



Safety Data Sheet

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Document Group: 10-0380-5
Issue Date: 03/26/24

Version Number: 33.00
Supersedes Date: 05/16/23

SECTION 1: Identification

1.1. Product identifier

3M™ Hot Melt Adhesive 3792-AE, 3792-PG, 3792-TC, 3792-Q, 3792-B

Product Identification Numbers

| ID Number | UPC | ID Number | UPC |
|----------------|------------------|----------------|------------------|
| 62-3792-7230-5 | | 62-3792-7232-1 | 00-21200-21043-3 |
| 62-3792-7233-9 | 00-21200-21044-0 | 62-3792-7234-7 | 00-21200-65269-1 |
| 62-3792-9132-1 | 00-21200-65263-9 | 62-3792-9330-1 | 00-21200-82606-1 |
| 62-3792-9335-0 | 00-21200-87960-9 | 62-3792-9338-4 | |
| 62-3792-9339-2 | 00-21200-49097-2 | 62-3792-9531-4 | 00-21200-82583-5 |
| 62-3792-9830-0 | 00-21200-82589-7 | | |

7010366313, 7010330275, 7010295323, 7010366314, 7000000891, 7100020334, 7000121348, 7010330277, 7100020335, 7100020336, 7010366316

1.2. Recommended use and restrictions on use

Recommended use

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

Carcinogenicity: Category 2.

2.2. Label elements

Signal word

Warning

Symbols

Health Hazard |

Pictograms**Hazard Statements**

Suspected of causing cancer.

Precautionary Statements**Prevention:**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves.

Response:

IF exposed or concerned: Get medical advice/attention.

Storage:

Store locked up.

Disposal:

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

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 |
|--------------------------------|-------------------|------------------------|
| Ethylene-Vinyl Acetate Polymer | 24937-78-8 | 55 - 75 Trade Secret * |
| Hydrocarbon Resin | Mixture | < 40 Trade Secret * |
| Vinyl Acetate | 108-05-4 | < 0.5 Trade Secret * |

*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:**

Remove person to fresh air. If you are concerned, get medical advice.

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:

Rinse mouth. If you are concerned, get medical advice.

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**

Carbon monoxide
Carbon dioxide

Condition

During Combustion
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**

Evacuate area. 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. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (gloves, respirators, etc.) as required.

7.2. Conditions for safe storage including any incompatibilities

Store away from oxidizing agents.

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 |
|---------------|------------|--------|------------------------|------------------------------|
| Vinyl Acetate | 108-05-4 | ACGIH | TWA:10 ppm;STEL:15 ppm | A3: Confirmed animal carcin. |

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

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

Gloves made from the following material(s) are recommended: Butyl Rubber

Polymer laminate

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

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

Appearance

Physical state

Solid

Color

White

| | |
|--|---|
| Specific Physical Form: | Waxy Solid |
| Odor | Odorless |
| Odor threshold | <i>No Data Available</i> |
| pH | <i>Not Applicable</i> |
| Melting point | <i>Not Applicable</i> |
| Boiling Point | <i>Not Applicable</i> |
| Flash Point | >=450 °F [<i>Test Method</i> :Cleveland Open Cup] [<i>Details</i> :CONDITIONS: ASTM D-92-72] |
| Evaporation rate | <i>Not Applicable</i> |
| Flammability (solid, gas) | Not Classified |
| Flammable Limits(LEL) | <i>No Data Available</i> |
| Flammable Limits(UEL) | <i>No Data Available</i> |
| Vapor Pressure | Nil |
| Vapor Density | Nil |
| Density | 0.94 - 0.97 g/cm3 |
| Specific Gravity | 0.94 - 0.97 [<i>Ref Std</i> :WATER=1] |
| Solubility in Water | Nil |
| Solubility- non-water | <i>No Data Available</i> |
| Partition coefficient: n-octanol/ water | <i>No Data Available</i> |
| Autoignition temperature | <i>No Data Available</i> |
| Decomposition temperature | <i>No Data Available</i> |
| Viscosity | <i>Not Applicable</i> |
| Hazardous Air Pollutants | 0 % weight [<i>Test Method</i> :Calculated] |
| Molecular weight | <i>No Data Available</i> |
| Volatile Organic Compounds | 0 g/l [<i>Test Method</i> :calculated SCAQMD rule 443.1] |
| Percent volatile | 0 % weight |
| VOC Less H2O & Exempt Solvents | 0 g/l [<i>Test Method</i> :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

Strong oxidizing agents

10.6. Hazardous decomposition products

Substance

None known.

Condition

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:

May cause additional health effects (see below).

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:

May cause additional health effects (see below).

Additional Health Effects:

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

| Ingredient | CAS No. | Class Description | Regulation |
|---------------|----------|-------------------------------|---|
| Vinyl acetate | 108-05-4 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |

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 | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| Ethylene-Vinyl Acetate Polymer | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Ethylene-Vinyl Acetate Polymer | Ingestion | Rat | LD50 > 1,000 mg/kg |
| Hydrocarbon Resin | Dermal | Professional judgement | LD50 estimated to be > 5,000 mg/kg |
| Hydrocarbon Resin | Ingestion | Professional judgement | LD50 7,000 mg/kg |
| Vinyl Acetate | Dermal | Rabbit | LD50 2,320 mg/kg |
| Vinyl Acetate | Inhalation-Vapor (4 hours) | Rat | LC50 11.3 mg/l |
| Vinyl Acetate | Ingestion | Rat | LD50 2,920 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|--------------------------------|------------------------|---------------------------|
| Ethylene-Vinyl Acetate Polymer | Professional judgement | No significant irritation |
| Hydrocarbon Resin | Professional judgement | No significant irritation |
| Vinyl Acetate | Rabbit | Minimal irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|--------------------------------|------------------------|---------------------------|
| Ethylene-Vinyl Acetate Polymer | Professional judgement | No significant irritation |
| Vinyl Acetate | Rabbit | Mild irritant |

Skin Sensitization

| Name | Species | Value |
|---------------|------------|----------------|
| Vinyl Acetate | 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 |
|-------------------|----------|--|
| Hydrocarbon Resin | In Vitro | Not mutagenic |
| Vinyl Acetate | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Vinyl Acetate | In vivo | Some positive data exist, but the data are not sufficient for classification |

Carcinogenicity

| Name | Route | Species | Value |
|---------------|------------|-------------------------|--------------|
| Vinyl Acetate | Ingestion | Multiple animal species | Carcinogenic |
| Vinyl Acetate | Inhalation | Rat | Carcinogenic |

Reproductive Toxicity**Reproductive and/or Developmental Effects**

| Name | Route | Value | Species | Test Result | Exposure Duration |
|---------------|------------|--|---------|---------------------|----------------------|
| Vinyl Acetate | Ingestion | Not classified for female reproduction | Rat | NOAEL 140 mg/kg/day | 2 generation |
| Vinyl Acetate | Ingestion | Not classified for male reproduction | Rat | NOAEL 140 mg/kg/day | 2 generation |
| Vinyl Acetate | Ingestion | Not classified for development | Rat | NOAEL 700 mg/kg/day | 2 generation |
| Vinyl Acetate | Inhalation | Not classified for development | Rat | NOAEL 0.7 mg/l | during organogenesis |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|---------------|------------|-----------------------------------|--|------------------|---------------------|-------------------|
| Vinyl Acetate | Inhalation | respiratory irritation | May cause respiratory irritation | Human and animal | NOAEL Not available | |
| Vinyl Acetate | Inhalation | central nervous system depression | Some positive data exist, but the data are not sufficient for classification | | NOAEL Not available | |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|--------------------------------|------------|---|--|-------------------------|-----------------------|-------------------|
| Ethylene-Vinyl Acetate Polymer | Ingestion | liver | Not classified | Rat | NOAEL 4,000 mg/kg/day | 90 days |
| Vinyl Acetate | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Multiple animal species | NOAEL 0.2 mg/l | 104 weeks |
| Vinyl Acetate | Inhalation | heart hematopoietic system liver kidney and/or bladder | Not classified | Rat | NOAEL 2.1 mg/l | 104 weeks |
| Vinyl Acetate | Inhalation | endocrine system | Not classified | Rat | NOAEL 0.07 mg/l | 120 days |
| Vinyl Acetate | Inhalation | immune system | Not classified | Multiple animal species | NOAEL 3.5 mg/l | 3 months |
| Vinyl Acetate | Inhalation | nervous system | Not classified | Multiple animal species | NOAEL 2.1 mg/l | 104 weeks |
| Vinyl Acetate | Inhalation | gastrointestinal tract | Not classified | Mouse | NOAEL 3.5 mg/l | 3 months |
| Vinyl Acetate | Ingestion | liver | Not classified | Rat | LOAEL 684 mg/kg/day | 3 months |
| Vinyl Acetate | Ingestion | hematopoietic system nervous system kidney and/or bladder | Not classified | Rat | NOAEL 235 mg/kg/day | 104 weeks |
| Vinyl Acetate | Ingestion | immune system respiratory system | Not classified | Mouse | NOAEL 950 mg/kg/day | 3 months |
| Vinyl Acetate | Ingestion | heart | Not classified | Rat | NOAEL 235 mg/kg/day | 104 weeks |

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.

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. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

EPA Hazardous Waste Number (RCRA): Not regulated

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

Carcinogenicity

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

| <u>Ingredient</u> | <u>C.A.S. No</u> | <u>% by Wt</u> |
|-------------------|------------------|--------------------|
| Vinyl Acetate | 108-05-4 | Trade Secret < 0.5 |

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.

Document Group: 10-0380-5
Issue Date: 03/26/24

Version Number: 33.00
Supersedes Date: 05/16/23

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