

## **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:** 3M<sup>TM</sup> Vinvl Tape 470, 471, 471+, MA471, 4712, 472, 477, 4731, 5700, & 5702, 3M<sup>TM</sup>

Lithographers Tape 616, and 3M<sup>TM</sup> Electroplating/Anodizing Tape 484

MANUFACTURER:

**DIVISION:** Industrial Adhesives and Tapes Division

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

**Issue Date:** 08/14/13 **Supercedes Date:** 06/29/10

**Document Group:** 26-0562-4

**Product Use:** 

Specific Use: Marking/Masking Intended Use: Industrial use

3M<sup>TM</sup> Vinyl Tape 471, 471+, MA471, 4712, 472, 477, & 4731

3M<sup>TM</sup> Electroplating Tape 470

3M<sup>TM</sup> Safety Stripe Tape 5700 & 5702

3M<sup>TM</sup> Lithographers Tape 616

## **SECTION 2: INGREDIENTS**

**Ingredient** C.A.S. No. % by Wt Vinyl Backing Trade Secret 51 - 99 Rubber Adhesive Trade Secret 1 - 49 Paper Liner (4712 only) None Not Applicable

# **SECTION 3: HAZARDS IDENTIFICATION**

#### 3.1 EMERGENCY OVERVIEW

**Specific Physical Form:** Roll of Tape

**Odor, Color, Grade:** various colored vinyl tape.

General Physical Form: Solid

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

**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.

#### 3.3 POTENTIAL ENVIRONMENTAL EFFECTS

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.

Eye Contact:

No need for first aid is anticipated.

## **SECTION 5: FIRE FIGHTING MEASURES**

### 5.1 FLAMMABLE PROPERTIES

Autoignition temperatureNot ApplicableFlash PointNot ApplicableFlammable Limits(LEL)Not Applicable

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Flammable Limits(UEL)

Not Applicable

## 5.2 EXTINGUISHING MEDIA

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

### **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: 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

Not applicable.

#### 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

Avoid eye contact. Not applicable.

#### 8.2.2 Skin Protection

Not applicable. Avoid prolonged or repeated skin contact. Gloves not normally required.

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### 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

Not applicable. Not an expected route of exposure.

### 8.3 EXPOSURE GUIDELINES

None Established

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

**Specific Physical Form:** Roll of Tape

Odor, Color, Grade: various colored vinyl tape.

**General Physical Form:** Solid

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

**Vapor Density** Not Applicable

Vapor Pressure Not Applicable

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

Solubility in Water

**Evaporation rate** Not Applicable **Volatile Organic Compounds** Not Applicable **Kow - Oct/Water partition coef** Not Applicable Percent volatile Not Applicable **VOC Less H2O & Exempt Solvents** Not Applicable Not Applicable Viscosity

## **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**

<u>Substance</u> <u>Condition</u>

Hydrocarbons During Combustion
Carbon monoxide During Combustion
Carbon dioxide During Combustion

**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 determined.

### CHEMICAL FATE INFORMATION

Not determined.

### **SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal Method:** Reclaim if feasible. If product can't be reclaimed, dispose of waste product in a sanitary landfill. Alternatively, incinerate the waste product in an industrial, commercial, or municipal incinerator.

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

### **SECTION 14:TRANSPORT INFORMATION**

Not regulated per U.S. DOT, IATA or IMO.

These transportation classifications are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. 3M transportation classifications are based on product formulation, packaging, 3M policies and 3M understanding of applicable current regulations. 3M does not guarantee the accuracy of this classification information. This information applies only to transportation classification and <u>not</u> the packaging, labeling, or marking requirements. The original 3M package is certified for U.S. ground shipment only. If you are shipping by air or ocean, the package may not meet applicable regulatory requirements.

## **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.

### **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.

### **Revision Changes:**

Section 1: Product name information was modified.

Section 1: Product use information information was modified.

Section 16: Disclaimer (second paragraph) information was modified.

Section 8: Eye/face protection phrase information was modified.

Section 8: Skin protection phrase information was modified.

Section 8: Prevention of swallowing information information was modified.

Section 10: Hazardous decomposition or by-products table information was modified.

Section 14: Transportation legal text information was modified.

Page Heading: Product name information was modified.

Section 9: Vapor density value information was modified.

Section 9: Vapor pressure value information was modified.

Section 9: Boiling point information information was modified.

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

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

Section 5: Autoignition temperature information information was modified.

Section 5: Flash point information information was modified.

Section 9: Property description for optional properties information was modified.

Section 9: Specific gravity information information was modified.

Section 9: pH information information was modified.

Section 9: Melting point information information was modified.

Section 9: Solubility in water text information was modified.

Section 9: Flash point information information was modified.

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

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

Section 9: Autoignition temperature information information was modified.

Section 2: Product identification comment information was modified.

Section 2: Ingredient table information was modified.

Section 6: 6.2. Environmental precautions heading information was modified.

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

Section 16: Web address information was added.

Section 1: Address information was added.

Copyright information was added.

Company logo information was added.

Telephone header information was added.

Company Telephone information was added.

Section 1: Emergency phone information information was added.

Section 1: Emergency phone information information was deleted.

Company Logo information was deleted.

Copyright information was deleted.

Section 16: Web address heading information was deleted.

Section 1: Address line 1 information was deleted.

Section 1: Address line 2 information was deleted.

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