

## **Safety Data Sheet**

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This Safety Data Sheet has been prepared in accordance with the Canadian Hazardous Products Regulations.

## **SECTION 1: Identification**

#### **1.1. Product identifier**

3M<sup>TM</sup> Hot Melt Adhesive 3762LM-PG, 3762LM-TC, 3762LM-Q, 3762LM-B, 3762LM-AE

#### **Product Identification Numbers**

62-3720-7230-6	62-3720-7232-2	62-3720-7233-0	62-3720-7234-8	62-3720-7235-5
62-3720-7236-3	62-3720-9132-2	62-3720-9133-0	62-3720-9135-5	62-3720-9136-3
62-3720-9330-2	62-3720-9331-0	62-3720-9335-1	62-3720-9336-9	62-3720-9337-7
62-3720-9339-3	62-3720-9349-2	62-3720-9395-5	62-3720-9399-7	62-3720-9531-5
62-3720-9830-1	62-3720-9831-9	H0-0016-7894-7	H0-0020-9585-1	JS-3000-5032-0
JS-3000-5043-7	JS-3000-5050-2			

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

#### Intended Use

Hot melt adhesive.

**Specific Use** For bonding heat sensitive materials.

#### **Restrictions on use**

Not applicable

#### 1.3. Supplier's details

Company:	3M Canada Company	
Division:	Industrial Adhesives and Tapes Division	
Address:	1840 Oxford Street East, Post Office Box 5757, London, Ontario	N6A 4T1
Telephone:	(800) 364-3577	
Website:	www.3M.ca	

#### **1.4. Emergency telephone number**

Medical Emergency Telephone:1-800-3M HELPS / 1-800-364-3577; Transportation Emergency Telephone (CANUTEC): (613) 996-6666

## **SECTION 2: Hazard identification**

#### 2.1. Classification of the substance or mixture

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.

#### 2.3. Other hazards

May cause thermal burns.

## **SECTION 3: Composition/information on ingredients**

This material is a mixture.

Ingredient	C.A.S. No.	% by Wt	Common Name
Ethylene-Vinyl Acetate Polymer	24937-78-8	40 - 60	Acetic acid ethenyl ester, polymer with ethene
Hydrogenated Hydrocarbon Resin	68132-00-3	20 - 40	Naphtha (petroleum), light steam-cracked, debenzenized, polymers, hydrogenated
Hydrocarbon Resin	68478-07-9	1 - 20	Naphtha, petroleum, light steam-cracked arom., piperylene conc., polymd.
Non-volatile compounds	Trade Secret	< 10	Not Applicable
Polyethylene	9002-88-4	< 10	Ethene, homopolymer
Polyolefin Wax	8002-74-2	< 10	Paraffin waxes and Hydrocarbon waxes
2,6-Di-tert-butyl-p-cresol	128-37-0	< 0.25	Phenol, 2,6-bis(1,1-dimethylethyl)-4- methyl-
VINYL ACETATE	108-05-4	0.05 - 0.15	Acetic acid ethenyl ester

#### 3M<sup>™</sup> Hot Melt Adhesive 3762LM-PG, 3762LM-TC, 3762LM-Q, 3762LM-B, 3762LM-AE

Non-volatile compounds is a non-hazardous Trade Secret material according to WHMIS criteria.

## **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	<b><u>Condition</u></b>
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion

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

Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA). 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. For industrial or professional 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/vapours/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. Use personal protective equipment (gloves, respirators, etc.) as required.

#### 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
VINYL ACETATE	108-05-4	ACGIH	TWA:10 ppm;STEL:15 ppm	
2,6-Di-tert-butyl-p-cresol	128-37-0	ACGIH	TWA(inhalable fraction and	
			vapor):2 mg/m3	
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 TWA: Time-Weighted-Average STEL: Short Term Exposure Limit CEIL: Ceiling

#### 8.2. Exposure controls

#### 8.2.1. Engineering controls

Provide appropriate local exhaust when product is heated. 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/vapours/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 vapours and particulates

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

#### Thermal hazards

Wear heat insulating gloves - 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			
r J J M				
Colour	Off-White			
Odour	Mild Resinous			
Odour threshold	No Data Available			
рН	Not Applicable			
Melting point/Freezing point	96.7 °C [Test Method:Ring and Ball]			
Boiling point	Not Applicable			
Flash Point	293.3 °C			
Evaporation rate	Not Applicable			
Flammability	Not Applicable			
Flammable Limits(LEL)	No Data Available			
Flammable Limits(UEL)	No Data Available			
Vapour Pressure	Not Applicable			
Vapour Density and/or Relative Vapour Density				
Density	1.01 g/cm3			
Relative density	1.01 [ <i>Ref Std</i> :WATER=1]			
Water solubility	Nil			
Solubility- non-water	No Data Available			
Partition coefficient: n-octanol/ water	No Data Available			
Autoignition temperature	No Data Available			
Decomposition temperature	No Data Available			
Kinematic Viscosity	Not Applicable			
Volatile Organic Compounds	0 g/l [Test Method:calculated SCAQMD rule 443.1]			
Percent volatile	Approximately 0 % weight			
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

## **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

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

## 3M<sup>™</sup> Hot Melt Adhesive 3762LM-PG, 3762LM-TC, 3762LM-Q, 3762LM-B, 3762LM-AE

Ethylene-Vinyl Acetate Polymer	Dermal		LD50 estimated to be > 5,000 mg/kg
Ethylene-Vinyl Acetate Polymer	Ingestion	Rat	LD50 > 1,000 mg/kg
Hydrogenated Hydrocarbon Resin	Dermal		LD50 estimated to be > 5,000 mg/kg
Hydrogenated Hydrocarbon Resin	Ingestion		LD50 estimated to be > 5,000 mg/kg
Non-volatile compounds	Dermal	Professio nal judgeme nt	LD50 estimated to be > 5,000 mg/kg
Non-volatile compounds	Ingestion	Professio nal judgeme nt	LD50 7,000 mg/kg
Hydrocarbon Resin	Dermal	Rabbit	LD50 > 3,160 mg/kg
Hydrocarbon Resin	Ingestion	Rat	LD50 > 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
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
2,6-Di-tert-butyl-p-cresol	Dermal	Rat	LD50 > 2,000 mg/kg
2,6-Di-tert-butyl-p-cresol	Ingestion	Rat	LD50 > 2,930 mg/kg

ATE = acute toxicity estimate

## Skin Corrosion/Irritation

Name	Species	Value
Ethylene-Vinyl Acetate Polymer	Professio nal judgeme	No significant irritation
Hydrogenated Hydrocarbon Resin	nt Professio	No significant irritation
	nal judgeme nt	
Hydrocarbon Resin	similar compoun ds	No significant irritation
Non-volatile compounds	Professio nal judgeme nt	No significant irritation
Polyethylene	Professio nal judgeme nt	No significant irritation
Polyolefin Wax	Rabbit	No significant irritation
VINYL ACETATE	Rabbit	Minimal irritation
2,6-Di-tert-butyl-p-cresol	Human and animal	Minimal irritation

## Serious Eye Damage/Irritation

Name	Species	Value
Ethylene-Vinyl Acetate Polymer	Professio	No significant irritation
	nal	
	judgeme	
	nt	
Hydrogenated Hydrocarbon Resin	Professio	No significant irritation
	nal	

	judgeme nt	
Hydrocarbon Resin	similar	Mild irritant
	compoun	
	ds	
Polyolefin Wax	Rabbit	No significant irritation
VINYL ACETATE	Rabbit	Mild irritant
2,6-Di-tert-butyl-p-cresol	Rabbit	Mild irritant

#### Skin Sensitization

Name	Species	Value
Polyolefin Wax	Guinea	Not classified
	pig	
VINYL ACETATE	Guinea	Not classified
	pig	
2,6-Di-tert-butyl-p-cresol	Human	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
Non-volatile compounds	In Vitro	Not mutagenic
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
2,6-Di-tert-butyl-p-cresol	In Vitro	Not mutagenic
2,6-Di-tert-butyl-p-cresol	In vivo	Not mutagenic

#### Carcinogenicity

Name	Route	Species	Value
Polyethylene	Not	Multiple	Some positive data exist, but the data are not
	Specified	animal	sufficient for classification
	_	species	
Polyolefin Wax	Ingestion	Rat	Not carcinogenic
VINYL ACETATE	Ingestion	Multiple	Carcinogenic
		animal	
		species	
VINYL ACETATE	Inhalation	Rat	Carcinogenic
2,6-Di-tert-butyl-p-cresol	Ingestion	Multiple	Some positive data exist, but the data are not
	_	animal	sufficient for classification
		species	

# **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 organogenesi s
2,6-Di-tert-butyl-p-cresol	Ingestion	Not classified for female reproduction	Rat	NOAEL 500 mg/kg/day	2 generation
2,6-Di-tert-butyl-p-cresol	Ingestion	Not classified for male reproduction	Rat	NOAEL 500	2 generation

				mg/kg/day	
2,6-Di-tert-butyl-p-cresol	Ingestion	Not classified for development	Rat	NOAEL 100 mg/kg/day	2 generation

## 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   muscles   nervous system   eyes   kidney and/or bladder   respiratory system   vascular system	Not classified	Rat	NOAEL 1,500 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
2,6-Di-tert-butyl-p-cresol	Ingestion	liver	Some positive data exist, but the	Rat	NOAEL 250	28 days

			data are not sufficient for classification		mg/kg/day	
2,6-Di-tert-butyl-p-cresol	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 500 mg/kg/day	2 generation
2,6-Di-tert-butyl-p-cresol	Ingestion	blood	Not classified	Rat	LOAEL 420 mg/kg/day	40 days
2,6-Di-tert-butyl-p-cresol	Ingestion	endocrine system	Not classified	Rat	NOAEL 25 mg/kg/day	2 generation
2,6-Di-tert-butyl-p-cresol	Ingestion	heart	Not classified	Mouse	NOAEL 3,480 mg/kg/day	10 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**

No data available.

## **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**

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's transportation classifications are based on product formulation, packaging, 3M policies and 3M's 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 Canadian 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. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **Global inventory status**

Contact 3M for more information. The components of this material are in compliance with the provisions of the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and

Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. 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.

## **SECTION 16: Other information**

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.

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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#### 3M Canada SDSs are available at www.3M.ca