



## Safety Data Sheet

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|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 10-9990-2 | <b>Version Number:</b>  | 39.03    |
| <b>Issue Date:</b>     | 04/21/26  | <b>Supersedes Date:</b> | 06/10/21 |

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Hot Melt Adhesive 3748PG, 3748TC, 3748Q, 3748B Off-White

#### Product Identification Numbers

| ID Number      | UPC              | ID Number      | UPC              |
|----------------|------------------|----------------|------------------|
| 62-3748-7230-7 | 00-21200-82153-0 | 62-3748-7231-5 | 00-21200-82154-7 |
| 62-3748-7232-3 | 00-21200-83524-7 | 62-3748-9132-3 | 00-21200-76374-8 |
| 62-3748-9330-3 | 00-21200-82585-9 | 62-3748-9334-5 | 00048011572338   |
| 62-3748-9335-2 | 00-21200-43752-6 | 62-3748-9337-8 |                  |
| 62-3748-9338-6 |                  | 62-3748-9339-4 | 00-21200-49095-8 |
| 62-3748-9830-2 | 00-21200-82584-2 | 62-3748-9836-9 | 00-21200-39258-0 |

7010310217, 7000121337, 7000000878, 7100005566, 7100044127, 7100179072, 7000000879, 7010366290, 7000121338, 7100086310

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Adhesive, hot-melt adhesive

#### 1.3. Supplier's details

|                      |   |
|----------------------|---|
| <b>MANUFACTURER:</b> | 3M                                      |
| <b>DIVISION:</b>     | Industrial Adhesives and Tapes Division |
| <b>ADDRESS:</b>      | 3M Center, St. Paul, MN 55144-1000, USA |
| <b>Telephone:</b>    | 1-888-3M HELPS (1-888-364-3577)         |

#### 1.4. Emergency telephone number

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

### SECTION 2: Hazard identification

#### 2.1. Hazard classification

Not classified as hazardous according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.

## 2.2. Label elements

### Signal word

Not applicable.

### Symbols

Not applicable

### Pictograms

Not applicable

### Supplemental Information:

Avoid contact with hot extruded molten material or applicator tip. Avoid direct eye exposure to vapors. In case of eye/skin contact with molten material, immediately flush with cold water and cover with a clean dressing. Do not attempt to remove molten material. Have burn treated by a physician. May cause thermal burns.

## SECTION 3: Composition/information on ingredients

| Ingredient  | C.A.S. No.    | % by Wt |
|---|---------------|---------|
| Polypropylene   | 9003-07-0     | 15 - 40 |
| Hydrocarbon Resin (NJTS Reg. No. 04499600-7064)         | Trade Secret* | 10 - 30 |
| Styrene-Butadiene Polymer (NJTS Reg. No. 04499600-7063) | Trade Secret* | 10 - 30 |
| Ethylene-Propylene Polymer                              | 9010-79-1     | 1 - 25  |
| Polyethylene  | 9002-88-4     | 1 - 25  |
| Polyolefin Wax  | 8002-74-2     | 5 - 10  |

NJTS or NJTSRN: New Jersey Trade Secret Registry Number.

\*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation:

No need for first aid is anticipated. If symptoms develop, remove the affected person to fresh air. Get medical attention.

#### Skin Contact:

Immediately flush skin with large amounts of cold water for at least 15 minutes. DO NOT ATTEMPT TO REMOVE MOLTEN MATERIAL. Cover affected area with a clean dressing. Get immediate medical attention.

#### Eye Contact:

Immediately flush eyes with large amounts of water for at least 15 minutes. DO NOT ATTEMPT TO REMOVE MOLTEN MATERIAL. Get immediate medical attention.

#### If Swallowed:

Do not induce vomiting. Rinse mouth. If you feel unwell, get medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

No critical symptoms or effects. See Section 11.1, information on toxicological effects.

### 4.3. Indication of any immediate medical attention and special treatment required

Not applicable

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

### 5.2. Special hazards arising from the substance or mixture

None inherent in this product.

### Hazardous Decomposition or By-Products

| <u>Substance</u>   | <u>Condition</u>  |
|--------------------|-------------------|
| Aldehydes          | During Combustion |
| Hydrocarbons       | During Combustion |
| Carbon monoxide    | During Combustion |
| Carbon dioxide     | During Combustion |
| Ketones            | During Combustion |
| Oxides of Nitrogen | During Combustion |

### 5.3. Special protective actions for fire-fighters

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

## SECTION 6: Accidental release measures

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

Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS. Ventilate the area with fresh air. Observe precautions from other sections.

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid skin contact with hot material. For industrial/occupational use only. Not for consumer sale or use.

### 7.2. Conditions for safe storage including any incompatibilities

No special storage requirements.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Occupational exposure limits**

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| Ingredient     | C.A.S. No. | Agency | Limit type                       | Additional Comments |
|----------------|------------|--------|----------------------------------|---------------------|
| Polyolefin Wax | 8002-74-2  | ACGIH  | TWA(as fume):2 mg/m <sup>3</sup> |                     |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

**8.2. Exposure controls****8.2.1. Engineering controls**

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

**8.2.2. Personal protective equipment (PPE)****Eye/face protection**

None required.

**Skin/hand protection**

No chemical protective gloves are required.

**Respiratory protection**

None required.

**Thermal hazards**

Wear heat insulating gloves, indirect vented goggles, and a full face shield when handling hot material to prevent thermal burns.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|   |   |
|---|---|
| Physical state                                    | Solid   |
| Specific Physical Form:                           | Waxy Solid  |
| Color   | Off-White   |
| Odor  | Mild Resinous                                     |
| Odor threshold                                    | <i>No Data Available</i>                          |
| pH  | <i>Not Applicable</i>                             |
| Melting point/Freezing point                      | <i>No Data Available</i>                          |
| Boiling point/Initial boiling point/Boiling range | <i>Not Applicable</i>                             |
| Flash Point                                       | 280 °C [ <i>Test Method: Cleveland Open Cup</i> ] |
| Evaporation rate                                  | <i>Not Applicable</i>                             |
| Flammability                                      | Not Applicable                                    |
| Flammable Limits(LEL)                             | <i>Not Applicable</i>                             |
| Flammable Limits(UEL)                             | <i>Not Applicable</i>                             |
| Relative Vapor Density                            | Nil   |
| Density   | 0.92 - 0.94 g/cm <sup>3</sup>                     |
| Relative Density                                  | 0.92 - 0.94 [ <i>Ref Std: WATER=1</i> ]           |

|   |   |
|---|---|
| Water solubility                            | Nil   |
| Solubility- non-water                       | No Data Available   |
| Partition coefficient: n-octanol/ water     | No Data Available   |
| Autoignition temperature                    | 330 °C  |
| Decomposition temperature                   | No Data Available   |
| Kinematic Viscosity                         | 5,435 mm <sup>2</sup> /sec                                |
| Volatile Organic Compounds                  | 0 g/l [ <i>Test Method</i> :calculated SCAQMD rule 443.1] |
| Percent volatile                            | 0 % weight  |
| VOC Less H <sub>2</sub> O & Exempt Solvents | 0 g/l [ <i>Test Method</i> :calculated SCAQMD rule 443.1] |
| Molecular weight                            | No Data Available   |
| Solids Content                              | 100 %   |

|                          |                |
|--------------------------|----------------|
| Particle Characteristics | Not Applicable |
|--------------------------|----------------|

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This material is considered to be non reactive under normal use conditions.

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

| <u>Substance</u> | <u>Condition</u> |
|------------------|------------------|
| None known.      |                  |

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

### 11.1. Information on Toxicological effects

#### Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

#### Inhalation:

No health effects are expected.

**Skin Contact:**

During heating: Thermal Burns: Signs/symptoms may include intense pain, redness and swelling, and tissue destruction.

**Eye Contact:**

During heating: Thermal Burns: Signs/symptoms may include severe pain, redness and swelling, and tissue destruction.

**Ingestion:**

No known health effects.

**Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

**Acute Toxicity**

| Name  | Route     | Species                | Value  |
|---|-----------|------------------------|--|
| Overall product   | Dermal    |                        | No data available; calculated ATE >5,000 mg/kg |
| Overall product   | Ingestion |                        | No data available; calculated ATE >5,000 mg/kg |
| Polypropylene   | Dermal    |                        | LD50 estimated to be > 5,000 mg/kg             |
| Polypropylene   | Ingestion | Mouse                  | LD50 > 8,000 mg/kg                             |
| Hydrocarbon Resin (NJTS Reg. No. 04499600-7064)         | Dermal    | Professional judgement | LD50 estimated to be > 5,000 mg/kg             |
| Hydrocarbon Resin (NJTS Reg. No. 04499600-7064)         | Ingestion | Professional judgement | LD50 7,000 mg/kg                               |
| Ethylene-Propylene Polymer                              | Dermal    | Rabbit                 | LD50 > 2,000 mg/kg                             |
| Ethylene-Propylene Polymer                              | Ingestion | Rat                    | LD50 > 5,000 mg/kg                             |
| Styrene-Butadiene Polymer (NJTS Reg. No. 04499600-7063) | Dermal    |                        | LD50 estimated to be > 5,000 mg/kg             |
| Styrene-Butadiene Polymer (NJTS Reg. No. 04499600-7063) | Ingestion |                        | LD50 estimated to be > 5,000 mg/kg             |
| Polyethylene  | Dermal    |                        | LD50 estimated to be > 5,000 mg/kg             |
| Polyethylene  | Ingestion | Rat                    | LD50 > 2,000 mg/kg                             |
| Polyolefin Wax  | Dermal    | Rat                    | LD50 > 5,000 mg/kg                             |
| Polyolefin Wax  | Ingestion | Rat                    | LD50 > 5,000 mg/kg                             |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name  | Species                | Value                     |
|---|------------------------|---------------------------|
| Polypropylene                                   | Human and animal       | No significant irritation |
| Hydrocarbon Resin (NJTS Reg. No. 04499600-7064) | Professional judgement | No significant irritation |
| Ethylene-Propylene Polymer                      | Rabbit                 | No significant irritation |
| Polyethylene                                    | Professional judgement | No significant irritation |
| Polyolefin Wax                                  | Rabbit                 | No significant irritation |

**Serious Eye Damage/Irritation**

| Name          | Species      | Value                     |
|---------------|--------------|---------------------------|
| Polypropylene | Professional | No significant irritation |

|                            | judgement |                           |
|----------------------------|-----------|---------------------------|
| Ethylene-Propylene Polymer | Rabbit    | No significant irritation |
| Polyolefin Wax             | Rabbit    | No significant irritation |

### Skin Sensitization

| Name           | Species          | Value          |
|----------------|------------------|----------------|
| Polypropylene  | Human and animal | Not classified |
| Polyolefin Wax | Guinea pig       | Not classified |

### Respiratory Sensitization

For the component/components, either no data are currently available or the data are not sufficient for classification.

### Germ Cell Mutagenicity

| Name  | Route    | Value         |
|---|----------|---------------|
| Polypropylene                                   | In Vitro | Not mutagenic |
| Hydrocarbon Resin (NJTS Reg. No. 04499600-7064) | In Vitro | Not mutagenic |
| Polyolefin Wax                                  | In Vitro | Not mutagenic |

### Carcinogenicity

| Name           | Route         | Species                 | Value  |
|----------------|---------------|-------------------------|--|
| Polypropylene  | Not Specified | Rat                     | Some positive data exist, but the data are not sufficient for classification |
| Polyethylene   | Not Specified | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| Polyolefin Wax | Ingestion     | Rat                     | Not carcinogenic   |

### Reproductive Toxicity

#### Reproductive and/or Developmental Effects

For the component/components, either no data are currently available or the data are not sufficient for classification.

#### Target Organ(s)

#### Specific Target Organ Toxicity - single exposure

For the component/components, either no data are currently available or the data are not sufficient for classification.

#### Specific Target Organ Toxicity - repeated exposure

| Name           | Route     | Target Organ(s)      | Value  | Species | Test Result           | Exposure Duration |
|----------------|-----------|----------------------|--|---------|-----------------------|-------------------|
| Polyolefin Wax | Ingestion | heart                | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL 15 mg/kg/day    | 90 days           |
| Polyolefin Wax | Ingestion | hematopoietic system | Not classified   | Rat     | NOAEL 1,500 mg/kg/day | 90 days           |
| Polyolefin Wax | Ingestion | liver                | Not classified   | Rat     | NOAEL 1,500 mg/kg/day | 90 days           |
| Polyolefin Wax | Ingestion | immune system        | Not classified   | Rat     | NOAEL 1,500 mg/kg/day | 90 days           |
| Polyolefin Wax | Ingestion | skin                 | Not classified   | Rat     | NOAEL 1,500 mg/kg/day | 90 days           |
| Polyolefin Wax | Ingestion | endocrine system     | Not classified   | Rat     | NOAEL                 | 90 days           |

|                |           |                                    |                |     |                             |         |
|----------------|-----------|------------------------------------|----------------|-----|-----------------------------|---------|
|                |           |                                    |                |     | 1,500<br>mg/kg/day          |         |
| Polyolefin Wax | Ingestion | bone, teeth, nails,<br>and/or hair | Not classified | Rat | NOAEL<br>1,500<br>mg/kg/day | 90 days |
| Polyolefin Wax | Ingestion | muscles                            | Not classified | Rat | NOAEL<br>1,500<br>mg/kg/day | 90 days |
| Polyolefin Wax | Ingestion | nervous system                     | Not classified | Rat | NOAEL<br>1,500<br>mg/kg/day | 90 days |
| Polyolefin Wax | Ingestion | eyes                               | Not classified | Rat | NOAEL<br>1,500<br>mg/kg/day | 90 days |
| Polyolefin Wax | Ingestion | kidney and/or<br>bladder           | Not classified | Rat | NOAEL<br>1,500<br>mg/kg/day | 90 days |
| Polyolefin Wax | Ingestion | respiratory system                 | Not classified | Rat | NOAEL<br>1,500<br>mg/kg/day | 90 days |
| Polyolefin Wax | Ingestion | vascular system                    | Not classified | Rat | NOAEL<br>1,500<br>mg/kg/day | 90 days |

**Aspiration Hazard**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.**

**SECTION 12: Ecological information****Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

**Chemical fate information**

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

**SECTION 13: Disposal considerations****13.1. Disposal methods**

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Prior to disposal, consult all applicable authorities and regulations to insure proper classification. Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. If no other disposal options are available, waste product may be placed in a landfill properly designed for industrial waste.

**SECTION 14: Transport Information**

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

**SECTION 15: Regulatory information**

### 15.1. US Federal Regulations

Contact 3M for more information.

#### EPCRA 311/312 Hazard Classifications:

**Physical Hazards**

Not Applicable.

**Health Hazards**

Not Applicable.

### 15.2. State Regulations

Contact 3M for more information.

### 15.3. Chemical Inventories

The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

Contact 3M for more information.

### 15.4. International Regulations

Contact 3M for more information.

**This SDS 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 **Instability:** 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.

|                        |           |                         |          |
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