

# **Material Safety Data Sheet**

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This material safety data sheet (MSDS) is provided as a courtesy in response to a customer request. This product is not regulated under, and a MSDS is not required for this product by the OSHA Hazard Communication Standard (29 CFR 1910.1200) because, when used as recommended or under ordinary conditions, it should not present a health and safety hazard. However, use or processing of the product not in accordance with the product's recommendations or not under ordinary conditions may affect the performance of the product and may present potential health and safety hazards.

# **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** MonitorMark<sup>TM</sup> 9860H, 9864B

**MANUFACTURER:** 3M

**DIVISION:** Food Safety Department

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

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

**Issue Date:** 06/22/11 **Supercedes Date:** 05/29/09

**Document Group:** 21-6755-9

**Product Use:** 

Intended Use: Provide a visual history of time/temperature exposure.

# **SECTION 2: INGREDIENTS**

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>% by Wt</u>	
Non-Chemical Assembly Components	Unknown	88 - 98	
Adhesive	Trade Secret	0.1 - 1	
Blue dye	Unknown	0.1 - 1	
Fatty Acid Ester	Unknown	0.1 - 1	

# **SECTION 3: HAZARDS IDENTIFICATION**

### 3.1 EMERGENCY OVERVIEW

Odor, Color, Grade: paper laminate with indicator dye

General Physical Form: Solid

Immediate health, physical, and environmental hazards: The environmental properties of this product present a low

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environmental hazard. This product, when used under reasonable conditions and in accordance with the 3M directions for use, should not present a health hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use may affect the performance of the product and may present potential health and safety hazards.

## 3.2 POTENTIAL HEALTH EFFECTS

#### **Eve 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.

#### POTENTIAL ENVIRONMENTAL EFFECTS 3.3

This substance does not leach metals or other RCRA (Resource Conservation and Recovery Act) listed TCLP (Toxic Characteristic Leaching Procedure) hazardous substances at concentrations that would make the product a hazardous waste.

## **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.

**Eve 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

**Autoignition temperature** Not Applicable Not Applicable **Flash Point** Flammable Limits(LEL) Not Applicable Flammable Limits(UEL) Not Applicable

## 5.2 EXTINGUISHING MEDIA

Ordinary combustible material. Use fire extinguishers with class A extinguishing agents (e.g., water, foam). Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

## 5.3 PROTECTION OF FIRE FIGHTERS

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

**Unusual Fire and Explosion Hazards:** No unusual fire or explosion hazards are anticipated.

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

## SECTION 6: ACCIDENTAL RELEASE MEASURES

## 6.1. Personal precautions, protective equipment and emergency procedures

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation and personal protective equipment. Evacuate unprotected and untrained personnel from the hazard area. The spill should be cleaned up by qualified personnel. Ventilate the area. WARNING! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. If it can be done safely, place the leaking containers in an exhaust hood or well-ventilated area.WARNING! To avoid problems with pressure buildup, slowly leaking pressurized aerosol cans should not be placed in sealed containers.

## 6.2. Environmental precautions

Not applicable.

# Clean-up methods

Not applicable.

## **SECTION 7: HANDLING AND STORAGE**

## 7.1 HANDLING

This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions.

## 7.2 STORAGE

Not applicable.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1 ENGINEERING CONTROLS

Not applicable.

# 8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

### 8.2.1 Eye/Face Protection

Not applicable.

## 8.2.2 Skin Protection

Not applicable.

## 8.2.3 Respiratory Protection

Not applicable.

# 8.2.4 Prevention of Swallowing

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Not applicable.

## 8.3 EXPOSURE GUIDELINES

<u>Ingredient</u>	<b>Authority</b>	<u>Type</u>	<u>Limit</u>	Additional Information
2-Butanone	ACGIH	TWA	200 ppm	
2-Butanone	ACGIH	STEL	300 ppm	
2-Butanone	OSHA	TWA	590 mg/m3	
Benzene, 1,1'-methylenebis[4-isocyanato-	ACGIH	TWA	0.005 ppm	
Benzene, 1,1'-methylenebis[4-isocyanato-	OSHA	CEIL	0.2  mg/m3	
FREE ISOCYANATES	3M	TWA	0.005 ppm	
FREE ISOCYANATES	3M	STEL	0.02 ppm	

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

paper laminate with indicator dye **Odor, Color, Grade:** 

Solid **General Physical Form:** 

**Autoignition temperature** Not Applicable Flash Point Not Applicable Not Applicable Flammable Limits(LEL) Not Applicable Flammable Limits(UEL) **Boiling Point** Not Applicable **Density** Not Applicable Not Applicable Vapor Density

Vapor Pressure Not Applicable

**Specific Gravity** Not Applicable Not Applicable pН Not Applicable **Melting point** 

Solubility in Water Nil

**Evaporation rate** Not Applicable Kow - Oct/Water partition coef No Data Available **Percent volatile** Not Applicable Viscosity Not Applicable

# **SECTION 10: STABILITY AND REACTIVITY**

Stability: Stable.

Materials and Conditions to Avoid:

10.1 Conditions to avoid

None known

10.2 Materials to avoid

None known

Hazardous Polymerization: Hazardous polymerization will not occur.

## **Hazardous Decomposition or By-Products**

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**Substance** 

Carbon monoxide Carbon dioxide **Condition** 

Oxidation, heat or reaction Oxidation, heat or reaction

**Hazardous Decomposition:** Under recommended usage conditions, hazardous decomposition products are not expected. Hazardous decomposition products may occur as a result of oxidation, heating, or reaction with another material.

# **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 applicable.

### CHEMICAL FATE INFORMATION

Not applicable.

# **SECTION 13: DISPOSAL CONSIDERATIONS**

Waste Disposal Method: Dispose of waste product in a sanitary landfill. As a disposal alternative, incinerate in an industrial or commercial facility.

EPA Hazardous Waste Number (RCRA): Not regulated

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

# **SECTION 14:TRANSPORT INFORMATION**

#### **ID Number(s):**

70-0701-1995-6, 70-0703-1208-0

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

# **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.

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### **CHEMICAL INVENTORIES**

This product is an article as defined by TSCA regulations, and is exempt from TSCA Inventory listing requirements.

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.

**Reason for Reissue:** The MSDS has been revised because 3M has adopted the 16-section ANSI/ISO format. The potential hazards of the product have not changed. We encourage you to reread the MSDS and review the information. Update information

## Revision Changes:

Section 16: Disclaimer (second paragraph) was modified.

Section 14: Transportation legal text was modified.

Section 9: Boiling point information was modified.

Section 5: Flammable limits (UE) information was modified.

Section 5: Flammable limits (LEL) information was modified.

Section 9: Property description for optional properties was modified.

Section 9: Flammable limits (LEL) information was modified.

Section 9: Flammable limits (UEL) information was modified.

Section 2: Ingredient table was modified.

Section 8: Exposure guidelines ingredient information was modified.

Section 6: 6.2. Environmental precautions heading was added.

Section 6: 6.1. Personal precautions, protective equipment and emergency procedures heading was added.

Section 10.1 Conditions to avoid heading was added.

Section 10.2 Materials to avoid heading was added.

Section 16: Web address was added.

Section 6: Personal precautions information was added.

Section 6: Environmental procedures information was added.

Section 6: Methods for cleaning up information was added.

Section 10: Materials to avoid physical property was added.

Section 10: Conditions to avoid physical property was added.

Section 1: Address was added.

Copyright was added.

Company logo was added.

Section 6: Clean-up methods heading was added.

Telephone header was added.

Company Telephone was added.

Section 1: Emergency phone information was added.

Section 1: Emergency phone information was deleted.

Company Logo was deleted.

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Copyright was deleted.

Section 16: Web address heading was deleted.

Section 6: Release measures information was deleted.

Section 6: Release measures heading was deleted.

Section 10: Materials and conditions to avoid physical property was deleted.

Section 1: Address line 1 was deleted.

Section 1: Address line 2 was deleted.

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