



## Safety Data Sheet

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### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Hot Melt Adhesive 3738-AE, 3738-B, 3738-PG, 3738-Q, 3738-TC

##### Product Identification Numbers

ID Number	UPC	ID Number	UPC
62-3738-7230-8	00-21200-20956-7	62-3738-7232-4	00-21200-22657-1
62-3738-7233-2	00-21200-20958-1	62-3738-7234-0	00-21200-65268-4
62-3738-9132-4	00-21200-65262-2	62-3738-9330-4	00-21200-82609-2
62-3738-9335-3	00-21200-89305-6	62-3738-9339-5	00-21200-49094-1
62-3738-9531-7	00-21200-82594-1	62-3738-9830-3	00-21200-82610-8

7010366280, 7010310215, 7010366281, 7100008738, 7100020456, 7100020392, 7010330256, 7100023046, 7100009196

#### 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 and if needed, respiratory protection (see SDS Section 8).

**Response:**

IF exposed or concerned: Get medical attention.

**Storage:**

Store locked up.

**Disposal:**

Dispose of contents and container in accordance with applicable local, regional, national, and 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**

<b>Ingredient</b>	<b>C.A.S. No.</b>	<b>% by Wt</b>
Ethylene-Vinyl Acetate Polymer	24937-78-8	50 - 70
Hydrocarbon Resin	68478-07-9	20 - 30
Non-Volatile Compounds	Trade Secret*	< 15
Polyolefin Wax	8002-74-2	1 - 5
Vinyl Acetate	108-05-4	< 0.13

\*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 carbon dioxide or dry chemical extinguisher to extinguish.

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

None inherent in this product.

**Hazardous Decomposition or By-Products****Substance**

Aldehydes

Carbon monoxide

Carbon dioxide

**Condition**

During Combustion

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. 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**

Not applicable.

**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

For industrial/occupational use only. Not for consumer sale or use. 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.
Polyolefin Wax	8002-74-2	ACGIH	TWA(as fume):2 mg/m3	
Non-Volatile Compounds	Trade Secret	ACGIH	TWA(as Resin, inhalable fraction):0.001 mg/m3	Dermal/Respiratory Sensitizer

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.

For prolonged or repeated contact, gloves made from the following material(s) are recommended (breakthrough times are >4 hours): Polymer laminate

For short-term or splash contact, gloves made from the following material(s) are recommended (breakthrough times are ≤4 hours): Butyl Rubber

Any glove recommended for prolonged/repeated contact is also suitable for short-term/splash contact.

### 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

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

Physical state	Solid
Specific Physical Form:	Waxy Solid
Color	Tan
Odor	Odorless
Odor threshold	No Data Available
pH	No Data Available
Melting point/Freezing point	No Data Available
Boiling point/Initial boiling point/Boiling range	Not Applicable
Flash Point	287.8 °C [Test Method:Cleveland Open Cup] [Details:CONDITIONS: ASTM D-92-72]
Evaporation rate	Not Applicable
Flammability	Not Applicable
Flammable Limits(LEL)	Not Applicable
Flammable Limits(UEL)	Not Applicable
Vapor Pressure	Not Applicable
Relative Vapor Density	Not Applicable
Density	0.95 g/cm3
Relative Density	0.95 [Ref Std:WATER=1]
Water solubility	Nil
Solubility- non-water	No Data Available
Partition coefficient: n-octanol/ water	No Data Available
Autoignition temperature	428.3 °C
Decomposition temperature	No Data Available
Kinematic Viscosity	Not Applicable
Volatile Organic Compounds	0 g/l [Test Method:calculated SCAQMD rule 443.1]
Percent volatile	No Data Available
VOC Less H2O & Exempt Solvents	0 g/l [Test Method:calculated SCAQMD rule 443.1]
Molecular weight	No Data Available
Solids Content	100 %

Particle Characteristics	Not Applicable
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

### 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

<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:

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	Rabbit	LD50 > 3,160 mg/kg
Hydrocarbon Resin	Ingestion	Rat	LD50 > 5,000 mg/kg
Non-Volatile Compounds	Dermal	Rat	LD50 > 2,000 mg/kg
Non-Volatile Compounds	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
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 judgment	No significant irritation
Hydrocarbon Resin	similar compounds	No significant irritation
Non-Volatile Compounds	Rabbit	No significant irritation
Polyolefin Wax	Rabbit	No significant irritation
Vinyl Acetate	Rabbit	Minimal irritation

### Serious Eye Damage/Irritation

Name	Species	Value
Ethylene-Vinyl Acetate Polymer	Professional judgment	No significant irritation
Hydrocarbon Resin	similar compounds	Mild irritant
Non-Volatile Compounds	Rabbit	Mild irritant
Polyolefin Wax	Rabbit	No significant irritation
Vinyl Acetate	Rabbit	Mild irritant

### Skin Sensitization

Name	Species	Value
Non-Volatile Compounds	Human and animal	Not classified
Polyolefin Wax	Guinea pig	Not classified
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
Polyolefin Wax	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
Polyolefin Wax	Ingestion	Rat	Not carcinogenic
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
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	Not classified	Rat	NOAEL 1,500 mg/kg/day	90 days

		muscles   nervous system   eyes   kidney and/or bladder   respiratory system   vascular system				
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.

## 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

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	< 0.13

### 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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