

FAST. ACCURATE. EASY TO USE.

microdot[®]

Blood Glucose Monitoring System

OPERATIONS & QUALITY ASSURANCE
PROCEDURE MANUAL



For
Healthcare
Professionals

CS[®]
CAMBRIDGE SENSORS USA, LLC

TABLE OF CONTENTS

Chapter	Page
1. microdot® Meter Overview & System Components	2 - 4
2. Initial Setup of the microdot® Meter	5 - 7
3. Control Solution Testing	8 - 10
4. Testing with Patients	11 - 12
5. microdot® Meter Specifications	13
6. In-Service Training Outcomes	14
7. microdot® Blood Glucose Meter Log Sheets	15
7A. microdot® BGMS In-Service Form	16
7B. microdot® BGMS Qualified Trainers Form	17
7C. microdot® BGMS Qualified Trainer/Operator Certification Form	18
7D. microdot® BGMS Quality Control Record	19
8. Safety Data Sheets	
8A. microdot® Test Strips	20
8B. microdot® Control Solutions	21 - 24
8C. microdot® Bleach Wipe	25 - 28
8D. microdot® Minute Wipe	29 - 36
9. Troubleshooting the microdot® Meter	37
10. Manufacturer Cleaning & Disinfecting Instructions	38 - 40

microdot[®] BLOOD GLUCOSE METER OVERVIEW

This section provides general information on the microdot[®] Blood Glucose Monitoring System

The microdot[®] 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[®] Blood Glucose Meter
2. microdot[®] Test Strips
3. microdot[®] 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[®] Test Strips and Control Solutions with the microdot[®] Glucose Meter.

Your system includes:

- microdot[®] Meter
- Quick Reference Guide
- Quality Assurance Manual
- Lifetime Warranty
- 3V Lithium Battery (installed)

Additional components include:

- microdot[®] Test Strips
- microdot[®] High and Low Control Solutions

SYSTEM COMPONENTS

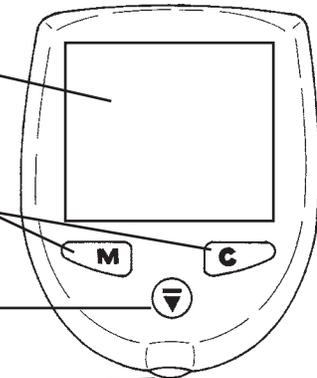
microdot[®] Blood Glucose Meter

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.

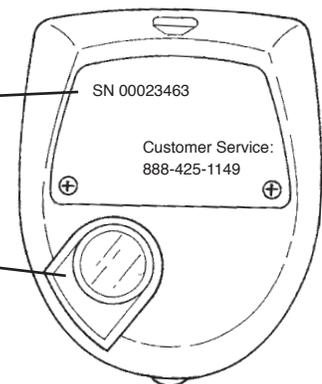
Eject Button: Releases test strip.

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*[®] Glucose Meter. (877) 374-4062

SYSTEM COMPONENTS

microdot[®] Test Strip

The *microdot*[®] Blood Glucose Test Strip offers the latest advances in biosensor, auto-code technology. Blood is applied to the top edge of the *microdot*[®] Test Strip and is automatically drawn into the white channel where the reaction takes place.

The *microdot*[®] Test Strip consists of the following parts:

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



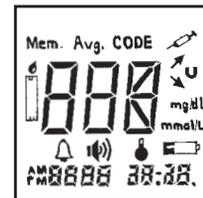
INITIAL SETUP OF THE *microdot*® METER

Before using the microdot® 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.

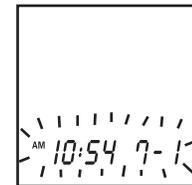


Step 1

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.

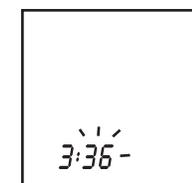


Step 3

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.

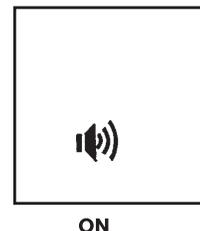


Repeat Steps 1 & 2 to set Month and Year.

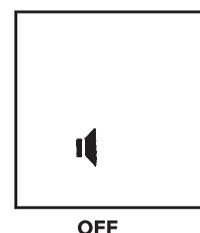
INITIAL SETUP OF THE *microdot*[®] METER

Setting the Beeper

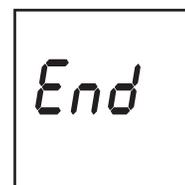
After setting the Time and Date, the Sound Symbol will appear and can now be changed by pressing the C button. To accept the setting, press the M button.



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*® METER

Using Meter Memory

Your microdot® 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.

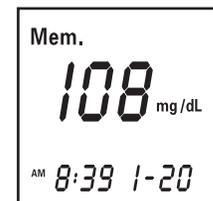
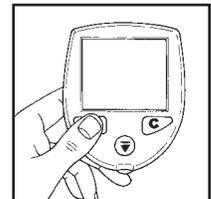
Step 1

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.

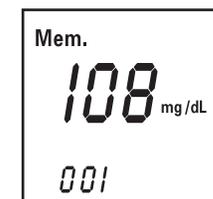
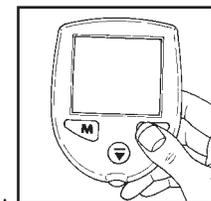


Step 2

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® Meter and microdot® 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® Glucose Systems.

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.

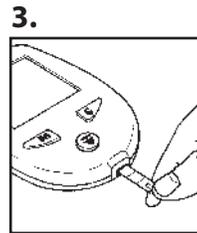
CONTROL SOLUTION TESTING

Notes:

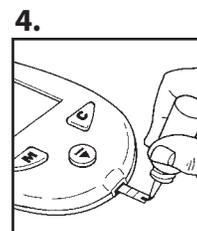
The control solution test is similar to a blood test except that you use microdot® Control Solution instead of a drop of blood. The control solution ranges printed on the test strip vial are for microdot® Control Solutions only. It is used to check the meter and test strip performance. It is NOT a recommended 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 microdot® Low Control Solution bottle well before using.
2. Remove cap and discard the first drop of control solution, wipe off the dispenser tip to ensure a good sample and an accurate result.
3. Insert a test strip into the microdot® Meter. Be sure the black contact bars go into the meter. Push the strip in firmly. Be sure it can go no further.



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.



CONTROL SOLUTION TESTING

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 microdot® 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.

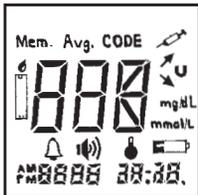
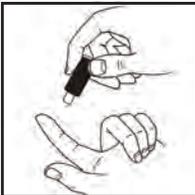
TESTING WITH PATIENTS

This section describes the procedure to test patient blood samples using the microdot® 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.

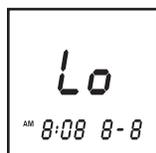
Patient Test Procedure:

	What You Do	Notes
	<p>1. Press the C button 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 Cambridge Sensors USA at (877) 374-4062</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>

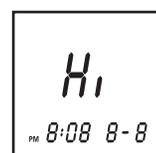
TESTING WITH PATIENTS

	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 M button 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® 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[®] METER SPECIFICATIONS

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

IN-SERVICE TRAINING OUTCOMES

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

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

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

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

7. Perform control solution tests

8. Document and maintain microdot® 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[®] **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[®] BLOOD GLUCOSE MONITORING SYSTEM QUALIFIED TRAINER/OPERATOR CERTIFICATION FORM

I. microdot[®] 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[®] 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® Blood Glucose Test Strips

Section I - Identification

Trade Name:	microdot® Blood Glucose Test Strips
Common Name:	Blood glucose test strips for use with microdot® Blood Glucose Test System
Supplier:	Cambridge Sensors USA 10051 Bode Rd. Plainfield, IL 60585
Emergency Phone Number:	(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.

SDS 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 SDSs 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 SDSs for non-hazardous chemicals. Consequently, an employer is free to discard SDSs for non-hazardous chemicals.

SAFETY DATA SHEET

microdot® Control Solutions

Section I - Identification

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

Section II - Composition / Information on Ingredients

Chemical Family:	Salt solution
Chemical Name:	N/A

Section III - Hazards Identification

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

Section IV - First Aid Measures

Eye Contact:	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.
Skin Contact:	If contact with this product leads to reddening, inflammation or irritation, flush the exposed area with running water. If irritation persists, get medical attention.
Ingestion:	As a precaution, get medical attention if there has been ingestion of this product.
Inhalation:	If breathing becomes difficult, remove victim to fresh air and get medical attention.
Chronic Exposure:	N/A

Chapter 8

SAFETY DATA SHEET

microdot® Control Solutions

Section V - Fire Fighting Measures

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

Section VI - Accidental Release Measures

Spill and Leak Procedures	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.
----------------------------------	---

Section VII - Handling and Storage

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

Section VIII - Exposure Controls / Personal Protection

Respiratory Protection	Not required under normal use of this product.
Ventilation	Not required under normal use of this product.
Protective Gloves	Wear appropriate gloves to prevent skin contact. Replace torn or punctured gloves promptly.
Other Protective Equipment	Wear appropriate eye protection to prevent eye contact. Wear appropriate body protection to prevent skin contact.
Other Engineering Controls	Eye wash stations and deluge showers.
Work Practices	Good laboratory technique should be used when handling this product. Observe appropriate chemical hygiene. Do not place in mouth.
Hygienic Practices	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

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

Section X - Toxicological Information

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

Section XI - Ecological Information

Potential Effect on Environment	Not known
Potential to Bioaccumulate	Not known
Mobility	Not known
Ecotoxicity	Not known
Persistence and Degradability	Not known
Aqua Toxicity	Not known

Section XII - Disposal Considerations

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

Chapter 8

SAFETY DATA SHEET

microdot® Control Solutions

Section XII - Transport Information (See also Section IX)

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

Section XIV - Regulatory Information

EEC Hazard Classification	Not known
Risk Phrases	Not known
Safety Phrases	Not known

Section XV - Other Information

Directives 88/379/EEC and 91/155/EEC have been considered when compiling this SDS; 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: MEDLINE, INC.
MANUFACTURED FOR: CAMBRIDGE SENSORS USA, LLC
DATE PREPARED: September 25, 2012

ADDRESS: ONE MEDLINE PLACE MUNDELEIN, IL 60060
ADDRESS: 10051 BODE RD. PLAINFIELD, IL 60585
TELEPHONE NUMBER FOR INFORMATION / CUSTOMER SERVICE: 800- 633-5463
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

Chapter 8

SAFETY DATA SHEET

microdot® Bleach Wipe

Section IV - First Aid Measures

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.

Section V - Fire Fighting Measures

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.

Section VI - Accidental Release Measures

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.

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.

Section VIII - Exposure Controls / Personal Protection

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

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

.....
 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.

Chapter 8

SAFETY DATA SHEET

microdot® Bleach Wipe

Section XIII - Disposal Considerations

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.

Section XIV - Transport Information

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.

Section XV - Regulatory Information

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.

Section XVI - Other Information

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

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

Section II - Hazards Identification

Physical hazards	Flammable liquids	Category 2
Health hazards	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
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		



Signal word	Danger
Hazard statement	Highly flammable liquid and vapor. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness.
Precautionary statement	
Prevention	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.
Response	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.
Storage	Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	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

Inhalation	If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.
Skin contact	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
Eye contact	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.
Ingestion	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.
Most important symptoms/effects, acute and delayed	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Symptoms may be delayed.
General information	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

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

Section VI- Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	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.
Methods and materials for containment and cleaning up	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.
Environmental precautions	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

Precautions for safe handling	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.
Conditions for safe storage, including any incompatibilities	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 ³ 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 ³ 1000 ppm

Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	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.
Individual protection measures, such as personal protective equipment	
Eye/face protection	Wear safety glasses with side shields.
Skin protection	
Hand protection	Rubber gloves. Confirm with a reputable supplier first.
Other	Wear suitable protective clothing. Wear appropriate chemical resistant clothing. As required by employer code.
Respiratory protection	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
Thermal hazards	Not applicable.
General hygiene considerations	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

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

Section X - Stability and Reactivity

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

Ingestion	Expected to be a low ingestion hazard.
Inhalation	Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Harmful if inhaled. Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected. Non-irritating based on test data.
Eye contact	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)		
Acute		
<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
Components	Species	Test Results
Ethanol (CAS 64-17-5)		
Acute		
<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.

Exposure minutes	Not available.
Erythema value	Not available.
Oedema value	Not available.

Serious eye damage/eye irritation Causes serious eye irritation.

Corneal opacity value	Not available.
Iris lesion value	Not available.
Conjunctival reddening value	Not available.
Conjunctival oedema value	Not available.
Recover days	Not available.

Respiratory or skin sensitization

Respiratory sensitization	Not available.
Skin sensitization	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

Ecotoxicity	See below		
Components		Species	Test Results
Ethanol (CAS 64-17-5)			
Crustacea	EC50	Daphnia	11744.5 mg/L, 48 Hours
Aquatic			
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
Persistence and degradability	No data is available on the degradability of this product.		
Bioaccumulative potential	No data available.		
Partition coefficient n-octanol / water (log Kow)			
Ethanol		-0.31	
Mobility in soil	No data available.		
Mobility in general	Not available.		
Other adverse effects	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

Disposal instructions	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.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	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.
Waste from residues / unused products	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).
Contaminated packaging	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:

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

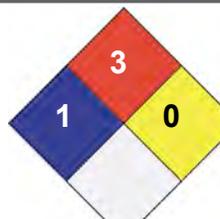
SAFETY DATA SHEET

microdot® Minute Wipe

Section XII - Other Information

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*® METER

	<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>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>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>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>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>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 Lithium 3 volt.</p>

microdot[®]

Cleaning & Disinfecting the microdot[®] Meter

Cambridge Sensors USA, LLC recommends cleaning & disinfecting the microdot[®] Meter using an EPA Registered 1:10 dilution of .525% - .650% 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[®] Bleach Wipe and microdot[®] Minute Wipe. The microdot[®] Bleach Wipe is premoistened with a 1:10 dilution. The microdot[®] Minute Wipe is an EPA-registered tuberculocidal.

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

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

Cambridge Sensors USA, LLC

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

Toll free 1.877.374.4062 | www.microdotcs.com

Non-Bleach Wipe Protocol to Disinfect your microdot® Glucometer

Proper Guidelines for Disinfection of microdot® Glucometer with Disinfection Case and Timer

Read the microdot® 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® Minute Wipe label.
- Thoroughly clean gross filth and heavy soil from surface of microdot® Glucometer to be disinfected.



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



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



5. Close Disinfection Case lid and activate 1 minute timer.
6. Allow the microdot® Glucometer to remain in contact with the microdot® 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® Minute Wipe label.

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

Bleach Wipe Protocol to Disinfect your microdot® Glucometer

Proper Guidelines for Disinfection of microdot® 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® 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® Glucometer surface to be disinfected.

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



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



6. Close Disinfection Case lid and activate 3 minute timer.

7. Allow the microdot® 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® Glucometer.



CAMBRIDGE SENSORS USA, LLC

CAMBRIDGE SENSORS USA, LLC
10051 Bode Rd. Plainfield, IL 60585

Customer Service:
toll free: 877.374.4062 Monday-Friday 8am-5pm CST

www.microdotcs.com