



Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the New Zealand, Hazardous Substances (Safety Data Sheets) Notice 2017.

SECTION 1: Identification

1.1. Product identifier

3M(TM) Hot Melt Adhesive 3738-Q

Product Identification Numbers

62-3738-9132-4

1.2. Recommended use and restrictions on use

Recommended use

Hot melt adhesive.

For Industrial or Professional use only

1.3. Supplier's details

| | |
|-------------------|--|
| Address: | 3M New Zealand Ltd, 94 Apollo Drive, Rosedale 0632, Auckland |
| Telephone: | (09) 477 4040 |
| E Mail: | innovation@nz.mmm.com |
| Website: | 3m.co.nz |

1.4. Emergency telephone number

24 hr Medical Emergency, National Poisons Centre, 0800 764 766 (0800 POISON)

SECTION 2: Hazard identification

Classified as hazardous in accordance with the relevant criteria of the HSNO Act 1996, the Hazardous Substances (Classification) Notice 2017 and Hazardous Substances (Minimum Degrees of Hazard) Notice 2017. Refer to Section 14 of this Safety Data Sheet for product Dangerous Goods Classification.

2.1. Classification of the substance or mixture

| GHS | HSNO |
|--------------------------------------|---------------------------------|
| Chronic Aquatic Toxicity: Category 3 | 9.1C Aquatic toxicity (chronic) |
| Acute Aquatic Toxicity: Category 3 | 9.1D Aquatic toxicity (acute) |

2.2. Label elements

3M(TM) Hot Melt Adhesive 3738-AE, 3738-B, 3738-PG, 3738-Q, 3738-TC**SIGNAL WORD**

Not applicable.

Symbols:

Not applicable.

HAZARD STATEMENTS:

H412 Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS**Disposal:**

P501 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

| Ingredient | CAS Nbr | % by Weight |
|--------------------------------|--------------|-------------|
| Ethylene-Vinyl Acetate Polymer | 24937-78-8 | 50 - 60 |
| Hydrocarbon resin | 68478-07-9 | 20 - 30 |
| Synthetic Rosin Resin | Trade Secret | 5 - 15 |
| Polyolefin wax | Mixture | 1 - 5 |

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. 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.

5.4. Hazchem code: Not applicable.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ventilate the area with fresh air. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

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

Refer to Section 15 - Controls for more information

7.1. Precautions for safe handling

Avoid skin contact with hot material. For industrial/occupational use only. Not for consumer sale or use. Avoid release to the environment. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.)

7.2. Conditions for safe storage including any incompatibilities

Store away from oxidising agents.

7.3. Certified handler

Not required

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 | CAS Nbr | Agency | Limit type | Additional comments |
|----------------|---------|-------------|-------------------------|---------------------|
| Polyolefin wax | Mixture | ACGIH | TWA(as fume):2 mg/m3 | |
| Polyolefin wax | Mixture | New Zealand | TWA(as fume)(8 hours):2 | |

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

WES mg/m³

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

New Zealand WES : New Zealand Workplace Exposure Standards.

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

ppm: parts per million

mg/m³: milligrams per cubic metre

CELL: 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/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.

Refer AS/NZS 1336 - Recommended practices for occupational eye protection and for performance specifications AS/NZS 1337, Parts 1 - 6 - Personal eye-protection.

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 |
| Colour | Tan |
| Odour | Odourless |
| Odour 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 (solid, gas) | Not classified |
| Flammable Limits(LEL) | Not applicable. |
| Flammable Limits(UEL) | Not applicable. |

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

| | |
|---|--|
| Vapour pressure | <i>Not applicable.</i> |
| Vapor Density and/or Relative Vapor Density | <i>Not applicable.</i> |
| Density | 0.95 g/cm ³ |
| Relative density | 0.95 [Ref Std: WATER=1] |
| Water solubility | Nil |
| Solubility- non-water | <i>No data available.</i> |
| Partition coefficient: n-octanol/water | <i>No data available.</i> |
| Autoignition temperature | 428.3 °C |
| Decomposition temperature | <i>No data available.</i> |
| Viscosity/Kinematic Viscosity | <i>Not applicable.</i> |
| Volatile organic compounds (VOC) | 0 g/l [Test Method:calculated SCAQMD rule 443.1] |
| Percent volatile | |
| VOC less H ₂ O & exempt solvents | 0 g/l [Test Method:calculated SCAQMD rule 443.1] |
| Molecular weight | <i>No data available.</i> |
| Solids content | 100 % |

Nanoparticles

This material does not contain nanoparticles.

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 polymerisation will not occur.

10.4 Conditions to avoid

None known.

10.5 Incompatible materials

Strong oxidising agents.

10.6 Hazardous decomposition products**Substance****Condition**

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 labelling, 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**

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

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 | 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 |
| Synthetic Rosin Resin | Dermal | Rabbit | LD50 > 2,500 mg/kg |
| Synthetic Rosin Resin | Ingestion | Rat | LD50 > 31,500 mg/kg |
| Polyolefin wax | Dermal | Rat | LD50 > 5,000 mg/kg |
| Polyolefin wax | Ingestion | Rat | LD50 > 5,000 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|--------------------------------|------------------------|---------------------------|
| Ethylene-Vinyl Acetate Polymer | Professional judgement | No significant irritation |
| Hydrocarbon resin | similar compounds | No significant irritation |
| Synthetic Rosin Resin | Rabbit | Minimal irritation |
| Polyolefin wax | Rabbit | No significant irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|--------------------------------|------------------------|---------------------------|
| Ethylene-Vinyl Acetate Polymer | Professional judgement | No significant irritation |
| Hydrocarbon resin | similar compounds | Mild irritant |
| Synthetic Rosin Resin | Rabbit | Moderate irritant |
| Polyolefin wax | Rabbit | No significant irritation |

Sensitisation:**Skin Sensitisation**

| Name | Species | Value |
|-----------------------|------------|----------------|
| Synthetic Rosin Resin | Guinea pig | Not classified |
| Polyolefin wax | Guinea pig | Not classified |

Respiratory Sensitisation

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 |

Carcinogenicity

| Name | Route | Species | Value |
|-----------------------|-----------|---------|------------------|
| Synthetic Rosin Resin | Ingestion | Rat | Not carcinogenic |
| Polyolefin wax | Ingestion | Rat | Not carcinogenic |

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

For the component/components, either no data are currently available or the data are not sufficient for classification.

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 |
|--------------------------------|-----------|--|--|---------|-----------------------|-------------------|
| Ethylene-Vinyl Acetate Polymer | Ingestion | liver | Not classified | Rat | NOAEL 4,000 mg/kg/day | 90 days |
| Synthetic Rosin Resin | Ingestion | hematopoietic system liver kidney and/or bladder heart endocrine system bone marrow immune system nervous system respiratory system | Not classified | Rat | NOAEL 1,000 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 | Not classified | Rat | NOAEL 1,500 mg/kg/day | 90 days |

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

| | | | | | | |
|--|--|-----------------------------|--|--|--|--|
| | | system vascular system | | | | |
|--|--|-----------------------------|--|--|--|--|

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

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity**Ecotoxic to the aquatic environment.**

Acute Aquatic Toxicity: Category 3 (HSNO 9.1D Aquatic toxicity)

Chronic Aquatic Toxicity: Category 3 (HSNO 9.1C Aquatic toxicity)

No product test data available.

| Material | CAS Number | Organism | Type | Exposure | Test endpoint | Test result |
|--------------------------------|--------------|----------------|---|----------|---------------|--------------|
| Ethylene-Vinyl Acetate Polymer | 24937-78-8 | | Data not available or insufficient for classification | | | |
| Hydrocarbon resin | 68478-07-9 | | Data not available or insufficient for classification | | | |
| Synthetic Rosin Resin | Trade Secret | Fathead minnow | Estimated | 96 hours | LC50 | 1.7 mg/l |
| Synthetic Rosin Resin | Trade Secret | Green algae | Estimated | 72 hours | EC50 | 39.6 mg/l |
| Synthetic Rosin Resin | Trade Secret | Water flea | Estimated | 48 hours | EC50 | 1.6 mg/l |
| Synthetic Rosin Resin | Trade Secret | Green algae | Estimated | 72 hours | NOEC | 6.25 mg/l |
| Polyolefin wax | Mixture | Green algae | Estimated | 96 hours | EC50 | >1,000 mg/l |
| Polyolefin wax | Mixture | Rainbow trout | Estimated | 96 hours | LC50 | >1,000 mg/l |
| Polyolefin wax | Mixture | Water flea | Estimated | 48 hours | EC50 | >10,000 mg/l |

12.2. Persistence and degradability

| Material | CAS Number | Test type | Duration | Study Type | Test result | Protocol |
|--------------------------------|--------------|-----------------------------------|----------|---------------|-------------|----------------------|
| Ethylene-Vinyl Acetate Polymer | 24937-78-8 | Data not available - insufficient | | | N/A | |
| Hydrocarbon resin | 68478-07-9 | Data not available - insufficient | | | N/A | |
| Synthetic Rosin | Trade Secret | Estimated | 28 days | CO2 evolution | 56 % weight | OECD 301B - Modified |

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

| | | | | | | |
|----------------|---------|--------------------------|---------|-----|-------------|-------------------------------------|
| Resin | | Biodegradation | | | | sturm or CO2 |
| Polyolefin wax | Mixture | Estimated Biodegradation | 28 days | BOD | 40 % weight | OECD 301F - Manometric respirometry |

12.3 : Bioaccumulative potential

| Material | CAS Number | Test type | Duration | Study Type | Test result | Protocol |
|--------------------------------|--------------|---|----------|------------------------|-------------|--|
| Ethylene-Vinyl Acetate Polymer | 24937-78-8 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Hydrocarbon resin | 68478-07-9 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Synthetic Rosin Resin | Trade Secret | Estimated Bioconcentration | | Bioaccumulation factor | ≤32 | Estimated: Bioconcentration factor |
| Polyolefin wax | Mixture | Estimated Bioconcentration | | Log Kow | 10.2 | Estimated: Octanol-water partition coefficient |

12.4. Mobility in soil

Please contact manufacturer for more details

12.5 Other adverse effects

No information available.

SECTION 13: Disposal considerations**13.1. Disposal methods**

In accordance with the Hazardous Substances (Disposal) Notice 2017 and the relevant criteria of the HSNO Act 1996.

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.

Packaging (that may or may not contain any residual substance) may be lawfully disposed of by householders or other consumers through public or commercial waste collection services.

SECTION 14: Transport Information**New Zealand Land Transport Rule: Dangerous Goods - Road/Rail Transport**

UN No.: Not applicable.

Proper Shipping Name: Not applicable.

Class/Division: Not applicable.

Sub Risk: Not applicable.

Packing Group: Not applicable.

Hazchem Code: Not applicable.

IERG: Not applicable.

International Air Transport Association (IATA) - Air Transport

UN No.: Not applicable.

Proper Shipping Name: Not applicable.

Class/Division: Not applicable.

Sub Risk: Not applicable.

Packing Group: Not applicable.

International Maritime Dangerous Goods Code (IMDG) - Marine Transport

UN No.: Not applicable.

Proper Shipping Name: Not applicable.

Class/Division: Not applicable.

Sub Risk: Not applicable.

Packing Group: Not applicable.

Marine Pollutant: Not applicable.

SECTION 15: Regulatory information

HSNO Approval number HSR002670
Group standard name Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2017
HSNO Hazard classification Refer to Section 2: Hazard identification

NZ Inventory of Chemicals (NZIoC) Status

All applicable chemical ingredients in this material are in compliance with NZIoC listing requirements.

Controls in accordance with the Health and Safety at Work (Hazardous Substances) Regulations 2017

| | |
|---------------------------------|---|
| Certified handler | Not required |
| Location Compliance Certificate | Not required |
| Hazardous atmosphere zone | Not required |
| Fire extinguishers | Not required |
| Emergency response plan | 1,000 L or 1,000 kg (for a HSNO 6.1D, 6.5A, 6.5B, 9.1B or 9.1C substance); or 10,000 L or 10,000 kg (for a HSNO 6.6A, 6.8A, 6.9A, 8.3A, 9.1D substance) |
| Secondary containment | 1,000 L or 1,000 kg (for a HSNO 6.1D, 6.5A, 6.5B, 9.1B or 9.1C substance); or 10,000 L or 10,000 kg (for a HSNO 6.6A, 6.8A, 6.9A, 8.3A, 9.1D substance) |
| Tracking | Not required |
| Warning signage | 1,000 L or 1,000 kg (for a HSNO 8.3A, 9.1B or 9.1C substance); or 10,000 L or 10,000 kg (for a HSNO 6.1D or 9.1D substance) |

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

Complete document review.

| | | | |
|------------------------|------------|-------------------------|------------|
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Key to abbreviations and acronyms

GHS means the Globally Harmonised System of Classification and Labelling of Chemicals, 5th revised edition 2013

HSNO means Hazardous Substances and New Organisms Act 1996

The information in this Safety Data Sheet (SDS) is believed to be correct as of the date of issue. TO THE EXTENT

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