



## Safety Data Sheet

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|                        |            |                         |            |
|------------------------|------------|-------------------------|------------|
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This Safety Data Sheet has been prepared in accordance with the New Zealand, Hazardous Substances and New Organisms Act 1996 (HSNO Act) and Regulations, as amended.

### SECTION 1: Identification

#### 1.1. Product identifier

3M Super 77 Multipurpose Adhesive

#### Product Identification Numbers

70-0050-8170-1      70-0051-1098-9      70-0068-5097-1      70-0070-0613-6

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

##### Recommended use

Adhesive

#### 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

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

Classified as hazardous according to the New Zealand, Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001 as amended.

Classified as a Dangerous Good according to; New Zealand, Land Transport Rule: Dangerous Goods 2005 (Rule 45001/1) as amended, NZS 5433:2012 Transport of Dangerous Goods on Land, UN Model Regulations on the Transport of Dangerous Goods, International Maritime Dangerous Goods Code and IATA Dangerous Goods Regulations.

#### HSNO classification

2.1.2A Flammable aerosol

6.3B Irritating to the skin

- 6.4A Irritating to the eye  
6.8B Suspected human reproductive or developmental toxicant  
6.9A Toxic to human target organs/systems  
9.1D Aquatic toxicity

## 2.2. Label elements

### SIGNAL WORD

DANGER!

### Symbols:

Flame | Health Hazard | Exclamation mark |

### Pictograms



### HAZARD STATEMENTS:

|      |                                                      |
|------|------------------------------------------------------|
| H222 | Extremely flammable aerosol.                         |
| H319 | Causes serious eye irritation.                       |
| H316 | Causes mild skin irritation.                         |
| H361 | Suspected of damaging fertility or the unborn child. |
| H370 | Causes damage to organs:<br>cardiovascular system    |
| H401 | Toxic to aquatic life.                               |

### PRECAUTIONARY STATEMENTS

#### Prevention:

|      |                                                                    |
|------|--------------------------------------------------------------------|
| P210 | Keep away from heat/sparks/open flames/hot surfaces. - No smoking. |
| P211 | Do not spray on an open flame or other ignition source.            |
| P251 | Do not pierce or burn, even after use.                             |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray.                   |
| P281 | Use personal protective equipment as required.                     |

#### Response:

|                    |                                                                                                                                  |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------|
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P332 + P313        | If skin irritation occurs: Get medical advice/attention.                                                                         |

#### Storage:

|             |                                                                      |
|-------------|----------------------------------------------------------------------|
| P410 + P412 | Protect from sunlight. Do not expose to temperatures exceeding 50oC. |
| P405        | Store locked up.                                                     |

#### Disposal:

|      |                                                                                                                |
|------|----------------------------------------------------------------------------------------------------------------|
| P501 | Dispose of contents/container in accordance with applicable local/regional/national/international regulations. |
|------|----------------------------------------------------------------------------------------------------------------|

## 2.3. Other hazards

Contains gas under pressure; may explode if heated.

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May cause drowsiness or dizziness.

### SECTION 3: Composition/information on ingredients

| Ingredient                              | CAS Nbr      | % by Weight |
|-----------------------------------------|--------------|-------------|
| Acetone                                 | 67-64-1      | 20 - 30     |
| Naphtha (petroleum), hydrotreated light | 64742-49-0   | 20 - 30     |
| Non-Volatile Components                 | Trade Secret | 20 - 30     |
| Propane                                 | 74-98-6      | 15 - 25     |
| Glycerol ester                          | Trade Secret | 5 - 10      |
| Cyclohexane                             | 110-82-7     | 4 - 8       |
| Polyterpene resin                       | Trade Secret | < 5         |

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### Inhalation

Remove person to fresh air. Get medical attention.

##### Skin contact

Wash with soap and water. If signs/symptoms develop, get medical attention.

##### Eye contact

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

A product risk assessment is recommended to determine if eye wash facilities may be required when using this product in the workplace.

##### If swallowed

Rinse mouth. If you feel unwell, get medical attention.

#### 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

Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable extinguishing media

Use a fire fighting agent suitable for the surrounding fire.

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

Closed containers exposed to heat from fire may build pressure and explode.

#### 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

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

**5.4. Hazchem code:** 2YE

## **SECTION 6: Accidental release measures**

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

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. 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**

If possible, seal leaking container. Place leaking containers in a well-ventilated area, preferably an operating exhaust hood, or if necessary outdoors on an impermeable surface until appropriate packaging for the leaking container or its contents is available. Contain spill. Cover spill area with a fire-extinguishing foam. An appropriate aqueous film forming foam (AFFF) is recommended. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. 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: HSNO Controls for more information.

### **7.1. Precautions for safe handling**

Do not use in a confined area with minimal air exchange. Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Do not breathe 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. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (eg. gloves, respirators...) as required.

### **7.2. Conditions for safe storage including any incompatibilities**

Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50C/122F. Protect from sunlight. Store in a well-ventilated place. Store away from heat. Store away from acids. Store away from oxidising agents.

### **7.3. Approved handler test certificate**

Class 2, required when present in quantities greater than 3,000 L (aggregate water capacity)

## **SECTION 8: Exposure controls/personal protection**

### **8.1 Control parameters**

#### **Occupational exposure limits**

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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                                                |
|----------------|--------------|-----------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| Cyclohexane    | 110-82-7     | New Zealand WES | TWA(8 hours):350 mg/m <sup>3</sup> (100 ppm);STEL(15 minutes):1050 mg/m <sup>3</sup> (300 ppm)   |                                                                    |
| Cyclohexane    | 110-82-7     | ACGIH           | TWA:100 ppm                                                                                      |                                                                    |
| Acetone        | 67-64-1      | ACGIH           | TWA:250 ppm;STEL:500 ppm                                                                         | A4: Not class. as human carcinogen                                 |
| Acetone        | 67-64-1      | New Zealand WES | TWA(8 hours):1185 mg/m <sup>3</sup> (500 ppm);STEL(15 minutes):2375 mg/m <sup>3</sup> (1000 ppm) |                                                                    |
| Propane        | 74-98-6      | ACGIH           | Limit value not established:                                                                     | asphyxiant                                                         |
| Propane        | 74-98-6      | New Zealand WES | Limit value not established:                                                                     | Explosion hazard - asphyxiant                                      |
| Glycerol ester | Trade Secret | ACGIH           | Limit value not established:                                                                     | Dermal/Respiratory Sensitiser, Control all exposer-low as possible |

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/m<sup>3</sup>: milligrams per cubic metre

CEIL: Ceiling

## 8.2. Exposure controls

### 8.2.1. Engineering controls

Do not remain in area where available oxygen may be reduced. 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

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.

Gloves made from the following material(s) are recommended: Nitrile rubber.

#### Respiratory protection

In case of inadequate ventilation wear 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 supplied-air respirator.

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

Refer AS/NZS 1715 - Selection, use and maintenance of respiratory protective equipment and AS/NZS 1716 - Respiratory protective devices.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                                   |                                                                                   |
|---------------------------------------------------|-----------------------------------------------------------------------------------|
| Physical state                                    | Liquid.                                                                           |
| Specific Physical Form:                           | Aerosol                                                                           |
| Appearance/Odour                                  | Clear, sweet fruity odour                                                         |
| Odour threshold                                   | No data available.                                                                |
| pH                                                | Not applicable.                                                                   |
| Melting point/Freezing point                      | Not applicable.                                                                   |
| Boiling point/Initial boiling point/Boiling range | Not applicable.                                                                   |
| Flash point                                       | -41.1 °C [Test Method: Tagliabue closed cup]<br>[Details: CONDITIONS: Propellant] |
| Evaporation rate                                  | 1.9 [Ref Std: ETHER=1]                                                            |
| Flammability (solid, gas)                         | Not applicable.                                                                   |
| Flammable Limits(LEL)                             | No data available.                                                                |
| Flammable Limits(UEL)                             | No data available.                                                                |
| Vapour density                                    | 2.97 [Ref Std: AIR=1]                                                             |
| Density                                           | 0.726 g/ml                                                                        |
| Relative density                                  | 0.726 [Ref Std: WATER=1]                                                          |
| Water solubility                                  | Negligible                                                                        |
| Solubility- non-water                             | No data available.                                                                |
| Partition coefficient: n-octanol/water            | No data available.                                                                |
| Autoignition temperature                          | No data available.                                                                |
| Decomposition temperature                         | No data available.                                                                |
| Viscosity                                         | Not applicable.                                                                   |
| Volatile organic compounds (VOC)                  | ± 51 % [Test Method: calculated SCAQMD rule 443.1]                                |
| Percent volatile                                  | ≤ 75 % weight                                                                     |
| VOC less H <sub>2</sub> O & exempt solvents       | 468 g/l                                                                           |

## 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

Heat.

Sparks and/or flames.

### 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 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

Based on test data and/or information on the components, this material may produce the following health effects:

#### Inhalation

Intentional concentration and inhalation may be harmful or fatal. Simple asphyxiation: Signs/symptoms may include increased heart rate, rapid respirations, drowsiness, headache, incoordination, altered judgement, nausea, vomiting, lethargy, seizures, coma, and may be fatal. Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May cause additional health effects (see below).

#### Skin contact

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

#### Eye contact

Severe eye irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

#### Ingestion

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May cause additional health effects (see below).

#### Additional Health Effects:

#### Single exposure may cause target organ effects:

Central nervous system (CNS) depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Single exposure, above recommended guidelines, may cause:

Cardiac sensitisation: Signs/symptoms may include irregular heartbeat (arrhythmia), faintness, chest pain, and may be fatal.

#### Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

#### Toxicological Data

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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 |
| Propane                                 | Inhalation-Gas (4 hours)   | Rat     | LC50 > 200,000 ppm                             |
| Acetone                                 | Dermal                     | Rabbit  | LD50 > 15,688 mg/kg                            |
| Acetone                                 | Inhalation-Vapor (4 hours) | Rat     | LC50 76 mg/l                                   |
| Acetone                                 | Ingestion                  | Rat     | LD50 5,800 mg/kg                               |
| Cyclohexane                             | Dermal                     | Rat     | LD50 > 2,000 mg/kg                             |
| Cyclohexane                             | Inhalation-Vapor (4 hours) | Rat     | LC50 > 32.9 mg/l                               |
| Cyclohexane                             | Ingestion                  | Rat     | LD50 6,200 mg/kg                               |
| Naphtha (petroleum), hydrotreated light | Dermal                     | Rabbit  | LD50 > 3,160 mg/kg                             |
| Naphtha (petroleum), hydrotreated light | Inhalation-Vapor (4 hours) | Rat     | LC50 > 14.7 mg/l                               |
| Naphtha (petroleum), hydrotreated light | Ingestion                  | Rat     | LD50 > 5,000 mg/kg                             |
| Non-Volatile Components                 | Dermal                     |         | LD50 estimated to be > 5,000 mg/kg             |
| Non-Volatile Components                 | Ingestion                  |         | LD50 estimated to be 2,000 - 5,000 mg/kg       |
| Glycerol ester                          | Dermal                     | Rat     | LD50 > 2,000 mg/kg                             |
| Glycerol ester                          | Ingestion                  | Rat     | LD50 > 2,000 mg/kg                             |
| Polyterpene resin                       | Dermal                     |         | LD50 estimated to be > 5,000 mg/kg             |
| Polyterpene resin                       | Ingestion                  | Rat     | LD50 > 34,000 mg/kg                            |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name                                    | Species                | Value                     |
|-----------------------------------------|------------------------|---------------------------|
| Propane                                 | Rabbit                 | Minimal irritation        |
| Acetone                                 | Mouse                  | Minimal irritation        |
| Cyclohexane                             | Rabbit                 | Mild irritant             |
| Naphtha (petroleum), hydrotreated light | Rabbit                 | Irritant                  |
| Non-Volatile Components                 | Professional judgement | Minimal irritation        |
| Glycerol ester                          | Rabbit                 | No significant irritation |

**Serious Eye Damage/Irritation**

| Name                                    | Species | Value           |
|-----------------------------------------|---------|-----------------|
| Propane                                 | Rabbit  | Mild irritant   |
| Acetone                                 | Rabbit  | Severe irritant |
| Cyclohexane                             | Rabbit  | Mild irritant   |
| Naphtha (petroleum), hydrotreated light | Rabbit  | Mild irritant   |
| Glycerol ester                          | Rabbit  | Mild irritant   |

**Skin Sensitisation**

| Name                                    | Species    | Value          |
|-----------------------------------------|------------|----------------|
| Naphtha (petroleum), hydrotreated light | Guinea pig | Not classified |
| Glycerol ester                          | Human      | Not classified |



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|  |               |  |
|--|---------------|--|
|  | and<br>animal |  |
|--|---------------|--|

**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                                                                        |
|-----------------------------------------|----------|------------------------------------------------------------------------------|
| Propane                                 | In Vitro | Not mutagenic                                                                |
| Acetone                                 | In vivo  | Not mutagenic                                                                |
| Acetone                                 | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Cyclohexane                             | In Vitro | Not mutagenic                                                                |
| Cyclohexane                             | In vivo  | Some positive data exist, but the data are not sufficient for classification |
| Naphtha (petroleum), hydrotreated light | In Vitro | Not mutagenic                                                                |

**Carcinogenicity**

| Name                                    | Route          | Species                 | Value                                                                        |
|-----------------------------------------|----------------|-------------------------|------------------------------------------------------------------------------|
| Acetone                                 | Not specified. | Multiple animal species | Not carcinogenic                                                             |
| Naphtha (petroleum), hydrotreated light | Inhalation     | Mouse                   | 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    |
|-------------|------------|----------------------------------------|---------|-----------------------|----------------------|
| Acetone     | Ingestion  | Not classified for male reproduction   | Rat     | NOAEL 1,700 mg/kg/day | 13 weeks             |
| Acetone     | Inhalation | Not classified for development         | Rat     | NOAEL 5.2 mg/l        | during organogenesis |
| Cyclohexane | Inhalation | Not classified for female reproduction | Rat     | NOAEL 24 mg/l         | 2 generation         |
| Cyclohexane | Inhalation | Not classified for male reproduction   | Rat     | NOAEL 24 mg/l         | 2 generation         |
| Cyclohexane | Inhalation | Not classified for development         | Rat     | NOAEL 6.9 mg/l        | 2 generation         |

**Target Organ(s)****Specific Target Organ Toxicity - single exposure**

| Name    | Route      | Target Organ(s)                   | Value                                                                        | Species    | Test result         | Exposure Duration |
|---------|------------|-----------------------------------|------------------------------------------------------------------------------|------------|---------------------|-------------------|
| Propane | Inhalation | cardiac sensitization             | Causes damage to organs                                                      | Human      | NOAEL Not available |                   |
| Propane | Inhalation | central nervous system depression | May cause drowsiness or dizziness                                            | Human      | NOAEL Not available |                   |
| Propane | Inhalation | respiratory irritation            | Not classified                                                               | Human      | NOAEL Not available |                   |
| Acetone | Inhalation | central nervous system depression | May cause drowsiness or dizziness                                            | Human      | NOAEL Not available |                   |
| Acetone | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human      | NOAEL Not available |                   |
| Acetone | Inhalation | immune system                     | Not classified                                                               | Human      | NOAEL 1.19 mg/l     | 6 hours           |
| Acetone | Inhalation | liver                             | Not classified                                                               | Guinea pig | NOAEL Not available |                   |

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|                                         |            |                                   |                                                                              |                       |                     |                        |
|-----------------------------------------|------------|-----------------------------------|------------------------------------------------------------------------------|-----------------------|---------------------|------------------------|
| Acetone                                 | Ingestion  | central nervous system depression | May cause drowsiness or dizziness                                            | Human                 | NOAEL Not available | poisoning and/or abuse |
| Cyclohexane                             | Inhalation | central nervous system depression | May cause drowsiness or dizziness                                            | Human and animal      | NOAEL Not available |                        |
| Cyclohexane                             | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human and animal      | NOAEL Not available |                        |
| Cyclohexane                             | Ingestion  | central nervous system depression | May cause drowsiness or dizziness                                            | Professional judgment | NOAEL Not available |                        |
| Naphtha (petroleum), hydrotreated light | Inhalation | central nervous system depression | May cause drowsiness or dizziness                                            | Human and animal      | NOAEL Not available |                        |
| Naphtha (petroleum), hydrotreated light | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification |                       | NOAEL Not available |                        |
| Naphtha (petroleum), hydrotreated light | Ingestion  | central nervous system depression | May cause drowsiness or dizziness                                            | Professional judgment | NOAEL Not available |                        |

### Specific Target Organ Toxicity - repeated exposure

| Name        | Route      | Target Organ(s)                        | Value          | Species    | Test result            | Exposure Duration |
|-------------|------------|----------------------------------------|----------------|------------|------------------------|-------------------|
| Acetone     | Dermal     | eyes                                   | Not classified | Guinea pig | NOAEL Not available    | 3 weeks           |
| Acetone     | Inhalation | hematopoietic system                   | Not classified | Human      | NOAEL 3 mg/l           | 6 weeks           |
| Acetone     | Inhalation | immune system                          | Not classified | Human      | NOAEL 1.19 mg/l        | 6 days            |
| Acetone     | Inhalation | kidney and/or bladder                  | Not classified | Guinea pig | NOAEL 119 mg/l         | not available     |
| Acetone     | Inhalation | heart   liver                          | Not classified | Rat        | NOAEL 45 mg/l          | 8 weeks           |
| Acetone     | Ingestion  | kidney and/or bladder                  | Not classified | Rat        | NOAEL 900 mg/kg/day    | 13 weeks          |
| Acetone     | Ingestion  | heart                                  | Not classified | Rat        | NOAEL 2,500 mg/kg/day  | 13 weeks          |
| Acetone     | Ingestion  | hematopoietic system                   | Not classified | Rat        | NOAEL 200 mg/kg/day    | 13 weeks          |
| Acetone     | Ingestion  | liver                                  | Not classified | Mouse      | NOAEL 3,896 mg/kg/day  | 14 days           |
| Acetone     | Ingestion  | eyes                                   | Not classified | Rat        | NOAEL 3,400 mg/kg/day  | 13 weeks          |
| Acetone     | Ingestion  | respiratory system                     | Not classified | Rat        | NOAEL 2,500 mg/kg/day  | 13 weeks          |
| Acetone     | Ingestion  | muscles                                | Not classified | Rat        | NOAEL 2,500 mg/kg      | 13 weeks          |
| Acetone     | Ingestion  | skin   bone, teeth, nails, and/or hair | Not classified | Mouse      | NOAEL 11,298 mg/kg/day | 13 weeks          |
| Cyclohexane | Inhalation | liver                                  | Not classified | Rat        | NOAEL 24 mg/l          | 90 days           |
| Cyclohexane | Inhalation | auditory system                        | Not classified | Rat        | NOAEL 1.7 mg/l         | 90 days           |
| Cyclohexane | Inhalation | kidney and/or bladder                  | Not classified | Rabbit     | NOAEL 2.7 mg/l         | 10 weeks          |
| Cyclohexane | Inhalation | hematopoietic system                   | Not classified | Mouse      | NOAEL 24 mg/l          | 14 weeks          |
| Cyclohexane | Inhalation | peripheral nervous system              | Not classified | Rat        | NOAEL 8.6 mg/l         | 30 weeks          |

**3M Super 77 Multipurpose Adhesive****Aspiration Hazard**

| Name                                    | Value             |
|-----------------------------------------|-------------------|
| Cyclohexane                             | Aspiration hazard |
| Naphtha (petroleum), hydrotreated light | Aspiration hazard |

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.****9.1D Aquatic toxicity**

No product test data available.

| Material                                | CAS Number   | Organism        | Type                                                  | Exposure | Test endpoint       | Test result |
|-----------------------------------------|--------------|-----------------|-------------------------------------------------------|----------|---------------------|-------------|
| Acetone                                 | 67-64-1      | Crustacea other | Experimental                                          | 24 hours | LC50                | 2,100 mg/l  |
| Acetone                                 | 67-64-1      | Rainbow trout   | Experimental                                          | 96 hours | LC50                | 5,540 mg/l  |
| Acetone                                 | 67-64-1      | Algae other     | Experimental                                          | 96 hours | EC50                | 11,493 mg/l |
| Acetone                                 | 67-64-1      | Water flea      | Experimental                                          | 21 days  | NOEC                | 1,000 mg/l  |
| Naphtha (petroleum), hydrotreated light | 64742-49-0   |                 | Data not available or insufficient for classification |          |                     |             |
| Non-Volatile Components                 | Trade Secret |                 | Data not available or insufficient for classification |          |                     |             |
| Propane                                 | 74-98-6      |                 | Data not available or insufficient for classification |          |                     |             |
| Glycerol ester                          | Trade Secret | Water flea      | Estimated                                             |          | Effect Level 50%    | >100 mg/l   |
| Glycerol ester                          | Trade Secret | Fathead minnow  | Estimated                                             |          | Lethal Level 50%    | >100 mg/l   |
| Glycerol ester                          | Trade Secret | Green algae     | Estimated                                             |          | Effect Level 50%    | >100 mg/l   |
| Glycerol ester                          | Trade Secret | Green Algae     | Estimated                                             |          | No obs Effect Level | >100 mg/l   |
| Cyclohexane                             | 110-82-7     | Fathead minnow  | Experimental                                          | 96 hours | LC50                | 4.53 mg/l   |
| Cyclohexane                             | 110-82-7     | Water flea      | Experimental                                          | 48 hours | EC50                | 0.9 mg/l    |
| Polyterpene resin                       | Trade Secret |                 | Data not available or insufficient for classification |          |                     |             |

## 12.2. Persistence and degradability

| Material                                | CAS Number   | Test type                                             | Duration | Study Type                    | Test result       | Protocol                            |
|-----------------------------------------|--------------|-------------------------------------------------------|----------|-------------------------------|-------------------|-------------------------------------|
| Acetone                                 | 67-64-1      | Experimental Biodegradation                           | 28 days  | BOD                           | 78 % weight       | OECD 301D - Closed bottle test      |
| Acetone                                 | 67-64-1      | Experimental Photolysis                               |          | Photolytic half-life (in air) | 147 days (t 1/2)  | Other methods                       |
| Naphtha (petroleum), hydrotreated light | 64742-49-0   | Experimental Biodegradation                           | 28 days  | BOD                           | 89 % weight       | OECD 301F - Manometric respirometry |
| Non-Volatile Components                 | Trade Secret | Data not available or insufficient for classification | N/A      | N/A                           | N/A               | N/A                                 |
| Propane                                 | 74-98-6      | Experimental Photolysis                               |          | Photolytic half-life (in air) | 27.5 days (t 1/2) | Other methods                       |
| Glycerol ester                          | Trade Secret | Experimental Biodegradation                           | 28 days  | CO2 evolution                 | 47.3 % weight     | OECD 301B - Modified sturm or CO2   |
| Cyclohexane                             | 110-82-7     | Experimental Biodegradation                           | 28 days  | BOD                           | 77 % BOD/ThBOD    | OECD 301F - Manometric respirometry |
| Cyclohexane                             | 110-82-7     | Experimental Photolysis                               |          | Photolytic half-life (in air) | 4.14 days (t 1/2) | Other methods                       |
| Polyterpene resin                       | Trade Secret | Experimental Biodegradation                           | 28 days  | BOD                           | 0 % weight        | OECD 301C - MITI test (I)           |

## 12.3 : Bioaccumulative potential

| Material                                | CAS Number   | Test type                                             | Duration | Study Type             | Test result | Protocol                                           |
|-----------------------------------------|--------------|-------------------------------------------------------|----------|------------------------|-------------|----------------------------------------------------|
| Acetone                                 | 67-64-1      | Experimental Bioconcentration                         |          | Log Kow                | -0.24       | Other methods                                      |
| Naphtha (petroleum), hydrotreated light | 64742-49-0   | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                                                |
| Non-Volatile Components                 | Trade Secret | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                                                |
| Propane                                 | 74-98-6      | Experimental Bioconcentration                         |          | Log Kow                | 2.36        | Other methods                                      |
| Glycerol ester                          | Trade Secret | Estimated Bioconcentration                            |          | Bioaccumulation factor | 7.4         | Estimated: Bioconcentration factor                 |
| Cyclohexane                             | 110-82-7     | Experimental BCF-Carp                                 | 56 days  | Bioaccumulation factor | 129         | OECD 305E - Bioaccumulation flow-through fish test |
| Polyterpene resin                       | Trade Secret | Estimated BCF-Carp                                    | 70 days  | Bioaccumulation factor | 11100       | Other methods                                      |

## 3M Super 77 Multipurpose Adhesive

### 12.4. Mobility in soil

Please contact manufacturer for more details

### 12.5 Other adverse effects

| Material | CAS Number | Ozone Depletion Potential | Cure activator |
|----------|------------|---------------------------|----------------|
| acetone  | 67-64-1    | 0                         |                |

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

See Section 11.1 Information on toxicological effects

Dispose of waste product in a permitted industrial waste facility. Facility must be capable of handling aerosol cans. 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.

Disposal of the aerosol dispenser (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.: UN1950

Proper Shipping Name: AEROSOLS

Class/Division: 2.1

Sub Risk: Not applicable.

Packing Group: Not applicable.

Special Instructions: Limited quantity may apply

Hazchem Code: 2YE

IERG: 49

### International Air Transport Association (IATA) - Air Transport

UN No.: UN1950

Proper Shipping Name: AEROSOLS, FLAMMABLE

Class/Division: 2.1

Sub Risk: Not applicable.

Packing Group: Not applicable.

### International Maritime Dangerous Goods Code (IMDG) - Marine Transport

UN No.: UN1950

Proper Shipping Name: AEROSOLS

Class/Division: 2.1

Sub Risk: Not applicable.

Packing Group: Not applicable.

Marine Pollutant: Not applicable.

Special Instructions: Limited quantity may apply

## SECTION 15: Regulatory information

HSNO Approval number HSR002515

## 3M Super 77 Multipurpose Adhesive

Group standard name        Aerosols (Flammable) Group Standard 2006  
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.

### HSNO Controls

|                                               |                                                                                              |
|-----------------------------------------------|----------------------------------------------------------------------------------------------|
| Approved handler test certificate             | Class 2, required when present in quantities greater than 3,000 L (aggregate water capacity) |
| Location and transit Depot certification test | 3,000 L (aggregate water capacity)                                                           |
| Hazardous atmosphere zone                     | 3,000 L (aggregate water capacity)                                                           |
| Fire extinguishers                            | One required for 3,000 L (aggregate water capacity)                                          |
| Emergency response plan                       | 3,000 L (aggregate water capacity)                                                           |
| Secondary containment                         | Not required                                                                                 |
| Tracking                                      | Not required                                                                                 |
| Warning signage                               | 3,000 L (aggregate water capacity)                                                           |

## SECTION 16: Other information

### Revision information:

No revision information is available.

Section 1: Product identification numbers information was modified.

Section 8: Occupational exposure limit table information was modified.

Section 12: Component ecotoxicity information information was modified.

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