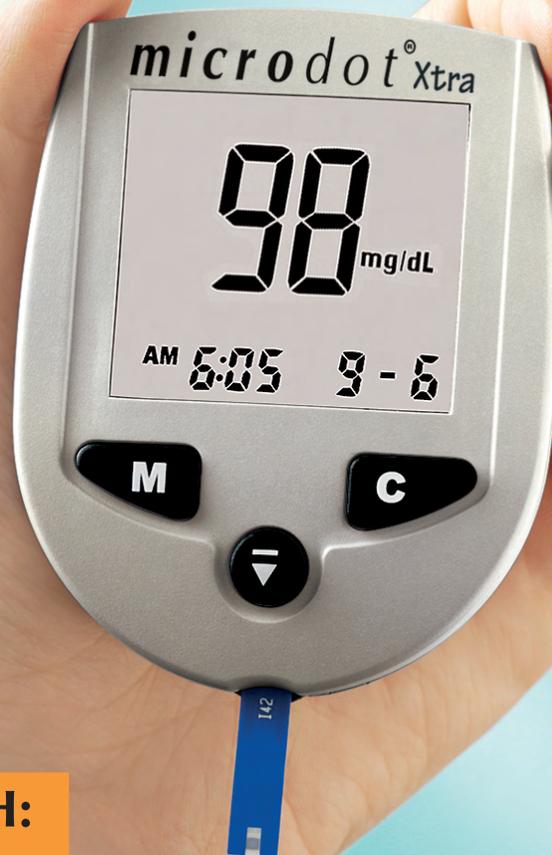


FAST. ACCURATE. EASY TO USE.

# microdot<sup>®</sup> Xtra

Blood Glucose Monitoring System

OPERATIONS & QUALITY ASSURANCE  
PROCEDURE MANUAL



USE ONLY WITH:



microdot<sup>®</sup> xtra test strips

For  
Healthcare  
Professionals

CS<sup>®</sup>

CAMBRIDGE SENSORS USA, LLC

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## *microdot*<sup>®</sup> Xtra **BLOOD GLUCOSE METER OVERVIEW**

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### **This section provides general information on the microdot<sup>®</sup> Xtra Blood Glucose Monitoring System**

The microdot<sup>®</sup> Xtra Blood Glucose Monitoring System is a portable whole blood testing system which performs tests with quick and accurate results.

***It consists of three main parts:***

1. microdot<sup>®</sup> Xtra Blood Glucose Meter
2. microdot<sup>®</sup> Xtra Test Strips
3. microdot<sup>®</sup> High and Low Control Solution

These products have been designed, tested and proven to work together as a system to produce safe and accurate results.

Use only microdot<sup>®</sup> Xtra Test Strips and Control Solutions with the microdot<sup>®</sup> Xtra Glucose Meter.

Your system includes:

- microdot<sup>®</sup> Xtra Meter
- Protective Orange Meter Sleeve
- Quality Assurance Manual
- Lifetime Warranty
- 3V Lithium Battery (installed)

Additional components include:

- microdot<sup>®</sup> Xtra Test Strips
- microdot<sup>®</sup> High and Low Control Solutions

## SYSTEM COMPONENTS

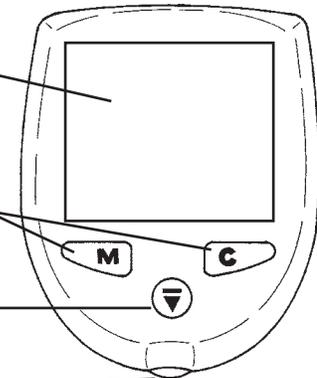
### *microdot*<sup>®</sup><sub>Xtra</sub> Blood Glucose Meter

**LCD Screen:** Shows blood glucose result and symbols that guide you through the test.

**Up/Down Toggle Buttons:** Scrolls the memory, sets time and date.

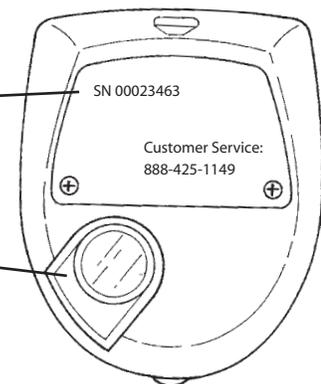
**Eject Button:** Releases test strip.

**Test Strip Port:** Insertion site for test strip.



**Serial Number:** Located in the upper left hand corner of the meter. Required when calling Customer Service for troubleshooting or meter replacement.

**Battery Compartment:** Holds one 3V Lithium battery (CR2032).



**Customer Service Number:** Located on the back of the meter. Call this number if you have any questions or problems with the *microdot*<sup>®</sup> Xtra Glucose Meter. (877) 374-4062

## SYSTEM COMPONENTS

### *microdot*<sup>®</sup><sub>Xtra</sub> Test Strip

The microdot<sup>®</sup> Xtra Blood Glucose Test Strip offers the latest advances in biosensor, auto-code technology. Blood is applied to the top edge of the microdot<sup>®</sup> Xtra Test Strip and is automatically drawn into the white channel where the reaction takes place. Only 600 nanoliters (0.6 microliters) is needed.

**The microdot<sup>®</sup> Xtra Test Strip consists of the following parts:**

**Top Edge:** Apply a drop of blood here, where the white channel meets the top of the edge strip.

**White Channel:** This is where you check if enough blood has been applied to the top edge.

**Contact Bars:** Insert this end of the test strip into the meter. Push firmly until the strip can go no further.



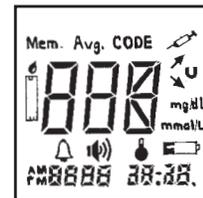
## INITIAL SETUP OF THE *microdot*<sup>®</sup> Xtra METER

Before using the microdot<sup>®</sup> Xtra Meter for the first time, you should set the actual Time, Date and Year. The unit of measurement is preset and cannot be changed.

### Setting the Time, Date and Year

#### **Enter the Set Mode.**

To Enter the set mode, turn the meter on by pressing the **C button**. After the segment test, the time and date will start to flash.

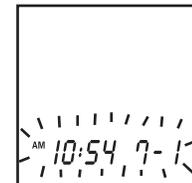


#### **Step 1**

##### **Set the Time and Date Format.**

Pressing the **C button** again will now toggle between U.S. and International Time and Date formats.

1.



For U.S.: 12h Time format, mm-dd (begins with AM setting). To accept the desired setting, press the **M button**.

#### **Step 2**

##### **Set the Hour.**

The Hour will start to flash. It can now be changed by pressing the **C button**. The U.S. setting will begin at 12:01 AM and will move to PM. To accept the correct setting, press the **M button**.

2.

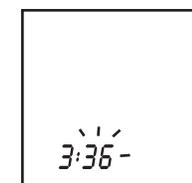


#### **Step 3**

##### **Set the Minutes.**

The Minute will start to flash, it can now be changed by pressing the **C button**. To accept the correct setting, press the **M button**.

3.

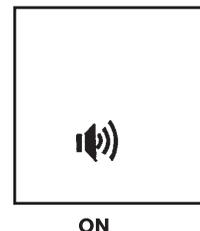


**Repeat Steps 1 & 2 to set Month and Year.**

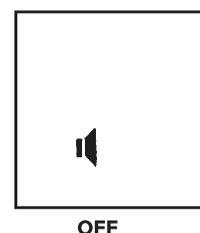
# INITIAL SETUP OF THE *microdot*<sup>®</sup> Xtra METER . . . . .

### Setting the Beeper

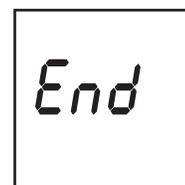
After setting the Time and Date, the Sound Symbol will appear and can now be changed by pressing the C button. To accept the setting, press the M button.



This option is used to switch the beeper on or off. When turned ON, a sound will be heard when blood or control solution is applied to the strip and when the test is finished. The sound will be heard when an error has occurred or if an alarm is triggered.



When the M button is pressed to accept the beeper option, the meter will display END and switch off.



# INITIAL SETUP OF THE *microdot*<sup>®</sup> Xtra METER

## Using Meter Memory

Your microdot<sup>®</sup> Xtra Meter stores the 500 most recent blood glucose, control solution test results and insulin data with date and time in the memory. It also provides you with 14-day averages of your blood glucose test results. You can review the test results in memory with these easy steps.

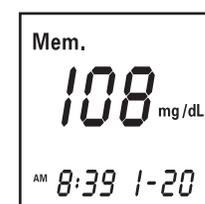
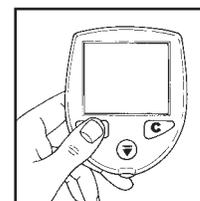
### Step 1

#### **Enter the Memory Mode.**

To Enter Memory Mode, turn on the meter by pressing the **M button**.

The meter will display the last result with Mem. Symbol, Time and Date.

1.

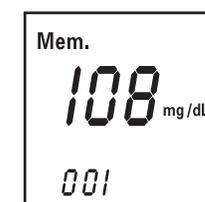
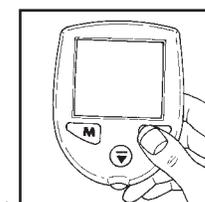


### Step 2

#### **Recall Test Results.**

Previous results can be displayed by pressing the **C button**. As long as the **C button** is held, the meter will scroll through the memory displaying the result and the memory location. Once the button is released, the meter will display the selected result with its Time and Date. When the memory is full (500 results stored), the oldest result is dropped as the newest is added.

2.



**NOTE:** When using the meter for the first time “Mem.---” will appear, showing that there are no test results stored in memory.

# CONTROL SOLUTION TESTING

---

This chapter describes the necessary steps to test with the microdot® Control Solutions in order to validate the performance of the microdot® Xtra Meter and microdot® Xtra Test Strips.

### When Should You Conduct a Control Solution Test?

- Any time you open a new vial of test strips.
- Whenever you think the system is not working properly.
- If the blood glucose test results differ from the resident's symptoms or non-symptoms.
- If you believe the results are not accurate.
- If you drop the meter.
- If the vial of test strips has been left open for an extended period of time.

It is critical to follow the Operating Guidelines, on the right, to obtain accurate results while using the microdot® Xtra Glucose System.

### Operating Guidelines:

- Use only microdot® Control Solutions (High and Low).
- Check the expiration date on the control solution vial. Do not use if expired or if the discard date has passed.
- Control solution, meter and test strips should come to room temperature before testing (66-77°F / 20-25°C).
- Use solution for three months after first opening. Record the discard date (opening date plus three months) on the control solution vial. Discard after three months.
- Close tightly and store the control solution at temperatures between 50-86°F (10-30°C).
- Do not refrigerate. Do not freeze.

## CONTROL SOLUTION TESTING

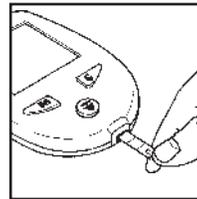
### Notes:

The control solution test is similar to a blood test except that you use microdot® Control Solution instead of a drop of blood. The control solution ranges printed on the test strip vial are for microdot® Control Solutions only. It is used to check the meter and test strip performance. It is NOT a recommended range for your blood glucose level. When performing a control solution test it does not matter which solution you use first, the Low or High.

### Control Solution Test Procedure:

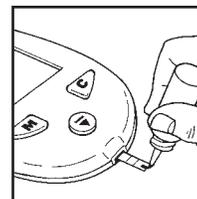
1. Shake Low Control Solution bottle well before using.
2. Remove cap and discard the first drop of Control Solution and wipe off the dispenser tip to ensure a good sample and an accurate result.
3. Insert a test strip into the microdot® Xtra Meter. Be sure the black contact bars go into the meter. Push the strip in firmly. Be sure it can go no further.

3.



4. Invert bottle and squeeze out one drop of control solution. Apply the drop to the strip by bringing the meter and the strip to the drop. Touch the drop with the top edge of the test strip and wait until the test pad fills with the solution. Results appear in 10 seconds.

4.



# CONTROL SOLUTION TESTING

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5. Compare the results with the ranges of expected results shown on the test strip vial. (Low = Blue Cap, High = Red Cap)

6. You should obtain results within the expected range printed on the test strip vial. If this is not so, repeat the test.

If the results are out of the range printed on the test strip vial, check the following:

- *Was the vial at room temperature?*
- *Did you shake the bottle of control solution before using?*
- *Has the control solution expiration or discard date expired?*
- *Is the meter malfunctioning?*

7. Repeat steps 1-6 for the High Control Solution procedure.

If the test result is still out of range, call your microdot® Customer Service Representative at:

**Toll Free (877) 374-4062**

**DO NOT** test blood until you obtain control results within the expected ranges.

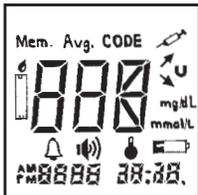
## TESTING WITH PATIENTS

This section describes the procedure to test patient blood samples using the microdot® Xtra Blood Glucose System.

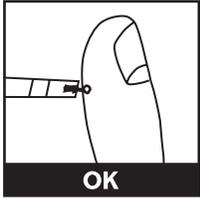
### Operating Guidelines

- Before attempting to test with real blood, make sure you have performed control solution tests correctly to insure the meter and test strips are performing properly and to verify technique.
- Use the test strips before their expiration date and within three months after opening.
- Do not use test strips that are wet, bent, scratched or damaged. Use each test strip immediately after removing it from the vial.

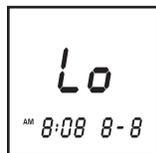
### Patient Test Procedure:

	What You Do	Notes
	<p>1. Press the <b>C button</b> to turn the meter on and/or insert test strip by pushing the two contact bars in firmly.</p>	<p>To verify all display symbols are working, all symbols should appear at the same time. If any of the symbols are missing or do not display completely, contact <b>Cambridge Sensors USA</b> at <b>(877) 374-4062</b></p>
	<p>2. Obtain a drop of blood.</p>	<p>Using a safety lancet, lance the side of the finger to obtain a rounded blood sample. Avoid squeezing the puncture site excessively.</p>

## TESTING WITH PATIENTS

	What You Do	Notes
 	<p>3. Apply sample.</p>	<p>The blood drop symbol will flash alternately to indicate the meter has detected that a test strip has been inserted and is ready for the blood sample to be added.</p> <p>Apply the drop of blood directly to the edge of the test strip, and allow the sample to wick automatically into the test zone.</p> <p>If you do not apply a blood sample within one minute, the meter will turn itself off. Either reinsert the test strip or press the <b>M button</b> to turn the meter back on.</p>
	<p>4. Results in 10 seconds.</p>	<p>After an adequate blood sample has been applied to the test strip, the microdot® Xtra Meter will display three running dashes, which indicates the meter is performing the test. After 10 seconds, the test result will display.</p>
	<p>5. Dispose of lancet.</p>	<p>Dispose of used lancet in an approved sharps container.</p>
	<p>6. Dispose of test strip.</p>	<p>Simply press the eject button on the meter to dispose of used test strip.</p>

Note: If the blood test result is lower than 20 mg/dL, “Lo” will appear on the meter display. This indicates severe hypoglycemia (low blood glucose). You should immediately treat your hypoglycemia as recommended by your physician’s protocol.



If the blood test result is higher than 525 mg/dL, “Hi” will appear on the meter display. This indicates severe hyperglycemia (high blood glucose). You should immediately treat your hyperglycemia as recommended by your physician’s protocol.



# *microdot*<sup>®</sup> Xtra METER SPECIFICATIONS

<b>Sample Size</b>	0.6 Microliters (600 Nanoliters)
<b>Total Test Time</b>	10 Seconds
<b>Sample Application</b>	Strip is placed in the meter and sample wicks into strip
<b>Hematocrit Range</b>	30 - 50%
<b>Measurement Range</b>	20 to 525 mg/dL
<b>Interference</b>	No interference from over 20 interfering substances
<b>Strip Removal</b>	Strip ejection by push button
<b>Coding</b>	Auto-code
<b>Accuracy of Strip/Meter System</b>	At least +/- 20% relative to YSI in clinical trials Correction Coefficient of Regression > 0.969
<b>Precision of Strip</b>	The strip variation is not greater than 6.4%
<b>Shelf Life of Meter</b>	Approx. 5 years
<b>Operating Humidity range</b>	10 - 90%; storage 90% max (non-condensing)
<b>Operating Temperature</b>	50° - 104°F (10° - 40°C)
<b>Type of Glucose Result</b>	Plasma equivalent
<b>Strip Vial Packing Size</b>	50 strips per vial
<b>Typical Control Solution Ranges</b> when used with Strips/Meter	Printed on vial label
<b>Strip Shelf Life after Opening</b>	3 months
<b>Strip Vial</b>	Plastic with desiccant sleeve vial
<b>Altitude</b>	To 10,000 ft (Target)
<b>Module Size</b>	65 mm x 85 mm x 16 mm
<b>Weight</b>	Approx. 60 grams / 2 ounces
<b>Battery Life</b>	1,500 tests or about 1 year at three tests per day
<b>Glucose Units</b>	mg/dL or mmol/L
<b>Memory</b>	Total of 500 glucose results and insulin-input data
<b>Power Source</b>	One replaceable 3V lithium battery (CR2032 or equivalent)
<b>Automatic Shut-off</b>	One minute after last user action
<b>Warranty</b>	1 Year Manufacturer Warranty

# IN-SERVICE TRAINING OUTCOMES

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Once your microdot® Xtra Meter in-service is complete, Health Care Professionals should be able to:

---

1. Locate and explain the following components of the microdot® Xtra Meter:

*Eject Button*  
*Test Strip Port*  
*Battery Compartment*  
*Serial Number*  
*Customer Service Number*

2. Locate and explain the label information on the microdot® Xtra Test Strip Vial:

*Discard Date*  
*Lot Number*  
*Expiration Date*  
*Control Ranges*  
*Storage Temperature Range*

3. Set Time and Date of meter

4. Identify three parts of the microdot® Xtra Test Strips

Top Edge  
Test Pad  
Contact Bars

5. Identify the following parts of the microdot® Control Solution Bottles:

Low vs. High  
Discard Date  
Lot Number  
Expiration Date  
Storage Temperature Range

6. Properly insert the microdot® Xtra Test Strip

7. Perform control solution tests

8. Document and maintain microdot® Xtra Quality Control Records

9. Obtain a blood sample

10. Perform a blood test

11. Identify meter result range

12. Access meter memory

13. Change the battery

14. Identify and resolve error readings

*microdot*<sup>®</sup> Xtra **BLOOD GLUCOSE MONITORING SYSTEM**  
**LOG SHEETS**

.....

**The forms in this chapter are Master Copies.  
Please make photocopies for distribution.  
If you need replacement documents, please  
contact Customer Service at (877) 374-4062**





## *microdot*<sup>®</sup> Xtra BLOOD GLUCOSE MONITORING SYSTEM QUALIFIED TRAINER/OPERATOR CERTIFICATION FORM . . . . .

**I. *microdot*<sup>®</sup> Xtra Meter - Locate the following:**

- a. Battery
- b. Serial Number
- c. Toll Free Customer Service Number
- d. Eject Button

**II. Identify and explain the following:**

- a. Blood Test Procedure
- b. Control Solution Procedure
- c. Troubleshooting

**III. Explain proper procedure for:**

- a. Dating of *microdot*<sup>®</sup> Xtra Test Strips and Control Solution
- b. When to perform a Control Test
- c. Handling Control Solution results that are out of range

**IV. Perform and explain the following procedures:**

- a. Control Solution testing
- b. Blood testing
- c. Recalling test results
- d. Changing the battery

*If all tasks were not properly completed, have the operator repeat the procedure correctly. When all tasks have been properly completed, sign bottom of this form and fill out the proper Qualified Trainer or In-service form.*

**Cambridge Sensors USA Sales Rep.** \_\_\_\_\_ **Date** \_\_\_\_\_

**Qualified Trainer** \_\_\_\_\_ **Date** \_\_\_\_\_

**Operator** \_\_\_\_\_ **Date** \_\_\_\_\_



## SAFETY DATA SHEET

---

*microdot*<sup>®</sup><sub>Xtra</sub> Blood Glucose Test Strips

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### Section I - Identification

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<b>Trade Name:</b>	microdot <sup>®</sup> Xtra Blood Glucose Test Strips
<b>Common Name:</b>	Blood glucose test strips for use with microdot <sup>®</sup> Xtra Blood Glucose Test System
<b>Supplier:</b>	Cambridge Sensors USA 10051 Bode Rd. Plainfield, IL 60585
<b>Emergency Phone Number:</b>	(877) 374-4062

---

### Section II - Composition

---

This product does not present a physical or health hazard under reasonable use or under emergency situations involving a release of only this product. This material is therefore not considered to be a "Hazardous Chemical" as defined by the Federal Occupational Safety and Health Administration in the Hazard Communication Standard (29 CFR 1910.1200) or the equivalent standards generated by state agencies.

**ACCORDINGLY NO MATERIAL SAFETY DATA SHEET IS REQUIRED FOR THIS PRODUCT.**

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MSDSs that represent non-hazardous chemicals are not covered by the HCS. Paragraph 29 CFR 1910.1200 (g) (8) of the standard requires that "the employer shall maintain in the workplace copies of the required MSDSs for each hazardous chemical, and shall insure that they are readily accessible during each work shift to employees when that are in their work area(s)". OSHA does not require or encourage employers to maintain MSDSs for non-hazardous chemicals. Consequently, an employer is free to discard MSDSs for non-hazardous chemicals.

# SAFETY DATA SHEET

microdot® Control Solutions

## Section I - Identification

<b>Trade Name:</b>	microdot® Control Solutions
<b>Common Name:</b>	Control Solutions for use with microdot® Xtra Blood Glucose Test System
<b>Supplier:</b>	Cambridge Sensors USA 10051 Bode Rd. Plainfield, IL 60585
<b>Emergency Phone Number:</b>	(877) 374-4062

## Section II - Composition / Information on Ingredients

<b>Chemical Family:</b>	Salt solution
<b>Chemical Name:</b>	N/A

## Section III - Hazards Identification

<b>Eye Contact:</b>	May cause irritation if in contact with eye.
<b>Skin Contact:</b>	Skin contact may cause irritation.
<b>Ingestion:</b>	Though not a likely route of occupational exposure, ingestion of the product may cause choking, vomiting or nausea.
<b>Inhalation:</b>	N/A
<b>Chronic Exposure</b>	N/A

## Section IV - First Aid Measures

<b>Eye Contact:</b>	Although no adverse health reactions are expected from the normal use of this product, it is recommended to flush eyes with water and seek medical advice whenever there is a potential injury to the eye.
<b>Skin Contact:</b>	If contact with this product leads to reddening, inflammation or irritation, flush the exposed area with running water. If irritation persists, get medical attention.
<b>Ingestion:</b>	As a precaution, get medical attention if there has been ingestion of this product.
<b>Inhalation:</b>	If breathing becomes difficult, remove victim to fresh air and get medical attention.
<b>Chronic Exposure:</b>	N/A

# Chapter 8

## SAFETY DATA SHEET

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microdot® Control Solutions

---

### Section V - Fire Fighting Measures

---

<b>Auto-flammability</b>	Not determined
<b>Flash Point (test method)</b>	Not determined
<b>Extinguishing Media</b>	Use fire extinguishing media appropriate for site collections.
<b>Special Fire Fighting Procedures</b>	Structural fire fighting gear and self-contained breathing apparatus will provide adequate protection if this product is in a fire area.
<b>Fire and Explosion Hazards</b>	Not determined
<b>Hazardous Combustion Products</b>	Thermal decomposition may emit carbon monoxide and carbon dioxide.
<b>Upper Explosion Limit (%)</b>	Not determined
<b>Lower Explosion Limit (%)</b>	Not determined

---

### Section VI - Accidental Release Measures

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<b>Spill and Leak Procedures</b>	Use an absorbent material to contain/pick up the spilled solution. Place all contaminated disposals into a suitable container, seal, label and hold for disposal.
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### Section VII - Handling and Storage

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<b>Storage Temperature</b>	Store vials as directed in the package insert.
<b>Handling/Storage</b>	Handle and store vials as directed by the package insert.
<b>Ventilation Requirements</b>	No special requirements.
<b>Sensitivity to Static Electricity</b>	Not known
<b>Sensitivity to Mechanical Impact</b>	Not known

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### Section VIII - Exposure Controls / Personal Protection

---

<b>Respiratory Protection</b>	Not required under normal use of this product.
<b>Ventilation</b>	Not required under normal use of this product.
<b>Protective Gloves</b>	Wear appropriate gloves to prevent skin contact. Replace torn or punctured gloves promptly.
<b>Other Protective Equipment</b>	Wear appropriate eye protection to prevent eye contact. Wear appropriate body protection to prevent skin contact.
<b>Other Engineering Controls</b>	Eye wash stations and deluge showers.
<b>Work Practices</b>	Good laboratory technique should be used when handling this product. Observe appropriate chemical hygiene. Do not place in mouth.
<b>Hygienic Practices</b>	Do not eat, drink or smoke while working with this product. Upon completion of work activities involving this product, wash hands thoroughly with soap and water.

# SAFETY DATA SHEET

microdot® Control Solutions

## Section IX - Physical and Chemical Properties

<b>Pure Substance or preparation</b>	Preparation Physical Form Liquid
<b>Appearance/Odor</b>	Blue, odorless pH AS is neutral
<b>Odor Threshold</b>	Not determined
<b>Melting/Freezing</b>	Not determined
<b>Partition</b>	Not determined
<b>Evaporation Rate</b>	Not determined
<b>Vapor Pressure (mmHg)</b>	Not determined
<b>Vapor Density (air =1)</b>	Not determined
<b>Viscosity</b>	Not determined
<b>Volatiles</b>	Not determined
<b>Volatile Organic Compounds</b>	Not determined
<b>Auto-flammability</b>	Not determined
<b>Flash Point</b>	Not determined
<b>Oxidizing Properties</b>	Not determined
<b>Stability</b>	Stable
<b>Materials to Avoid</b>	Strong bases, strong acids and water reactive materials
<b>Hazardous Decomposition Products</b>	Thermal decomposition may emit carbon monoxide and carbon dioxide.

## Section X - Toxicological Information

<b>Route of Entry</b>	Ingestion, skin and/or eye contact
<b>Effects of Chronic Exposure</b>	Not known
<b>Effects of Acute Exposure</b>	Not known
<b>Special Health Effects</b>	Not known
<b>Target Organs</b>	Not known

## Section XI - Ecological Information

<b>Potential Effect on Environment</b>	Not known
<b>Potential to Bioaccumulate</b>	Not known
<b>Mobility</b>	Not known
<b>Ecotoxicity</b>	Not known
<b>Persistence and Degradability</b>	Not known
<b>Aqua Toxicity</b>	Not known

## Section XII - Disposal Considerations

<b>Water Disposal</b>	Please consult local, state and federal regulations for additional guidance on disposal.
<b>Empty Container Warnings</b>	Not known

## Chapter 8

# SAFETY DATA SHEET

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microdot® Control Solutions

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### Section XII - Transport Information (See also Section IX)

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<b>ADR / RID</b>	Not known
<b>CEPIC Tremcard</b>	Not known
<b>Hazchem Code</b>	Not known
<b>Kemmler Code</b>	Not known
<b>IMDG Classification</b>	Not known
<b>IATA Classification</b>	Not known
<b>Marine Pollutant</b>	Not known
<b>UN Number</b>	Not known
<b>UN Class</b>	Not known
<b>UN Packing Group</b>	Not known

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### Section XIV - Regulatory Information

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<b>EEC Hazard Classification</b>	Not known
<b>Risk Phrases</b>	Not known
<b>Safety Phrases</b>	Not known

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### Section XV - Other Information

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Directives 88/379/EEC and 91/155/EEC have been considered when compiling this MSDS; the information is provided for health and safety assessment by an industrial user. Reference should be made to any relevant local or national health, safety or environmental legislation. This information does not constitute indication of suitability for specific uses. The information, data, and recommendations contained herein are based upon information believed by Cambridge Sensors USA, after reasonable investigation and research, to be accurate. However, Cambridge Sensors USA does not warrant the accuracy of this information. All materials and mixtures may present unknown hazards and should be used with caution. When necessary or appropriate, independent opinions regarding the risk of handling or exposure should be obtained from trained professionals. Cambridge Sensors USA disclaims any warranty against patent infringement and the implied warranties of merchantability and fitness for a particular purpose. Customer's sole and exclusive remedy shall be replacement of the product or return of the product and refund of the purchase price, at Cambridge Sensors USA option. In no case can Cambridge Sensors USA be liable for incidental or consequential damages, including lost profits.

**SAFETY DATA SHEET**

microdot® Bleach Wipe

**Product and Company Identification**

**PRODUCT NAME:** microdot® BLEACH WIPE  
**PRODUCT DESCRIPTION:** WIPE PRESATURATED WITH PRE-DILUTED BLEACH  
**TRADE NAME:** microdot® BLEACH WIPE  
**GENERAL USE:** Hospital Disinfectant  
**CHEMICAL FAMILY:** Sodium hypochlorite  
**PRODUCT DESCRIPTION:** Bleach disinfectant formula absorbed on towels. Mild bleach odor.  
 microdot® BLEACH WIPE  
 HOSPITAL CLEANER DISINFECTANT TOWELS WITH BLEACH  
**MANUFACTURER:** MEDTROL, INC.  
**MANUFACTURED FOR:** CAMBRIDGE SENSORS USA, LLC  
**DATE PREPARED:** September 25, 2012

**ADDRESS:** 7157 N. AUSTIN AV. NILES, IL 60714  
**ADDRESS:** 10051 BODE RD. PLAINFIELD, IL 60585  
**TELEPHONE NUMBER FOR INFORMATION / CUSTOMER SERVICE:** 877-374-4062  
**24-HOUR EMERGENCY TELEPHONE NUMBER:** CHEMTREC 800-424-9300

**Section II - Composition/Information on Ingredients**

Hazardous Components	% (by Weight)	CAS#
Sodium hypochlorite	<1.05%	7681-52-9

Notes: \* The balance of ingredients not listed above are non-hazardous as defined in the OSHA hazard communication standard 29CFR 1910.1200.

**Section III - Hazards Identification****EMERGENCY OVERVIEW:**

Avoid contact with eyes, skin, and clothing as this product may produce irritation. Do not allow this product to contact acidic materials as hazardous chlorine gas may be released.

**POTENTIAL HEALTH EFFECTS**

**INHALATION:** No adverse effects are anticipated from inhalation.  
**SKIN:** Normal exposure (contact) is not likely to cause significant skin irritation.  
**EYES:** Causes moderate eye irritation.  
**INGESTION:** May cause gastrointestinal irritation and upset.  
**CARCINOGENICITY:**

NTP? NO                      IARC MONOGRAPHS? NO                      OSHA REGULATED? NO  
 CALIFORNIA, Prop.65? NO

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## SAFETY DATA SHEET

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microdot® Bleach Wipe

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### Section IV - First Aid Measures

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**INHALATION:** No specific treatment - suspected hazard by this route is minimal. Note to Physician: No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

**EYES:** If in eyes, hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eyes. Seek medical attention if irritation persists.

**SKIN:** Wash with soap and water. No further first aid should be required.

**INGESTION:** No specific treatment - suspected hazard by this route is minimal.

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### Section V - Fire Fighting Measures

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**GENERAL HAZARDS:** Product is minimally flammable  $FP \geq 101^{\circ}C$  ( $215^{\circ}F$ ). Chlorine may be released from this product in the presence of acids.

**EXTINGUISHING MEDIA:** Water fog, carbon dioxide and dry chemical to fight surrounding fire.

**FIRE FIGHTING PROCEDURES:** Wear SCBA when fighting fires involving this as a precaution.

**UNUSUAL FIRE AND EXPLOSION:** None.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon Monoxide, Carbon Dioxide, smoke, organic vapors from dried and heated towels in fore conditions.

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### Section VI - Accidental Release Measures

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**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Isolate damaged goods. Spills should be diluted with water, then absorbed with sand, clay, or earth. Dispose of saturated absorbent materials appropriately since spontaneous heating may occur.

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### Section VI - Handling and Storage

---

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:**

Isolate damaged goods. Spills should be diluted with water, then absorbed with sand, clay, or earth. Dispose of saturated absorbent materials appropriately since spontaneous heating may occur.

**VENTILATION:** Good general ventilation should be sufficient for most conditions.

**RESPIRATORY PROTECTION:** No respiratory protection should be needed.

**PROTECTIVE CLOTHING:** No precautions other than clean body covering clothing should be needed. Gloves are recommended.

**EYE PROTECTION:** Use safety glasses or equivalent protection to avoid eye contact.

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### Section VIII - Exposure Controls / Personal Protection

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HAZARDOUS COMPONENTS	NIOSH			ACGIH		OSHA		
	TWA ppm	TWA mg/m <sup>3</sup>	STEL ppm	STEL mg/m <sup>3</sup>	TLV/TWA ppm	TWA mg/m <sup>3</sup>	PEL ppm	PEL mg/m <sup>3</sup>
Sodium Hypochlorite				<b>10 IDLH</b>		<b>2</b>		<b>2</b>

**PERSONAL PROTECTION**

**RESPIRATORY PROTECTION:** A respiratory protection program that meets OSHA's 29 CFR 1910.134, ANSI Z88.2 requirements must be followed whenever workplace concentrations of this product in air exceed the published TLV's.

**PROTECTIVE GLOVES:** Impervious rubber, or nitrile gloves are advised if prolonged or repeated exposure is likely.

**EYE PROTECTION:** Use safety glasses with protective side shields to avoid eye contact.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Not required.

**WORK / HYGIENIC PRACTICES:** Wash with soap and water after contact.

**SAFETY DATA SHEET**

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 microdot® Bleach Wipe

**Section IX - Physical and Chemical Properties****APPEARANCE AND ODOR**

Clear, colorless solution with a mild bleach odor.

**pH**

10.0-12.0

**BOILING POINT / BOILING RANGE**

100°C (212°F)

**FLASH POINT**

> 1 01 QC (>215QF)

**FLAMMABLE LIMITS**

LEL: NE UEL: NE

**AUTOIGNITION TEMPERATURE**

NE

**VAPOR PRESSURE**

17.5mmHg at 20 °C

**SPECIFIC GRAVITY (WATER = 1)**

1.015@25QC.

**SOLUBILITY IN WATER**

Completely soluble (for liquid) .

**VISCOSITY**

NA

**VAPOR DENSITY (AIR = 1)**

NR

**EVAPORATION RATE (WATER = 1)**

NR

**Section IX - Stability and Reactivity****STABILITY**

The product is stable under normal use and storage conditions.

**CONDITIONS TO AVOID:**

Excessive heat and light exposure. Avoid contact with incompatible materials listed in the following section:

**INCOMPATIBILITY (MATERIALS TO AVOID):**

Avoid contact with acids, reducing agents, ammonia, or heavy metals such as nickel, cobalt, copper, and iron.

Reacts with other household chemicals such as toilet bowl cleaners, rust removers, vinegar, acids or ammonia containing products to produce hazardous gases, such as chlorine and other chlorinated species.

**HAZARDOUS DECOMPOSITION OR BYPRODUCTS:**

Chlorine in the presence of acids.

**HAZARDOUS POLYMERIZATION:**

Will not occur.

**CONDITIONS TO AVOID:**

None related to polymerization.

**Section XI - Toxicological Information****HAZARDOUS COMPONENTS****CAS #****LD50 of Ingredient  
(Specify Species and Route)****LC50 of Ingredient  
(Specify Species)**

Sodium hypochlorite

7681-52-9

Oral, mouse: LD50 = 5800 mg/kg

NE

In the case of medical emergency, contact your local poison control center.

**Section XII - Ecological Information**

No information is available for this blended product.

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## SAFETY DATA SHEET

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microdot® Bleach Wipe

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### Section XIII - Disposal Considerations

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#### WASTE DISPOSAL METHOD:

Isolate damaged goods. Spills should be diluted with water, then absorbed with sand, clay, or earth. Dispose of saturated absorbent materials appropriately since spontaneous heating may occur. Landfill in a permitted waste disposal facility in accordance with all local, state, and federal regulations.

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### Section XIV - Transport Information

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**PROPER SHIPPING NAME:** Not regulated

**IATA HAZARD CLASS / Pack Group:** Contact Manufacturer

**DOT HAZARD CLASS I Pack Group:** Not regulated

**IMDG HAZARD CLASS:** Contact Manufacturer

**REFERENCE:** 49CFR172, 49CFR173

**RID/ADR Dangerous Goods Code:** Contact Manufacturer

**UN / NA IDENTIFICATION NUMBER:** Not Regulated

**UN TDG Class I Pack Group:** Contact Manufacturer

**LABEL:** Not Regulated

**Hazard Identification Number (HIN):** Contact Manufacturer

**HAZARD SYMBOLS:** NONE

Refer to 49CFR172 and 49CFR173 for pertinent regulations

**Note:** Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EU, United Nations TOG, and WHMIS (Canada) TOG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

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### Section XV - Regulatory Information

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**TSCA (USA - Toxic Substance CONTROL ACT):**

Listed.

**SARA TITLE III (USA - Superfund Amendments and Reauthorization Act):**

Acute Health: Yes

Chronic Health:

No

Fire: No

Sudden Release of Pressure:

No

Reactive: No

**313 REPORTABLE INGREDIENTS:** None reportable.

**ERCLA (USA - Comprehensive Response Compensation and Liability Act) :**

CAS# 7681-52-9: 100 lb final RQ; 45.4 kg final RQ. CAS# 1310-73-2: 1000 lb final RQ; 454 kg final RQ.

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### Section XVI - Other Information

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**Legend: NA=Not Applicable**

**NE=Not established**

**NR=Not Reported**

#### HMIS HAZARD RATINGS

HEALTH:

2

FLAMMABILITY:

0

PHYSICAL HAZARD:

1

PERSONAL PROTECTIVE:

B

EQUIPMENT:

Glasses and gloves

0 = INSIGNIFICANT

1 = SLIGHT

2 = MODERATE

3 = HIGH

4 = EXTREME

#### NFPA HAZARD RATINGS

HEALTH:

0

FLAMMABILITY:

0

REACTIVITY:

1

SPECIAL HAZARDS:

OX

0 = NONE

1 = SLIGHT / LITTLE

2 = MODERATE

3 = HIGH / SERIOUS

4 = EXTREME

## SAFETY DATA SHEET

microdot® Minute Wipe

## Product and Company Identification

<b>Product identifier</b>	<b>NAIC 88494-1 (Wipe)</b>
<b>Other means of identification</b>	microdot® Minute Wipe
<b>Recommended use</b>	Disinfectant
<b>Recommended restrictions</b>	None known.
<b>Manufacturer/Importer/Supplier/Distributor information</b>	
<b>Manufacturer</b>	
<b>Company name</b>	Cambridge Sensors USA, LLC
<b>Address</b>	10051 Bode Road Plainfield, IL 60585 United States
<b>Telephone</b>	1.877.374.4062
<b>E-mail</b>	info@microdotcs.com
<b>Emergency phone number</b>	1.877.374.4062

## Section II - Hazards Identification

<b>Physical hazards</b>	Flammable liquids	Category 2
<b>Health hazards</b>	Acute toxicity, inhalation	Category 4
	Serious eye damage/eye irritation	Category 2A
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
<b>Environmental hazards</b>	Not classified.	
<b>OSHA defined hazards</b>	Not classified.	
<b>Label elements</b>		



<b>Signal word</b>	Danger
<b>Hazard statement</b>	Highly flammable liquid and vapor. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness.
<b>Precautionary statement</b>	
<b>Prevention</b>	Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/eye protection/face protection.
<b>Response</b>	In case of fire: Use appropriate media to extinguish. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor// if you feel unwell.
<b>Storage</b>	Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.
<b>Supplemental information</b>	Although the product as a whole is in solid format, the product does not meet the OSHA HCS definition of a flammable solid as per Appendix B to 1910.1200 - Physical Hazard Criteria, section B.7.1 and B. 7.2.  This is a registered EPA product. The product labeling is in compliance with EPA regulations and guidelines.

# Chapter 8

## SAFETY DATA SHEET

microdot® Minute Wipe

### Section III - Composition/Information on Ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Ethanol		64-17-5	60-80

**Composition comments** US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

### Section IV - First Aid Measures

<b>Inhalation</b>	If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.
<b>Skin contact</b>	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
<b>Eye contact</b>	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
<b>Ingestion</b>	Rinse mouth. Do not induce vomiting. Get medical attention if symptoms occur. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.
<b>Most important symptoms/effects, acute and delayed</b>	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Symptoms may be delayed.
<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Take off all contaminated clothing immediately. If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse. Keep away from sources of ignition. No smoking. Avoid contact with eyes and skin. Wear rubber gloves and safety glasses with side shields. Keep out of reach of children.

### Section V- Fire Fighting Measures

<b>Suitable extinguishing media</b>	Dry chemical, CO2, water spray or regular foam.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Firefighters should wear full protective clothing including self contained breathing apparatus.
<b>Fire-fighting equipment/instructions</b>	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	Solid containing flammable liquid

### Section VI- Accidental Release Measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Remove all possible sources of ignition in the surrounding area. Wear appropriate protective equipment and clothing during clean-up. Do not breathe vapor. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Pick up and discard towelette.
<b>Environmental precautions</b>	Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

## SAFETY DATA SHEET

microdot® Minute Wipe

## Section VII - Handling and Storage

<b>Precautions for safe handling</b>	Vapors may form explosive mixtures with air. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not smoke. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Avoid breathing vapor. Avoid contact with eyes, skin and clothing. Avoid prolonged exposure. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Wash thoroughly after handling. Keep container tightly closed. When using do not eat or drink.
<b>Conditions for safe storage, including any incompatibilities</b>	Store locked up. Keep away from heat, sparks and open flame. Avoid spark promoters. Eliminate sources of ignition. Store in a closed container away from incompatible materials. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children.

## Section VIII - Exposure Controls/Personal Protection

## Occupational exposure limits

## US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Ethanol (CAS 64-17-5)	PEL	1900 mg/m <sup>3</sup> 1000 ppm

## US. ACGIH Threshold Limit Values

Components	Type	Value
Ethanol (CAS 64-17-5)	STEL	1000 ppm

## US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Ethanol (CAS 64-17-5)	TWA	1900 mg/m <sup>3</sup> 1000 ppm

<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Appropriate engineering controls</b>	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection</b>	Wear safety glasses with side shields.
<b>Skin protection</b>	
<b>Hand protection</b>	Rubber gloves. Confirm with a reputable supplier first.
<b>Other</b>	Wear suitable protective clothing. Wear appropriate chemical resistant clothing. As required by employer code.
<b>Respiratory protection</b>	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
<b>Thermal hazards</b>	Not applicable.
<b>General hygiene considerations</b>	When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

# Chapter 8

## SAFETY DATA SHEET

microdot® Minute Wipe

### Section IX - Physical and Chemical Properties

<b>Appearance</b>	Clear Liquid saturated on wipe
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid saturated on wipe
<b>Color</b>	Colorless
<b>Odor</b>	Alcohol
<b>Odor threshold</b>	Not available.
<b>pH</b>	3.7 @ 77°F (liquid)
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	Not available.
<b>Pour point</b>	Not available.
<b>Specific gravity</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Flash point</b>	65.3 °F (18.5 °C) Tag Closed Cup (liquid)
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	3.23 cSt @ 68°F (liquid)
<b>Other information</b>	
<b>Density</b>	0.86 (liquid)

### Section X - Stability and Reactivity

<b>Reactivity</b>	This product may react with strong oxidizing agents.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Do not mix with other chemicals.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	May include and are not limited to: Oxides of carbon.

## SAFETY DATA SHEET

microdot® Minute Wipe

## Section XI - Toxicological Information

## Information on likely routes of exposure

<b>Ingestion</b>	Expected to be a low ingestion hazard.
<b>Inhalation</b>	Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Harmful if inhaled. Prolonged inhalation may be harmful.
<b>Skin contact</b>	No adverse effects due to skin contact are expected. Non-irritating based on test data.
<b>Eye contact</b>	Causes serious eye irritation.

**Symptoms related to the physical, chemical and toxicological characteristics** Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

## Information on toxicological effects

**Acute toxicity** Harmful if inhaled. Narcotic effects. May cause respiratory irritation.

Product	Species	Test Results
NAIC 88494-1 (Wipe) (CAS Mixture)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rat	> 5000 mg/kg, Tested
<i>Inhalation</i>		
LC50	Rat	> 2.1 mg/l, Tested
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg, Tested
<b>Components</b>	<b>Species</b>	<b>Test Results</b>
Ethanol (CAS 64-17-5)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 15800 mg/kg
<i>Inhalation</i>		
LC50	Mouse	39 mg/l, 4 Hours
	Rat	31623 ppm, 4 Hours
		20000 ppm, 10 Hours
<i>Oral</i>		
LD50	Dog	5500 mg/kg
	Guinea pig	5600 mg/kg
	Mouse	3450 mg/kg
	Rat	7060 mg/kg

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

<b>Exposure minutes</b>	Not available.
<b>Erythema value</b>	Not available.
<b>Oedema value</b>	Not available.

**Serious eye damage/eye irritation** Causes serious eye irritation.

<b>Corneal opacity value</b>	Not available.
<b>Iris lesion value</b>	Not available.
<b>Conjunctival reddening value</b>	Not available.
<b>Conjunctival oedema value</b>	Not available.
<b>Recover days</b>	Not available.

## Respiratory or skin sensitization

<b>Respiratory sensitization</b>	Not available.
<b>Skin sensitization</b>	This product is not expected to cause skin sensitization.

**Germ cell mutagenicity** Non-hazardous by OSHA criteria.

**Carcinogenicity** Non-hazardous by OSHA criteria.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**  
Not listed.

**Reproductive toxicity** Non-hazardous by OSHA criteria.

**Specific target organ toxicity - single exposure** Respiratory tract irritation. Narcotic effects.

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** Not available.

**Chronic effects** Prolonged inhalation may be harmful.

**Further information** Not available.

# Chapter 8

## SAFETY DATA SHEET

microdot® Minute Wipe

### Section XII - Ecological Information

<b>Ecotoxicity</b>	See below		
<b>Components</b>		<b>Species</b>	<b>Test Results</b>
Ethanol (CAS 64-17-5)			
Crustacea	EC50	Daphnia	11744.5 mg/L, 48 Hours
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Daphnia magna)	7.7 - 11.2 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	> 100 mg/l, 96 hours
<b>Persistence and degradability</b>	No data is available on the degradability of this product.		
<b>Bioaccumulative potential</b>	No data available.		
<b>Partition coefficient n-octanol / water (log Kow)</b>			
Ethanol		-0.31	
<b>Mobility in soil</b>	No data available.		
<b>Mobility in general</b>	Not available.		
<b>Other adverse effects</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		

### Section XIII - Disposal Considerations

<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations.
<b>Hazardous waste code</b>	D001: Waste Flammable material with a flash point <140 F The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

### Section XIV - Transport Information

#### U.S. Department of Transportation (DOT)

##### Basic shipping requirements:

<b>UN number</b>	UN1992
<b>Proper shipping name</b>	Flammable liquids, toxic, n.o.s. (Ethanol)
<b>Hazard class</b>	Limited Quantity - US
<b>Packing group</b>	II
<b>Special provisions</b>	IB2, T7, TP2, TP13
<b>Packaging exceptions</b>	<0.3 Gal-Consumer Commodity ORM-D/Limited Quantity
<b>Packaging non bulk</b>	202
<b>Packaging bulk</b>	243

DOT



## SAFETY DATA SHEET

microdot® Minute Wipe

## Section XII - Regulatory Information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories** Immediate Hazard - Yes  
Delayed Hazard - No  
Fire Hazard - Yes  
Pressure Hazard - No  
Reactivity Hazard - No

**SARA 302 Extremely hazardous substance** No

**SARA 311/312 Hazardous chemical** No

**SARA 313 (TRI reporting)**  
Not regulated.

**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

**Food and Drug Administration (FDA)** Not regulated.

**US state regulations** Ethanol is not considered to be a Prop 65 component for this product. The product is not an alcoholic beverage for consumption.

**US - California Hazardous Substances (Director's): Listed substance**

Ethanol (CAS 64-17-5) Listed.

**US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance**

Ethanol (CAS 64-17-5) Listed.

**US - Illinois Chemical Safety Act: Listed substance**

Ethanol (CAS 64-17-5) Listed.

**US - Louisiana Spill Reporting: Listed substance**

Ethanol (CAS 64-17-5) Listed.

**US - Minnesota Haz Subs: Listed substance**

Ethanol (CAS 64-17-5) Listed.

**US - New Jersey RTK - Substances: Listed substance**

Ethanol (CAS 64-17-5) Listed.

**US - Texas Effects Screening Levels: Listed substance**

Ethanol (CAS 64-17-5) Listed.

**US. Massachusetts RTK - Substance List**

Ethanol (CAS 64-17-5) Listed.

**US. Pennsylvania RTK - Hazardous Substances**

Ethanol (CAS 64-17-5) Listed.

**US. Rhode Island RTK**

Not regulated.

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

# Chapter 8

## SAFETY DATA SHEET

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microdot® Minute Wipe

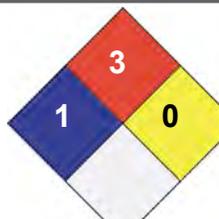
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### Section XII - Other Information

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LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	* 1
FLAMMABILITY	3
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X



**Disclaimer**

The information in the sheet was written based on the best knowledge and experience currently available. Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

**Issue date**

30-June-2015

**Further information**

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

**Other information**

This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

**Prepared by**

Cambridge Sensors USA, LLC Phone: 1.877.374.4062

# TROUBLESHOOTING THE *microdot*<sup>®</sup> Xtra METER

 <p>Hi 8:08 8-8</p>	<p>The blood glucose level is higher than 525 mg/dL.</p>	<p>This message indicates very high blood sugar. You should recheck the blood glucose level. If “Hi” again, follow facility protocol.</p>
 <p>Lo 8:08 8-8</p>	<p>The blood glucose level is lower than 20 mg/dL.</p>	<p>This message indicates very low blood sugar. You should recheck the blood glucose level. If “Lo” again, follow facility protocol.</p>
 <p>E-1 10 7</p>	<p>Error message that indicates that there is a problem with the meter, e.g., measurement error (time out, overflow, offset) or temperature out of range.</p>	<p>Review the instructions and try again with a new test strip. If the problem persists, contact Customer Service.</p>
 <p>E-2 20 1</p>	<p>Error message that indicates that there may be a problem with the test strip, e.g, the test strip may be damaged, moved, or removed during testing, or inserted improperly.</p>	<p>Check the test strip for damage and retest as necessary. Repeat the test. If the error message appears again, contact Customer Service.</p>
 <p>E-3 3 1 1</p>	<p>Error message could be caused by a used or damaged test strip.</p>	<p>Repeat the test with a new strip. If the error message appears again, contact Customer Service.</p>
 <p>E-5 50 3</p>	<p>Error message indicates serial communications error.</p>	<p>If error persists, contact Customer Service.</p>
	<p>The battery sign appears on the display with the unit of measurement. The power of the battery is getting low. You can complete about 50 more tests from the time this symbol first appears.</p>	<p>Test results will be accurate but replace the battery as soon as possible. Battery type is CR2032 3 volt.</p>

# *microdot*<sup>®</sup> Xtra

## Cleaning & Disinfecting the microdot<sup>®</sup> Xtra Meter

Prior to cleaning & disinfecting remove the orange, protective microdot<sup>®</sup> Meter Sleeve. Cambridge Sensors USA, LLC recommends cleaning & disinfecting the microdot<sup>®</sup> Xtra Meter using an EPA Registered 1:10 dilution of .525% - .615% sodium hypochlorite, or an EPA-registered tuberculocidal disinfectant wipe.

The recommendation is in accordance with C.D.C. Guidelines for Disinfection and Sterilization.

**Cambridge Sensors USA, LLC offers two ready to use products to meet cleaning & disinfection requirements. The ready to use microdot<sup>®</sup> Bleach Wipe and microdot<sup>®</sup> Minute Wipe. The microdot<sup>®</sup> Bleach Wipe is premoistened with a 1:10 dilution. The microdot<sup>®</sup> Minute Wipe is an EPA-registered tuberculocidal.**

For easy cleaning & disinfecting Cambridge Sensors USA, LLC offers the microdot<sup>®</sup> Disinfection System which includes the user friendly microdot<sup>®</sup> Meter Case & Timer to insure proper dwell time.

**Note:** Over exposure (contact time) may damage meter. When cleaning & disinfecting the microdot<sup>®</sup> Xtra Meter take extreme care not to get liquid in the test strip dock or key code parts.

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### Cambridge Sensors USA, LLC

Customer Service available from from 8am - 5pm CST Monday - Friday

Toll free 1.877.374.4062 | [www.microdotcs.com](http://www.microdotcs.com)

# Non-Bleach Wipe Protocol to Disinfect your microdot<sup>®</sup> Xtra Glucometer

## Proper Guidelines for Disinfection of microdot<sup>®</sup> Xtra Glucometer with Disinfection Case and Timer

Read the microdot<sup>®</sup> Minute Wipe (EPA Reg No. 88494-2-88459) label and follow directions for use. Wipe is for the exterior surfaces of blood glucose meters and is not for the use on the needle or the monitor.

- Always use personal protective equipment as specified on the microdot<sup>®</sup> Minute Wipe label.
- Thoroughly clean gross filth and heavy soil from surface of microdot<sup>®</sup> Xtra Glucometer to be disinfected.



1. Remove a pre-saturated 6" x 6.75" microdot<sup>®</sup> Minute Wipe.
2. Thoroughly wipe the microdot<sup>®</sup> Xtra Glucometer surface to be disinfected.
3. Wrap the Glucometer with the microdot<sup>®</sup> Minute Wipe.



4. Place the wrapped microdot<sup>®</sup> Xtra Glucometer face down inside the microdot<sup>®</sup> Disinfection Case.



5. Close disinfection case lid and activate 1 minute timer.
6. Allow the microdot<sup>®</sup> Xtra Glucometer to remain in contact with the microdot<sup>®</sup> Minute Wipe for 1 minute.

7. Dispose of wipe in trash after use. Do not flush wipe in the toilet.
9. Dispose of the non-refillable empty canister according to state and local authorities guidelines as allowed by the microdot<sup>®</sup> Minute Wipe label.

**NOTE:** Over exposure (contact time) may damage microdot<sup>®</sup> Xtra Glucometer.

# Bleach Wipe Protocol to Disinfect your microdot® Xtra Glucometer

### Proper Guidelines for Disinfection of microdot® Xtra Glucometer with disinfection case and timer

Read the microdot® Bleach Wipe (EPA Reg. No. 37549-1-88459) label and follow directions for use. microdot® Bleach Wipe is for the exterior surfaces of blood glucose meters and is not for the use on the needle or the monitor.

- Always use personal protective equipment as specified on the microdot® Bleach Wipe label.
- Thoroughly clean gross filth and heavy soil from surface of microdot® Xtra Glucometer to be disinfected.

1. Open microdot® Bleach Wipe pop-up canister. The wipes are pre-saturated with a sodium hypochlorite (bleach) hospital-use solution.



2. Remove a pre-saturated 6" x 6" wipe.

3. Thoroughly wipe the microdot® Xtra Glucometer surface to be disinfected.

4. Wrap the Glucometer with the microdot® Bleach Wipe.



5. Place the wrapped microdot® Xtra Glucometer face down inside the microdot® Disinfection Case.



6. Close disinfection case lid and activate 3 minute timer.

7. Allow the microdot® Xtra Glucometer to remain in contact with the bleach wipe for 3 minutes.

8. Dispose of wipe in trash after use. Do not flush wipe in the toilet.

9. Dispose of the non-refillable empty canister according to state and local authorities guidelines as allowed by the microdot® Bleach Wipe label.

**NOTE: Over exposure (contact time) may damage microdot® Xtra Glucometer.**



CS<sup>®</sup>

CAMBRIDGE SENSORS USA, LLC

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