



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: 8979 3M Performance Plus Duct Tape and 8979N Nuclear Grade
MANUFACTURER: 3M
DIVISION: Industrial Tape And Specialties Division
ADDRESS: 3M Center
 St. Paul, MN 55144-1000

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

Issue Date: 04/28/2005
Supersedes Date: 03/16/2004

Document Group: 19-1211-2

Product Use:

Specific Use: Typical uses include patching, reinforcing, bundling, sealing, splicing, and temporary fastening. Additional uses are marking, labeling, and masking.
General Use: The 8979 Performance Plus Duct Tape is ideal for demanding duct tape applications in the construction, electrical, HVAC, industrial, marine and plumbing markets.

SECTION 2: INGREDIENTS

| <u>Ingredient</u> | <u>C.A.S. No.</u> | <u>% by Wt</u> |
|------------------------------|-------------------|----------------|
| POLYETHYLENE FILM | 9002-88-4 | 20 - 30 |
| SYNTHETIC HYDROCARBON RESINS | VARIOUS | 20 - 30 |
| FILLER | NOT AVAILABLE | 15 - 30 |
| RUBBER | 9003-31-0 | 15 - 25 |
| CLOTH | VARIOUS | 1 - 10 |

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Odor, Color, Grade: This is a slate blue film backed duct tape with white pigmented adhesive suitable for demanding applications requiring UV, water, and abrasion resistance. Product has a natural rubber odor.

General Physical Form: Solid

Immediate health, physical, and environmental hazards: 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:

If thermal decomposition occurs:

Vapors from heated material may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Skin Contact:

No health effects are expected.

Inhalation:

If thermal decomposition occurs:

Vapors from heated material may cause irritation of the respiratory system. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Ingestion:

No health effects are expected.

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: No need for first aid is anticipated.

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

If Swallowed: No need for first aid is anticipated.

SECTION 5: FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES

| | |
|--------------------------|-------------------|
| Autoignition temperature | 550 - 600 °F |
| Flash Point | 230 - 250 °C |
| Flammable Limits - LEL | No Data Available |
| Flammable Limits - UEL | No Data Available |

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 be used to blanket the fire. 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

Accidental Release Measures: Not applicable.

SECTION 7: HANDLING AND STORAGE

7.1 HANDLING

Do not ingest. Avoid skin contact with hot material. Avoid eye contact with vapors, mists, or spray. Avoid breathing of dust created by cutting, sanding, grinding or machining. 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

Store away from heat. Store out of direct sunlight. Not applicable.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS

Not applicable. Provide appropriate local exhaust for molten or extruded material. Provide appropriate local exhaust for cutting, grinding, sanding or machining. Provide appropriate local exhaust when product is heated.

8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

8.2.1 Eye/Face Protection

Not applicable. Avoid eye contact with vapors, mists, or spray.

8.2.2 Skin Protection

Wear appropriate gloves, such as Nomex, when handling this material to prevent thermal burns. Not applicable. Gloves not normally required. Avoid prolonged or repeated skin contact. Avoid skin contact with hot material.

8.2.3 Respiratory Protection

Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection. Avoid breathing of dust created by cutting, sanding, grinding or machining.

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

| | |
|--|---|
| Odor, Color, Grade: | This is a slate blue film backed duct tape with white pigmented adhesive suitable for demanding applications requiring UV, water, and abrasion resistance. Product has a natural rubber odor. |
| General Physical Form: | Solid |
| Autoignition temperature | 550 - 600 °F |
| Flash Point | 230 - 250 °C |
| Flammable Limits - LEL | <i>No Data Available</i> |
| Flammable Limits - UEL | <i>No Data Available</i> |
| Boiling point | <i>Not Applicable</i> |
| Density | 0.88 - 0.96 g/ml |
| Vapor Density | <i>Not Applicable</i> |
| Vapor Density | Negligible |
| Vapor Pressure | <i>Not Applicable</i> |
| Vapor Pressure | Negligible |
| Specific Gravity | 0.88 - 0.96 g/ml |
| pH | <i>Not Applicable</i> |
| Melting point | 98 - 102 °C |
| Solubility in Water | Negligible |
| Hazardous Air Pollutants | 0.1 - 0.3 % weight |
| Volatile Organic Compounds | 0.1 - 0.3 % |
| VOC Less H₂O & Exempt Solvents | 0.0 - 0.01 % |

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

Carbon monoxide
Carbon dioxide
None known.

Condition

Not Specified
Not Specified
Not Specified

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. Not applicable.

CHEMICAL FATE INFORMATION

Not determined. Not applicable.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: 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):

70-0062-9445-1, 70-0062-9446-9, 70-0062-9447-7, 70-0063-5279-6, 70-0063-5538-5, 70-0063-5597-1, 70-0063-5599-7, 70-0063-5600-3, 70-0063-5601-1, 70-0063-5603-7, 70-0063-5604-5, 70-0063-5605-2, 70-0063-5607-8, 70-0063-5912-2, 70-0063-5913-0, 70-0064-0390-4, 70-0064-0391-2, 70-0064-0406-8, 70-0064-0407-6, 70-0064-0408-4

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.

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.

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

Reason for Reissue: Add Nuclear Grade, 8979N, to document.

Revision Changes:

Section 1: Product name was modified.

Copyright was modified.

Section 5: Unusual fire and explosion hazard information was modified.

Section 6: Release measures information was modified.

Section 7: Handling information was modified.

Section 8: Engineering controls information was modified.

Section 8: Skin protection phrase was modified.

Section 8: Prevention of swallowing information was modified.

Section 13: Waste disposal method information was modified.

Section 2: Ingredient table was modified.

Page Heading: Product name was modified.

Section 15: Inventories information was modified.

Section 1: Initial issue message was modified.

Section 16: Reason for reissue comment was added.

Section 14: ID Number heading was added.

Section 14: ID Number(s) was added.

Section 16: Reason for reissue heading was added.

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