



Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier

3M™ Hot Melt Adhesive 3748-Q Black, 3748B

Product Identification Numbers

62-3724-9132-4, 62-3724-9335-3
7100026254, 7010366174

1.2. Recommended use and restrictions on use

Recommended use

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.

SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|---|---------------|------------------------|
| Polypropylene | 9003-07-0 | 10 - 40 Trade Secret * |
| Hydrocarbon Resin (NJTS Reg. No. 04499600-7079) | Trade Secret* | 20 - 30 Trade Secret * |
| Ethylene-Propylene Polymer | 9010-79-1 | 1 - 25 Trade Secret * |
| Polyethylene | 9002-88-4 | 1 - 20 Trade Secret * |
| Styrene-Butadiene Polymer (NJTS Reg. No. 04499600-7080) | Trade Secret* | 1 - 20 Trade Secret * |
| Polyolefin Wax | 8002-74-2 | 1 - 10 Trade Secret * |
| Stabilizer | 6683-19-8 | 0.1 - 5 Trade Secret * |

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.

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:

No need for first aid is anticipated.

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

Hydrocarbons
Carbon monoxide

Condition

During Combustion
During Combustion

Carbon dioxide

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. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. 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/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

No engineering controls required.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face

protection(s) are recommended:

Full Face Shield

Indirect Vented Goggles

Skin/hand protection

No chemical protective gloves are required.

Respiratory protection

None required.

Thermal hazards

Wear heat insulating gloves when handling hot material to prevent thermal burns.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state

Solid

Color

Black

Specific Physical Form:

Waxy Solid

Odor

Mild Resinous

Odor threshold

No Data Available

pH

Not Applicable

Melting point

Not Applicable

Boiling Point

Not Applicable

Flash Point

280 °C [*Test Method*:Cleveland Open Cup]

Evaporation rate

Not Applicable

Flammability (solid, gas)

Not Classified

Flammable Limits(LEL)

Not Applicable

Flammable Limits(UEL)

Not Applicable

Vapor Pressure

Nil

Vapor Density

Nil

Density

0.92 g/cm³

Specific Gravity

0.92 [*Ref Std*:WATER=1]

Solubility in Water

Nil

Solubility- non-water

No Data Available

Partition coefficient: n-octanol/ water

No Data Available

Autoignition temperature

330 °C

Decomposition temperature

No Data Available

Viscosity

No Data Available

Hazardous Air Pollutants

0 % weight [*Test Method*:Calculated]

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 %

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. 04499600-7079) | Dermal | Rat | LD50 > 2,000 mg/kg |
| Hydrocarbon Resin (NJTS Reg. No. 04499600-7079) | Ingestion | Rat | LD50 > 5,000 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. 04499600-7080) | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Styrene-Butadiene Polymer (NJTS Reg. No. 04499600-7080) | 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 |
| Stabilizer | Dermal | Rabbit | LD50 > 3,160 mg/kg |
| Stabilizer | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 1.95 mg/l |
| Stabilizer | 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 |
| Stabilizer | 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 |
| Stabilizer | Rabbit | Mild irritant |

Skin Sensitization

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

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test Result | Exposure Duration |
|------------|-----------|--|-------------------------|-----------------------|----------------------|
| Stabilizer | Ingestion | Not classified for female reproduction | Rat | NOAEL 688 mg/kg/day | 2 generation |
| Stabilizer | Ingestion | Not classified for male reproduction | Rat | NOAEL 688 mg/kg/day | 2 generation |
| Stabilizer | 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 liver immune system skin endocrine system bone, teeth, nails, and/or hair muscles nervous system eyes kidney and/or bladder respiratory system vascular system | Not classified | Rat | NOAEL 1,500 mg/kg/day | 90 days |
| Stabilizer | Ingestion | endocrine system | Not classified | Rat | NOAEL 450 mg/kg/day | 2 years |
| Stabilizer | Ingestion | liver | Not classified | Dog | NOAEL 302 mg/kg/day | 90 days |
| Stabilizer | Ingestion | hematopoietic system nervous system kidney and/or bladder | Not classified | Rat | NOAEL 2,500 mg/kg/day | 90 days |
| Stabilizer | Ingestion | auditory system 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.

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 not 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

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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