



## Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

3M™ Hot Melt Adhesive 3748-PG, 3748-TC, 3748-Q, 3748-B

#### Product Identification Numbers

62-3748-9132-3      62-3748-9330-3      62-3748-9830-2

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### Identified uses

Hot-melt adhesive

#### 1.3. Details of the supplier of the substance or mixture

**Address:** 3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT.  
**Telephone:** +44 (0)1344 858 000  
**E Mail:** tox.uk@mmm.com  
**Website:** www.3M.com/uk

#### 1.4. Emergency telephone number

+44 (0)1344 858 000

### SECTION 2: Hazard identification

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

CLP REGULATION (EC) No 1272/2008

##### CLASSIFICATION:

This material is not classified as hazardous according to Regulation (EC) No. 1272/2008, as amended, on classification, labelling, and packaging of substances and mixtures.

#### Dangerous substances(67/548/EEC)/preparations(1999/45/EC) directive

This product is not classified as hazardous according to EU Directive 1999/45/EC.

#### 2.2. Label elements

CLP REGULATION (EC) No 1272/2008

**3M™ Hot Melt Adhesive 3748-PG, 3748-TC, 3748-Q, 3748-B**

Not applicable

**Dangerous substances(67/548/EEC)/preparations(1999/45/EC) directive**

Not applicable

**2.3. Other hazards**

May cause thermal burns.

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

<b>Ingredient</b>	<b>CAS Nbr</b>	<b>EU Inventory</b>	<b>% by Wt</b>	<b>Classification</b>
Polypropylene	9003-07-0		15 - 40	
Hydrocarbon Resin - N.J.T.S. Reg. No. 04499600-7064	Trade Secret		10 - 30	
Styrene-Butadiene Polymer - N.J.T.S. Reg. No. 04499600-7063	Trade Secret		10 - 30	
Propene, polymer with ethene	9010-79-1		1 - 25	
Polyethylene	9002-88-4		1 - 25	
Non-Hazardous Additives	None		5 - 15	

Please see section 16 for the full text of any R phrases and H statements referred to in this section

Please refer to section 15 for the any applicable Notas that have been applied to the above components

For information on ingredient occupational exposure limits or PBT or vPvB status, see sections 8 and 12 of this SDS

**SECTION 4: First aid measures****4.1. Description of first aid measures****Inhalation**

Remove person to fresh air. If you feel unwell, 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**

No need for first aid is anticipated.

**4.2. Most important symptoms and effects, both acute and delayed**

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. Extinguishing media**

Material will not burn. Use a fire fighting agent suitable for the surrounding fire.

## 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.

Oxides of nitrogen.

### Condition

During combustion.

During combustion.

During combustion.

## 5.3. Advice for fire-fighters

No special protective actions for fire-fighters are anticipated.

# SECTION 6: Accidental release measures

## 6.1. Personal precautions, protective equipment and emergency procedures

Ventilate the area with fresh air.

## 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.

## 6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

# SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Avoid skin contact with hot material. For industrial or professional use only.

## 7.2. Conditions for safe storage including any incompatibilities

No special storage requirements.

## 7.3. Specific end use(s)

See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

# 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.

<b>Ingredient</b>	<b>CAS Nbr</b>	<b>Agency</b>	<b>Limit type</b>	<b>Additional comments</b>
Non-Hazardous Additives	None	UK HSC	TWA(as fume):2 mg/m <sup>3</sup> ;STEL(as fume):6 mg/m <sup>3</sup>	

UK HSC : UK Health and Safety Commission

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

**Biological limit values**

No biological limit values exist for any of the components listed in Section 3 of this safety data sheet.

**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/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

**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**

Physical state	Solid.
Specific Physical Form:	Waxy Solid
Appearance/Odour	off-white, mild resinous odour
Odour threshold	<i>No data available.</i>
pH	<i>Not applicable.</i>
Boiling point/boiling range	<i>Not applicable.</i>
Melting point	<i>No data available.</i>
Flammability (solid, gas)	Not classified
Explosive properties	Not classified
Oxidising properties	Not classified
Flash point	280 °C [ <i>Test Method:</i> Cleveland Open Cup]
Autoignition temperature	330 °C
Flammable Limits(LEL)	<i>Not applicable.</i>
Flammable Limits(UEL)	<i>Not applicable.</i>
Relative density	0.92 - 0.94 [ <i>Ref Std:</i> WATER=1]
Water solubility	Nil
Solubility- non-water	<i>No data available.</i>
Partition coefficient: n-octanol/water	<i>No data available.</i>
Evaporation rate	<i>Not applicable.</i>
Vapour density	Nil
Decomposition temperature	<i>No data available.</i>
Viscosity	4 - 6 Pa-s [ <i>@ 190 °C</i> ]
Density	0.92 - 0.94 g/cm3

## 9.2. Other information

Hazardous air pollutants	0 % weight [ <i>Test Method</i> :Calculated]
Volatile organic compounds (VOC)	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 polymerisation 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 agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 11 are based on UN GHS calculation rules and classifications derived from 3M assessments.

### 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.

**3M™ Hot Melt Adhesive 3748-PG, 3748-TC, 3748-Q, 3748-B****Ingestion**

No health effects are expected.

**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
Polypropylene	Dermal		LD50 estimated to be > 5,000 mg/kg
Polypropylene	Ingestion	Mouse	LD50 > 8,000 mg/kg
Hydrocarbon Resin - N.J.T.S. Reg. No. 04499600-7064	Dermal	Rat	LD50 > 2,000 mg/kg
Hydrocarbon Resin - N.J.T.S. Reg. No. 04499600-7064	Ingestion	Rat	LD50 > 5,000 mg/kg
Propene, polymer with ethene	Dermal	Rabbit	LD50 > 2,000 mg/kg
Propene, polymer with ethene	Ingestion	Rat	LD50 > 5,000 mg/kg
Styrene-Butadiene Polymer - N.J.T.S. Reg. No. 04499600-7063	Ingestion		LD50 estimated to be > 5,000 mg/kg
Polyethylene	Dermal		LD50 estimated to be > 5,000 mg/kg
Non-Hazardous Additives	Dermal	Rabbit	LD50 > 5,000 mg/kg
Non-Hazardous Additives	Ingestion	Rat	LD50 > 5,000 mg/kg
Polyethylene	Ingestion	Rat	LD50 > 2,000 mg/kg

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

Name	Species	Value
Polypropylene	Human and animal	No significant irritation
Propene, polymer with ethene	Rabbit	No significant irritation
Polyethylene		No significant irritation

**Serious Eye Damage/Irritation**

Name	Species	Value
Polypropylene		No significant irritation
Propene, polymer with ethene	Rabbit	No significant irritation

**Skin Sensitisation**

Name	Species	Value
Polypropylene	Human and animal	Not sensitizing

**Respiratory Sensitisation**

Name	Species	Value
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**Germ Cell Mutagenicity**

Name	Route	Value
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**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

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

Name	Route	Value	Species	Test result	Exposure Duration
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**Target Organ(s)****Specific Target Organ Toxicity - single exposure**

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
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**Specific Target Organ Toxicity - repeated exposure**

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
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**Aspiration Hazard**

Name	Value
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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

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 12 are based on UN GHS calculation rules and classifications derived from 3M assessments.

**12.1. Toxicity**

No product test data available.

Material	CAS Nbr	Organism	Type	Exposure	Test endpoint	Test result
Hydrocarbon Resin - N.J.T.S. Reg. No. 04499600-7064	Trade Secret		Data not available or insufficient for classification			
Propene, polymer with ethene	9010-79-1		Data not available or insufficient for classification			
Polyethylene	9002-88-4		Data not available or insufficient for classification			
Polypropylene	9003-07-0		Data not available or insufficient for classification			
Styrene-Butadiene Polymer - N.J.T.S. Reg. No. 04499600-7063	Trade Secret		Data not available or insufficient for classification			
Non-Hazardous Additives	None	Green algae	Experimental	96 hours	EC50	>1,000 mg/l

**3M™ Hot Melt Adhesive 3748-PG, 3748-TC, 3748-Q, 3748-B**

Non-Hazardous Additives	None	Water flea	Experimental	48 hours	EC50	>10,000 mg/l
Non-Hazardous Additives	None	Rainbow trout	Experimental	96 hours	LC50	>1,000 mg/l

**12.2. Persistence and degradability**

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Hydrocarbon Resin - N.J.T.S. Reg. No. 04499600-7064	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Propene, polymer with ethene	9010-79-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Polyethylene	9002-88-4	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Polypropylene	9003-07-0	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Styrene-Butadiene Polymer - N.J.T.S. Reg. No. 04499600-7063	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Non-Hazardous Additives	None	Estimated Biodegradation	28 days	BOD	40 % weight	OECD 301F - Manometric respirometry

**12.3 : Bioaccumulative potential**

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Hydrocarbon Resin - N.J.T.S. Reg. No. 04499600-7064	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Propene, polymer with ethene	9010-79-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Polyethylene	9002-88-4	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Polypropylene	9003-07-0	Data not available or	N/A	N/A	N/A	N/A



**3M™ Hot Melt Adhesive 3748-PG, 3748-TC, 3748-Q, 3748-B**

		insufficient for classification				
Styrene-Butadiene Polymer - N.J.T.S. Reg. No. 04499600-7063	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Non-Hazardous Additives	None	Estimated Bioconcentration		Log Kow	10.2	Estimated: Octanol-water partition coefficient

**12.4. Mobility in soil**

Please contact manufacturer for more details

**12.5. Results of the PBT and vPvB assessment**

No information available at this time, contact manufacturer for more details

**12.6. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

See Section 11.1 Information on toxicological effects

This product has been classified as a non-hazardous waste. 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.

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of 3M, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/EC and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are complied with and always use a licensed waste contractor.

**EU waste code (product as sold)**

08 04 10 Waste adhesives and sealants other than those mentioned in 08 04 09  
20 01 28 Paint, inks, adhesives and resins other than those mentioned in 20 01 27

**SECTION 14: Transportation information**

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Not hazardous for transportation

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Carcinogenicity**

**3M™ Hot Melt Adhesive 3748-PG, 3748-TC, 3748-Q, 3748-B**

<b><u>Ingredient</u></b>	<b><u>CAS Nbr</u></b>	<b><u>Classification</u></b>	<b><u>Regulation</u></b>
Polyethylene	9002-88-4	Gr. 3: Not classifiable	International Agency for Research on Cancer
Polypropylene	9003-07-0	Gr. 3: Not classifiable	International Agency for Research on Cancer

**Global inventory status**

Contact 3M for more information. The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of the Korean Toxic Chemical 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 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. The components of this product are in compliance with the chemical notification requirements of TSCA.

**15.2. Chemical Safety Assessment**

Not applicable

**SECTION 16: Other information****Revision information:**

Revision Changes:

Section 1: Product name information was modified.

Page Heading: Product name information was modified.

Section 3: Composition/ Information of ingredients table information was modified.

Section 12: Component ecotoxicity information information was modified.

Section 12: Persistence and Degradability information information was modified.

Section 12: Bioaccumulative potential information information was modified.

Section 8: Occupational exposure limit table information was modified.

OEL Reg Agency Desc information was modified.

Telephone header information was modified.

Company Telephone information was modified.

Section 11: Acute Toxicity table information was modified.

Section 11: Serious Eye Damage/Irritation Table information was modified.

Section 11: Skin Corrosion/Irritation Table information was modified.

Section 5: Fire - Extinguishing media information information was modified.

Section 5: Fire - Advice for fire fighters information information was modified.

Label: CLP Classification - Header information was added.

Label: CLP Classification information was added.

Section 8: Occupational exposure limit table information was added.

Section 2: 2.2 & 2.3. CLP REGULATION heading information was added.

Not applicable information was added.

Not applicable information was added.

Section 12: Classification Warning information was added.

Section 11: Classification disclaimer information was added.

Safety phrase information was deleted.

Section 2: Contains heading information was deleted.

Section 2: Safety phrases heading information was deleted.

Section 2: Risk phrases heading information was deleted.

Section 2: Label ingredient information information was deleted.

Section 2: Special provisions concerning the labelling of certain substances heading information was deleted.

Section 2: Additional label requirements phrase information was deleted.

Section 11: Classification disclaimer information was deleted.

Section 12: Classification Warning information was deleted.

Risk phrase - None information was deleted.

Label: Graphic information was deleted.

Section 02: Graphic information information was deleted.

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

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