



## 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™ Polyurethane Protective Tape 8671, 8671HS and 8672  
**MANUFACTURER:** 3M  
**DIVISION:** Aerospace Aircraft Maintenance Division  
**ADDRESS:** 3M Center, St. Paul, MN 55144-1000

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

**Issue Date:** 04/02/12  
**Supercedes Date:** 06/01/10

**Document Group:** 07-9644-1

#### Product Use:

Intended Use: Protective Tape

### SECTION 2: INGREDIENTS

| <u>Ingredient</u>                      | <u>C.A.S. No.</u> | <u>% by Wt</u> |
|--|-------------------|----------------|
| POLYURETHANE                           | Unknown           | 90 - 95        |
| ACRYLIC ACID-ISOOCTYL ACRYLATE POLYMER | 9017-68-9         | 5 - 10         |

### SECTION 3: HAZARDS IDENTIFICATION

#### 3.1 EMERGENCY OVERVIEW

**Specific Physical Form:** Roll of Tape

**Odor, Color, Grade:** Clear or Glossy Black

**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.  
**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> |
| <b>OSHA Flammability Classification:</b> | <i>Not Applicable</i> |

### 5.2 EXTINGUISHING MEDIA

Material will not burn. 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:** Not applicable. 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. Avoid contact with incompatible materials listed in the Reactivity Data Section.

### 6.2. Environmental precautions

Not applicable.

### Clean-up methods

Not applicable. Sweep up.

## SECTION 7: HANDLING AND STORAGE

### 7.1 HANDLING

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

#### 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.

### 8.3 EXPOSURE GUIDELINES

None Established

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

|   |                                  |
|---|----------------------------------|
| <b>Specific Physical Form:</b>            | Roll of Tape                     |
| <b>Odor, Color, Grade:</b>                | Clear or Glossy Black            |
| <b>General Physical Form:</b>             | Solid                            |
| <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>Vapor Density</b>                      | <i>Not Applicable</i>            |
| <b>Vapor Pressure</b>                     | <i>Not Applicable</i>            |
| <b>Specific Gravity</b>                   | 1.15 [ <i>Ref Std: WATER=1</i> ] |
| <b>pH</b>                                 | <i>Not Applicable</i>            |
| <b>Melting point</b>                      | <i>No Data Available</i>         |
| <b>Solubility in Water</b>                | Nil                              |
| <b>Evaporation rate</b>                   | <i>Not Applicable</i>            |
| <b>Volatile Organic Compounds</b>         | <i>Not Applicable</i>            |
| <b>Kow - Oct/Water partition coef</b>     | <i>Not Applicable</i>            |
| <b>Percent volatile</b>                   | <i>Not Applicable</i>            |
| <b>VOC Less H2O &amp; Exempt Solvents</b> | <i>Not Applicable</i>            |
| <b>Viscosity</b>                          | <i>Not Applicable</i>            |

## 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>            |
|--------------------------|-----------------------------|
| Isocyanates              | Oxidation, heat or reaction |
| Carbon monoxide          | Oxidation, heat or reaction |
| Carbon dioxide           | Oxidation, heat or reaction |
| Irritant Vapors or Gases | 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:** 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. Dispose of waste product in a sanitary landfill. As a disposal alternative, incinerate in an industrial or commercial facility.

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

## SECTION 14: TRANSPORT INFORMATION

### ID Number(s):

70-0000-3879-7, 70-0000-3880-5, 70-0000-8352-0, 70-0001-1452-3, 70-0061-0157-3, 70-0061-0158-1, 70-0061-6278-1, 70-0061-7714-4, 70-0061-7896-9, 70-0061-7897-7, 70-0061-7898-5, 70-0061-9314-1, 70-0061-9315-8, 70-0061-9321-6, 70-0062-4146-0, 70-0062-6462-9, 70-0062-6968-5, 70-0062-6969-3, 70-0701-5243-7, 70-0701-5244-5

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.

### 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: 0 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: 0 Flammability: 0 Reactivity: 0 Protection: A

Hazardous Material Identification System (HMIS®) 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® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint and Coatings Association (NPCA).

### Revision Changes:

Section 1: Product use information was modified.  
Section 16: Disclaimer (second paragraph) was modified.  
Section 5: Unusual fire and explosion hazard information was modified.  
Section 8: Eye/face protection phrase was modified.  
Section 10: Hazardous decomposition or by-products table was modified.  
Section 13: Waste disposal method information was modified.  
Section 14: Transportation legal text was modified.  
Section 16: HMIS explanation was modified.  
Section 9: Vapor density value was modified.  
Section 9: Vapor pressure value 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 5: Autoignition temperature information was modified.  
Section 5: Flash point information was modified.  
Section 9: Property description for optional properties was modified.  
Section 9: Specific gravity information was modified.  
Section 9: pH information was modified.  
Section 9: Melting point information was modified.  
Section 9: Solubility in water text was modified.  
Section 9: Flash point information was modified.  
Section 9: Flammable limits (LEL) information was modified.  
Section 9: Flammable limits (UEL) information was modified.  
Section 9: Autoignition temperature information was modified.  
Section 14: ID Number(s) Template 1 was modified.  
Section 2: Ingredient table was modified.  
Section 6: Personal precautions information was modified.  
Section 6: Methods for cleaning up 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 16: Web address was added.

Section 8: Hand protection information 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.

Copyright was deleted.

Section 16: Web address heading was deleted.

Section 6: Release measures heading was deleted.

Section 1: Address line 1 was deleted.

Section 1: Address line 2 was deleted.

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