

# **Material Safety Data Sheet**

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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** ScotchCode Wire Marker Pen - SMP-B (black) and SMP-R (red)

**MANUFACTURER:** 3M

**DIVISION:** Electrical Markets Division

**ADDRESS:** 3M Center

St. Paul, MN 55144-1000

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

**Issue Date:** 06/23/09 **Supercedes Date:** 03/28/06

**Document Group:** 07-8010-6

**Product Use:** 

Intended Use: WRITING ON WIRE MARKER TAPE

Specific Use: MARKER PEN FOR WIRE IDENTIFICATION

# **SECTION 2: INGREDIENTS**

 Ingredient
 C.A.S. No.
 % by Wt

 1-Methoxy-2-Propanol
 107-98-2
 50 - 55

 1-METHYL-2-PYRROLIDINONE
 872-50-4
 <= 5</td>

## **SECTION 3: HAZARDS IDENTIFICATION**

### 3.1 EMERGENCY OVERVIEW

Specific Physical Form: Felt tip pen. MSDS for ink only

Odor, Color, Grade: BLACK OR RED INK WITH SOLVENT ODOR

General Physical Form: Solid

**Immediate health, physical, and environmental hazards:** Closed containers exposed to heat from fire may build pressure and explode. Vapors may travel long distances along the ground or floor to an ignition source and flash back. May cause target organ effects. Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

### 3.2 POTENTIAL HEALTH EFFECTS

## **Eye Contact:**

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

#### **Skin Contact:**

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, and itching.

May be absorbed through skin and cause target organ effects.

#### **Inhalation:**

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May be absorbed following inhalation and cause target organ effects.

#### **Ingestion:**

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

May be absorbed following ingestion and cause target organ effects.

## **Target Organ Effects:**

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

# **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:** Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

**Skin Contact:** Wash affected area with soap and water. If signs/symptoms develop, get medical attention.

**Inhalation:** Remove person to fresh air. If signs/symptoms develop, get medical attention.

**If Swallowed:** Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

# **SECTION 5: FIRE FIGHTING MEASURES**

#### 5.1 FLAMMABLE PROPERTIES

Autoignition temperatureApproximately 277.5 °CFlash Point90 °F [Test Method: Closed Cup]Flammable Limits - LELApproximately 2.7 % volumeFlammable Limits - UELApproximately 11.8 % volumeOSHA Flammability Classification:Class IC Flammable Liquid

### 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

**Special Fire Fighting Procedures:** Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. See Hazardous Decomposition section for products of combustion. Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

**Unusual Fire and Explosion Hazards:** Closed containers exposed to heat from fire may build pressure and explode. No unusual fire or explosion hazards are anticipated. Vapors may travel long distances along the ground or floor to an ignition source and flash back.

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

# **SECTION 6: ACCIDENTAL RELEASE MEASURES**

Accidental Release Measures: Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Call 3M-HELPS line (1-800-364-3577) for more information on handling and managing the spill. Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Contain spill. Collect as much of the spilled material as possible using non-sparking tools. Clean up residue. Place in a metal container approved for transportation by appropriate authorities. 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

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Keep away from heat, sparks, open flame, pilot lights and other sources of ignition. No smoking while handling this material. Avoid eye contact with vapors, mists, or spray. Keep container closed when not in use. For industrial or professional use only. Avoid eye contact with dust or airborne particles.

#### 7.2 STORAGE

Store away from acids. Store away from heat. Store out of direct sunlight. Keep container in well-ventilated area.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 ENGINEERING CONTROLS

Use with appropriate local exhaust ventilation.

## 8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

### 8.2.1 Eye/Face Protection

Avoid eye contact with vapors, mists, or spray.

#### 8.2.2 Skin Protection

Avoid skin contact. Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

### 8.2.3 Respiratory Protection

Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.

#### 8.2.4 Prevention of Swallowing

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Not applicable.

### 8.3 EXPOSURE GUIDELINES

| <u>Ingredient</u>        | <b>Authority</b> | <b>Type</b> | <u>Limit</u> | <b>Additional Information</b> |
|--------------------------|------------------|-------------|--------------|-------------------------------|
| 1-Methoxy-2-Propanol     | ACGIH            | TWA         | 100 ppm      |                               |
| 1-Methoxy-2-Propanol     | ACGIH            | STEL        | 150 ppm      |                               |
| 1-Methoxy-2-Propanol     | OSHA             | TWA         | 100 ppm      | Table Z-1A                    |
| 1-Methoxy-2-Propanol     | OSHA             | STEL        | 150 ppm      | Table Z-1A                    |
| 1-METHYL-2-PYRROLIDINONE | AIHA             | TWA         | 10 ppm       | Skin Notation*                |

<sup>\*</sup> Substance(s) refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

### SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists

CMRG: Chemical Manufacturer Recommended Guideline OSHA: Occupational Safety and Health Administration

AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

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

Specific Physical Form: Felt tip pen. MSDS for ink only Odor, Color, Grade: BLACK OR RED INK WITH S

Odor, Color, Grade:
BLACK OR RED INK WITH SOLVENT ODOR
General Physical Form:
Solid

**Autoignition temperature** Approximately 277.5 °C

Flash Point 90 °F [Test Method: Closed Cup]

### MATERIAL SAFETY DATA SHEET ScotchCode Wire Marker Pen - SMP-B (black) and SMP-R (red) 06/23/09

Flammable Limits - LEL Approximately 2.7 % volume
Flammable Limits - UEL Approximately 11.8 % volume

**Boiling point** Approximately 121 °C

Vapor Density No Data Available

Vapor Pressure Approximately 0.167 psi

**Specific Gravity** Approximately 0.95 Units not avail. or not appl. [Ref Std:

WATER=1] [Details: SPECIFIC METHOD: calculated]

pH No Data Available

Melting point No Data Available

Solubility in WaterAppreciableEvaporation rateNo Data AvailableVolatile Organic Compounds>=55 % weightPercent volatile>=55 % weight

VOC Less H2O & Exempt Solvents >=55 %

Viscosity No Data Available

## **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**

**Substance** Condition

Aldehydes Oxidative Degradation
Carbon monoxide During Combustion
Carbon dioxide During Combustion

# **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:** Incinerate in a permitted hazardous waste incinerator. As a disposal alternative, dispose of waste product in a permitted hazardous waste facility.

EPA Hazardous Waste Number (RCRA): D001 (Ignitable)

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

# **SECTION 14:TRANSPORT INFORMATION**

| ID Number      | UPC               | ID Number      | UPC               |
|----------------|-------------------|----------------|-------------------|
| 80-6109-2185-2 | 00-54007-09963-5  | 80-6109-2186-0 | 00-54007-09962-8  |
| 80-6114-2806-3 | 000-51128-56218-5 | 80-6114-2807-1 | 000-51128-56219-2 |
| 80-6114-2810-5 | 000-51128-56222-2 |                |                   |

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 - Yes Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - Yes

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

 Ingredient
 C.A.S. No
 % by Wo

 1-METHYL-2-PYRROLIDINONE
 872-50-4
 <= 5</td>

## **STATE REGULATIONS**

Contact 3M for more information.

# **CALIFORNIA PROPOSITION 65**

MATERIAL SAFETY DATA SHEET ScotchCode Wire Marker Pen - SMP-B (black) and SMP-R (red) 06/23/09

**Ingredient** 

C.A.S. No.

Classification

1-METHYL-2-PYRROLIDINONE

2-50-4 \*Developmental Toxin

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

### **CHEMICAL INVENTORIES**

The components of this product are in compliance with the chemical notification requirements of TSCA.

All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS.

Contact 3M for more information.

### INTERNATIONAL REGULATIONS

Contact 3M for more information.

WHMIS: Hazardous

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: 2 Flammability: 3 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.

# **HMIS Hazard Classification**

**Health:** 2 Flammability: 3 Reactivity: 0 Protection: X - See PPE section.

Hazardous Material Identification System (HMIS(r)) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS(r) ratings are to be used with a fully implemented HMIS(r) program. HMIS(r) is a registered mark of the National Paint and Coatings Association (NPCA).

**Revision Changes:** 

Copyright was modified.

Section 14: ID Number(s) and/or UPC(s) Template 1 was added.

Section 2: Ingredient table was added.

Section 15: EPCRA 313 information was added.

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#### MATERIAL SAFETY DATA SHEET ScotchCode Wire Marker Pen - SMP-B (black) and SMP-R (red) 06/23/09

- Section 15: EPCRA 313 text was added.
- Section 8: Exposure guidelines ingredient information was added.
- Section 8: Exposure guideline note was added.
- Section 8: Exposure guidelines data source legend was added.
- Section 15: California proposition 65 ingredient information was added.
- Section 15: California proposition 65 heading was added.

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