# Safety Data Sheet

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## 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
**MANUFACTURER:** 3M
**DIVISION:** Industrial Adhesives and Tapes Division
**ADDRESS:** 3M Center, St. Paul, MN 55144-1000, USA
**Telephone:** 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.

26% of the mixture consists of ingredients of unknown acute oral toxicity.
26% of the mixture consists of ingredients of unknown acute dermal toxicity.

## 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 |
| Non-Hazardous Additives | Trade Secret* | < 2 |

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**

| Substance | Condition |
|---|---|
| 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**
Ventilate the area with fresh air. Observe precautions from other sections. 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.

**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/m3 | |

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** | *No Data Available* |
| **pH** | *Not Applicable* |
| **Melting point** | *No Data Available* |
| **Boiling Point** | *Not Applicable* |
| **Flash Point** | 536 ºF [*Test Method:*Cleveland Open Cup] |
| **Evaporation rate** | *Not Applicable* |
| **Flammability** | Not Applicable |
| **Flammable Limits(LEL)** | *Not Applicable* |
| **Flammable Limits(UEL)** | *Not Applicable* |

| | |
|---|---|
| **Vapor Pressure** | Nil |
| **Relative Vapor Density** | Nil |
| **Density** | 0.92 - 0.94 g/cm3 |
| **Relative Density** | 0.92 - 0.94 [*Ref Std:*WATER=1] |
| **Solubility in Water** | Nil |
| **Solubility- non-water** | *No Data Available* |
| **Partition coefficient: n-octanol/ water** | *No Data Available* |
| **Autoignition temperature** | 626 ºF |
| **Decomposition temperature** | *No Data Available* |
| **Kinematic Viscosity** | 5,435 mm2/sec |
| **Hazardous Air Pollutants** | 0 % weight [*Test Method:*Calculated] |
| **Molecular weight** | *No Data Available* |
| **Volatile Organic Compounds** | 0 g/l [*Test Method:*calculated SCAQMD rule 443.1] |
| **Percent volatile** | 0 % weight |
| **VOC Less H2O & Exempt Solvents** | 0 g/l [*Test Method:*calculated SCAQMD rule 443.1] |
| **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**

| **Substance** | **Condition** |
|---|---|
| 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 |
| 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 |
| Non-Hazardous Additives | Dermal | Rabbit | LD50 > 3,160 mg/kg |
| Non-Hazardous Additives | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 1.95 mg/l |
| Non-Hazardous Additives | Ingestion | Rat | LD50 > 10,250 mg/kg |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name | Species | Value |
|---|---|---|
| Polypropylene | Human and animal | No significant irritation |
| Ethylene-Propylene Polymer | Rabbit | No significant irritation |
| Polyethylene | Professional judgement | No significant irritation |
| Polyolefin Wax | Rabbit | No significant irritation |
| Non-Hazardous Additives | Rabbit | No significant irritation |

**Serious Eye Damage/Irritation**

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

| | | |
|---|---|---|
| Ethylene-Propylene Polymer | Rabbit | No significant irritation |
| Polyolefin Wax | Rabbit | No significant irritation |
| Non-Hazardous Additives | Rabbit | Mild irritant |

**Skin Sensitization**

| Name | Species | Value |
|---|---|---|
| Polypropylene | Human and animal | Not classified |
| Polyolefin Wax | Guinea pig | Not classified |
| Non-Hazardous Additives | Human and animal | 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 |
| Polyolefin Wax | In Vitro | Not mutagenic |
| Non-Hazardous Additives | In Vitro | Not mutagenic |
| Non-Hazardous Additives | In vivo | 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 |
| Non-Hazardous Additives | Ingestion | Multiple animal species | Not carcinogenic |

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

| Name | Route | Value | Species | Test Result | Exposure Duration |
|---|---|---|---|---|---|
| Non-Hazardous Additives | Ingestion | Not classified for female reproduction | Rat | NOAEL 688 mg/kg/day | 2 generation |
| Non-Hazardous Additives | Ingestion | Not classified for male reproduction | Rat | NOAEL 688 mg/kg/day | 2 generation |
| Non-Hazardous Additives | Ingestion | Not classified for development | Multiple animal species | NOAEL 1,000 mg/kg/day | during organogenesis |

**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 1,500 mg/kg/day | 90 days |
| Polyolefin Wax | Ingestion | bone, teeth, nails, and/or hair | Not classified | Rat | NOAEL 1,500 mg/kg/day | 90 days |
| Polyolefin Wax | Ingestion | muscles | Not classified | Rat | NOAEL 1,500 mg/kg/day | 90 days |
| Polyolefin Wax | Ingestion | nervous system | Not classified | Rat | NOAEL 1,500 mg/kg/day | 90 days |
| Polyolefin Wax | Ingestion | eyes | Not classified | Rat | NOAEL 1,500 mg/kg/day | 90 days |
| Polyolefin Wax | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 1,500 mg/kg/day | 90 days |
| Polyolefin Wax | Ingestion | respiratory system | Not classified | Rat | NOAEL 1,500 mg/kg/day | 90 days |
| Polyolefin Wax | Ingestion | vascular system | Not classified | Rat | NOAEL 1,500 mg/kg/day | 90 days |
| Non-Hazardous Additives | Ingestion | endocrine system | Not classified | Rat | NOAEL 450 mg/kg/day | 2 years |
| Non-Hazardous Additives | Ingestion | liver | Not classified | Dog | NOAEL 302 mg/kg/day | 90 days |
| Non-Hazardous Additives | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 2,500 mg/kg/day | 90 days |
| Non-Hazardous Additives | Ingestion | nervous system | Not classified | Rat | NOAEL 2,500 mg/kg/day | 90 days |
| Non-Hazardous Additives | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 2,500 mg/kg/day | 90 days |
| Non-Hazardous Additives | Ingestion | auditory system | Not classified | Dog | NOAEL 302 mg/kg/day | 90 days |
| Non-Hazardous Additives | Ingestion | eyes | Not classified | Dog | NOAEL 302 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.

**EPA Hazardous Waste Number (RCRA):** Not regulated

## 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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