



## Material Safety Data Sheet

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### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** 3M(TM) Attest(TM) Biological Indicator Test Packs 1296 & 1296F

**MANUFACTURER:** 3M

**DIVISION:** Medical Division

**ADDRESS:** 3M Center  
St. Paul, MN 55144-1000

**EMERGENCY PHONE:** 1-800-364-3577 or (651) 737-6501 (24 hours)

**Issue Date:** 12/17/2007

**Supersedes Date:** 12/06/2004

**Document Group:** 19-6667-0

**Product Use:**

Intended Use: To indicate conditions for sterilization.

### SECTION 2: INGREDIENTS

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>% by Wt</u>
Record keeping card	None	1 - 3
Attest Biological Indicator	Mixture	< 1
Label with Ink	None	< 0.5
Paper	Unknown	> 97

### SECTION 3: HAZARDS IDENTIFICATION

#### 3.1 EMERGENCY OVERVIEW

**Odor, Color, Grade:** Biological indicator, with test strip and media, surrounded by a stack of index cards, all wrapped in paper.

**General Physical Form:** Liquid

**Immediate health, physical, and environmental hazards:**

#### 3.2 POTENTIAL HEALTH EFFECTS

**Eye Contact:**

No health effects are expected.

**Skin Contact:**

No health effects are expected.

**Inhalation:**

No health effects are expected.

**Ingestion:**

No health effects are expected.

**Carcinogenicity:**

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>Class Description</u>	<u>Regulation</u>
BENZIDINE DYES	NONE	Group 2A	International Agency for Research on Cancer
BENZIDINE DYES	NONE	Known human carcinogen	National Toxicology Program Carcinogens
DICHLOROBENZIDINE SALTS	NONE	Cancer hazard	OSHA Carcinogens
DICHLOROBENZIDINES	NONE	Cancer hazard	OSHA Carcinogens
LEAD COMPOUNDS	NONE	Anticipated human carcinogen	National Toxicology Program Carcinogens
LEAD, INORGANIC COMPOUNDS	NONE	Group 2B	International Agency for Research on Cancer
SILICA, CRYSTALLINE (AIRBORNE PARTICLES OF RESPIRABLE SIZE)	NONE	Group 1	International Agency for Research on Cancer
SILICA, CRYSTALLINE (AIRBORNE PARTICLES OF RESPIRABLE SIZE)	NONE	Known human carcinogen	National Toxicology Program Carcinogens

**SECTION 4: FIRST AID MEASURES**

**4.1 FIRST AID PROCEDURES**

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

**Eye Contact:** No need for first aid is anticipated.

**Skin Contact:** No need for first aid is anticipated.

**Inhalation:** No need for first aid is anticipated.

**If Swallowed:** No need for first aid is anticipated.

**SECTION 5: FIRE FIGHTING MEASURES**

**5.1 FLAMMABLE PROPERTIES**

<b>Autoignition temperature</b>	<i>Not Applicable</i>
<b>Flash Point</b>	<i>Not Applicable</i>
<b>Flammable Limits - LEL</b>	<i>Not Applicable</i>
<b>Flammable Limits - UEL</b>	<i>Not Applicable</i>

**5.2 EXTINGUISHING MEDIA**

Ordinary combustible material. Use fire extinguishers with class A extinguishing agents (e.g., water, foam).

### 5.3 PROTECTION OF FIRE FIGHTERS

**Special Fire Fighting Procedures:** Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

**Unusual Fire and Explosion Hazards:** Not applicable.

**Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.**

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Accidental Release Measures:** Collect as much of the spilled material as possible. Clean up residue with detergent and water. Collect the resulting residue containing solution. Place in a closed container approved for transportation by appropriate authorities. Seal the container. Dispose of collected material as soon as possible.

**In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.**

## SECTION 7: HANDLING AND STORAGE

### 7.1 HANDLING

For industrial or professional use only.

### 7.2 STORAGE

Store away from areas where product may come into contact with food or pharmaceuticals. Store between 15-30 degree C.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 ENGINEERING CONTROLS

Not applicable.

### 8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

#### 8.2.1 Eye/Face Protection

Avoid eye contact.

3M recommends the use of safety glasses when removing test packs from the sterilizer and when crushing biological indicators.

#### 8.2.2 Skin Protection

Gloves not normally required.

Warning: Crushing or excessive handling of the biological indicators before cooling may cause the glass ampule to burst which may result in personal injury from flying debris. Use crusher to activate unit. 3M recommends the use of gloves when removing test packs from the sterilizer.

#### 8.2.3 Respiratory Protection

Not applicable.

#### 8.2.4 Prevention of Swallowing

Do not ingest.

### 8.3 EXPOSURE GUIDELINES

<u>Ingredient</u>	<u>Authority</u>	<u>Type</u>	<u>Limit</u>	<u>Additional Information</u>
ALUMINUM, SOLUBLE SALTS	ACGIH	TWA, as Al	2 mg/m3	
ALUMINUM, SOLUBLE SALTS	OSHA	TWA, as Al	2 mg/m3	Table Z-1A
LEAD, INORGANIC COMPOUNDS	ACGIH	TWA, as Pb	0.05 mg/m3	Table A3
LEAD, INORGANIC COMPOUNDS	OSHA	TWA, as Pb	0.05 mg/m3	Standard Appendix
LEAD, ORGANIC COMPOUNDS	ACGIH	TWA, as Pb	0.05 mg/m3	Table A3

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Odor, Color, Grade:</b>	Biological indicator, with test strip and media, surrounded by a stack of index cards, all wrapped in paper.
<b>General Physical Form:</b>	Liquid
<b>Autoignition temperature</b>	<i>Not Applicable</i>
<b>Flash Point</b>	<i>Not Applicable</i>
<b>Flammable Limits - LEL</b>	<i>Not Applicable</i>
<b>Flammable Limits - UEL</b>	<i>Not Applicable</i>
<b>Boiling point</b>	<i>Not Applicable</i>
<b>Density</b>	<i>Not Applicable</i>
<b>Vapor Density</b>	<i>Not Applicable</i>
<b>Vapor Pressure</b>	<i>Not Applicable</i>
<b>Specific Gravity</b>	Approximately 1 [ <i>Details: (applies to media)</i> ]
<b>pH</b>	<i>Not Applicable</i>
<b>Melting point</b>	<i>Not Applicable</i>
<b>Solubility in Water</b>	Nil

## SECTION 10: STABILITY AND REACTIVITY

**Stability:** Stable.

**Materials and Conditions to Avoid:** None known

**Hazardous Polymerization:** Hazardous polymerization will not occur.

### Hazardous Decomposition or By-Products

<u>Substance</u>	<u>Condition</u>
Carbon monoxide	Not Specified
Carbon dioxide	Not Specified

## SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

## SECTION 12: ECOLOGICAL INFORMATION

### ECOTOXICOLOGICAL INFORMATION

Not determined.

### CHEMICAL FATE INFORMATION

Not determined.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Reclaim if feasible. Incinerate in an industrial or commercial facility in the presence of a combustible material. As a disposal alternative, dispose of waste product in a facility permitted to accept chemical waste. Product as sold is not considered hazardous waste. Dispose of unused product in a facility permitted to accept chemical waste. As a disposal alternative, incinerate in an industrial or commercial facility. Used product is considered biological waste and should be disposed of as biohazardous waste according to local, federal, and state regulations

The separated Label card containing the ink from the test pack, is expected to be subjected to RCRA hazardous waste due increased lead (D008) concentration. If the label card is separated from the test pack, dispose of this portion of the waste (pre- and/or post-sterilization) in a permitted hazardous waste facility.

Since regulations vary, consult applicable regulations or authorities before disposal.

## SECTION 14: TRANSPORT INFORMATION

### ID Number(s):

70-2006-9086-8, 70-2006-9087-6

Please contact the emergency numbers listed on the first page of the MSDS for Transportation Information for this material.

## SECTION 15: REGULATORY INFORMATION

### US FEDERAL REGULATIONS

Contact 3M for more information.

### 311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - No Delayed Hazard - No

**STATE REGULATIONS**

Contact 3M for more information.

**CALIFORNIA PROPOSITION 65**

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>Classification</u>
BENZIDINE DYES	NONE	**Carcinogen
LEAD COMPOUNDS	NONE	*Female reproductive toxin
LEAD COMPOUNDS	NONE	*Male reproductive toxin
LEAD COMPOUNDS	NONE	**Carcinogen
LEAD COMPOUNDS	NONE	*Developmental Toxin
SILICA, CRYSTALLINE (AIRBORNE PARTICLES OF RESPIRABLE SIZE)	NONE	**Carcinogen

- \* WARNING: contains a chemical or chemicals which can cause birth defects or other reproductive harm.
- \*\* WARNING: contains a chemical which can cause cancer.

**CHEMICAL INVENTORIES**

This material contains one or more substances not listed on the TSCA Inventory. Commercial use of this material is regulated by the FDA.

Contact 3M for more information.

**INTERNATIONAL REGULATIONS**

Contact 3M for more information.

**This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.**

**SECTION 16: OTHER INFORMATION**

**NFPA Hazard Classification**

**Health: 0 Flammability: 1 Reactivity: 0 Special Hazards: None**

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

**Revision Changes:**

- Section 1: Product use information was modified.
- Copyright was modified.
- Section 13: Waste disposal method comment was modified.

Section 1: Initial issue message was modified.  
Section 15: California proposition 65 reproductive harm warning was added.  
Section 14: ID Number Heading Template 1 was added.  
Section 14: ID Number(s) Template 1 was added.  
Section 2: Ingredient table was added.  
Section 8: Exposure guidelines ingredient information was added.  
Section 3: Carcinogenicity table was added.  
Section 3: Carcinogenicity heading was added.  
Section 15: California proposition 65 ingredient information was added.  
Section 15: California proposition 65 heading was added.  
Section 15: California proposition 65 cancer warning was added.

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