



Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (Safe Work Australia, December 2011)

SECTION 1: Identification

1.1. Product identifier

3M™ Super 77 Classic Spray Adhesive

Product Identification Numbers

62-4437-4921-3 AS-0192-9224-7

1.2. Recommended use and restrictions on use

Recommended use

Aerosol Adhesive, Industrial use.

For Industrial or Consumer Use.

1.3. Supplier's details

Address: 3M Australia - Building A, 1 Rivett Road, North Ryde NSW 2113
Telephone: 136 136
E Mail: productinfo.au@mmm.com
Website: www.3m.com.au

1.4. Emergency telephone number

EMERGENCY: 1800 097 146 (Australia only)

SECTION 2: Hazard identification

This product is classified as a hazardous chemical according to the Model Work Health and Safety Regulations, 2011.

Refer to Section 14 of this Safety Data Sheets for product Dangerous Goods Classification.

2.1. Classification of the substance or mixture

Flammable Aerosol: Category 1.

Gas under pressure: Liquefied gas.

Specific Target Organ Toxicity (single exposure): Category 1.

Specific Target Organ Toxicity (single exposure): Category 3.

2.2. Label elements

The label elements below were prepared in accordance with the Code of Practice on Preparation of Safety Data Sheets for

Hazardous Chemicals (Safe Work Australia, December 2011). This information may be different from the actual product label.

Signal word

DANGER!

Symbols

Flame | Gas cylinder | Exclamation mark | Health Hazard |

Pictograms



Hazard statements

| | |
|------|---|
| H222 | Extremely flammable aerosol. |
| H280 | Contains gas under pressure; may explode if heated. |
| H336 | May cause drowsiness or dizziness. |
| H370 | Causes damage to organs: cardiovascular system |

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. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P270 | Do not eat, drink or smoke when using this product. |
| P264 | Wash thoroughly after handling. |

Response:

| | |
|-------------|--|
| P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P307 + P311 | IF exposed: Call a POISON CENTRE or doctor/physician. |
| P321 | Specific treatment (see Notes to Physician on this label). |
| P312 | Call a POISON CENTRE or doctor/physician if you feel unwell. |

Storage:

| | |
|-------------|--|
| P410 + P403 | Protect from sunlight. Store in a well-ventilated place. |
| P410 + P412 | Protect from sunlight. Do not expose to temperatures exceeding 50°C. |
| P403 + P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P405 | Store locked up. |

Disposal:

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

2.3. Other assigned/identified product hazards

3M Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal.

2.4. Other hazards which do not result in classification

Toxic to aquatic life.

SECTION 3: Composition/information on ingredients

This material is a mixture.

| Ingredient | CAS Nbr | % by Weight |
|---------------------------------------|--------------|-------------|
| Non-hazardous ingredients | Trade Secret | 15 - 40 |
| Cyclohexane | 110-82-7 | 10 - 30 |
| Hydrotreated light naptha (petroleum) | 64742-49-0 | 10 - 30 |
| Dimethyl Ether | 115-10-6 | 7 - 13 |
| Isobutane | 75-28-5 | 7 - 13 |
| Propane | 74-98-6 | 7 - 13 |
| Hexane | 110-54-3 | < 1 |

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

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

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

None inherent in this product.

Hazardous Decomposition or By-Products

Substance

Aldehydes.
Carbon monoxide.
Carbon dioxide.
Toxic vapour, gas, particulate.

Condition

During combustion.
During combustion.
During combustion.
During combustion.

5.3. Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

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 vapours 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. Cover spill area with a fire-extinguishing foam. An appropriate aqueous film forming foam (AFFF) is recommended. Collect as much of the spilled material as possible using non-sparking tools. Dispose of collected material as soon as possible.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

For industrial or professional use only. 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 release to the environment. 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. Keep container tightly closed. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Protect from sunlight. Store in a well-ventilated place. Store away from heat. Store away from acids. Store away from oxidising agents.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Occupational exposure limits**

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| Ingredient | CAS Nbr | Agency | Limit type | Additional comments |
|-------------|----------|----------------|---|---------------------|
| Hexane | 110-54-3 | Australia OELs | TWA(8 hours): 72 mg/m ³ (20 ppm) | |
| Hexane | 110-54-3 | ACGIH | TWA:50 ppm | SKIN |
| Cyclohexane | 110-82-7 | ACGIH | TWA:100 ppm | |
| Cyclohexane | 110-82-7 | Australia OELs | TWA(8 hours):350 mg/m ³ (100 ppm);STEL(15 minutes):1050 mg/m ³ (300 | |

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| | | | ppm) | |
|----------------|----------|----------------|---|------------------------------|
| Dimethyl Ether | 115-10-6 | Australia OELs | TWA(8 hours):760 mg/m ³ (400 ppm);STEL(15 minutes):950 mg/m ³ (500 ppm) | |
| Dimethyl Ether | 115-10-6 | AIHA | TWA:1880 mg/m ³ (1000 ppm) | |
| Propane | 74-98-6 | ACGIH | Limit value not established: | |
| Propane | 74-98-6 | Australia OELs | Limit value not established: | Explosion hazard, asphyxiant |
| Natural gas | 75-28-5 | ACGIH | Limit value not established: | |
| Isobutane | 75-28-5 | ACGIH | STEL:1000 ppm | |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

Australia OELs : Australia. Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment

CMRG : Chemical Manufacturer's Recommended Guidelines

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CELL: Ceiling

Sen: Sensitiser

Sk: Absorption through the skin may be a significant source of exposure.

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:

Safety glasses with side shields.

Select and use eye protection in accordance with AS/NZS 1336. Eye protection should comply with the performance specifications of AS/NZS 1337.

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.

Select and use gloves according to AS/NZ 2161.

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapours

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

Select and use respirators according to AS/NZS 1715. Respirators should comply with AS/NZS 1716 performance

specifications. For information about respirators, call 3M on 1800 024 464.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|--|
| Physical state | Gas. |
| Appearance/Odour | light cream colored, sweet/fruity odour. |
| Odour threshold | <i>No data available.</i> |
| pH | <i>Not applicable.</i> |
| Melting point/Freezing point | <i>No data available.</i> |
| Flash point | -41.1 °C [<i>Test Method</i> : Tagliabue closed cup] |
| Evaporation rate | 1.9 [<i>Ref Std</i> : ETHER=1] |
| Flammability (solid, gas) | Flammable Aerosol: Category 1. |
| Flammable Limits(LEL) | Approximately 1.5 % volume |
| Flammable Limits(UEL) | Approximately 8.6 % volume |
| Vapour density | 2.97 [<i>Ref Std</i> : AIR=1] |
| Density | 0.697 g/ml |
| Relative density | 0.697 [<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> |
| Autoignition temperature | <i>No data available.</i> |
| Decomposition temperature | <i>Not applicable.</i> |
| Viscosity | <i>Not applicable.</i> |
| Molecular weight | <i>No data available.</i> |
| Volatile organic compounds (VOC) | 75 % [<i>Test Method</i> : calculated per CARB title 2] |
| Heat of Combustion | <=43.5 kJ/g |
| Solids content | 15 - 40 % |

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. Conditions to avoid

Heat.

10.4. Possibility of hazardous reactions

Hazardous polymerisation will not occur.

10.5 Incompatible materials

Strong oxidising agents.

10.6 Hazardous decomposition products

Substance

None known.

Condition

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

Prolonged or repeated exposure may cause:

Dermal Defatting: Signs/symptoms may include localised redness, itching, drying and cracking of skin.

Eye contact

Contact with the eyes during product use is not expected to result in significant irritation.

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

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 | Dermal | | No data available; calculated ATE >5,000 mg/kg |
| Overall product | Inhalation-Vapour(4 hr) | | No data available; calculated ATE >50 mg/l |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| Hydrotreated light naphtha (petroleum) | Dermal | Rabbit | LD50 > 3,160 mg/kg |
| Hydrotreated light naphtha (petroleum) | Inhalation-Vapour (4 hours) | Rat | LC50 > 14.7 mg/l |

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| | | | |
|--|-----------------------------|--------|--|
| Hydrotreated light naphtha (petroleum) | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Isobutane | Inhalation-Gas (4 hours) | Rat | LC50 276,000 ppm |
| Propane | Inhalation-Gas (4 hours) | Rat | LC50 > 200,000 ppm |
| Cyclohexane | Dermal | Rat | LD50 > 2,000 mg/kg |
| Cyclohexane | Inhalation-Vapour (4 hours) | Rat | LC50 > 32.9 mg/l |
| Cyclohexane | Ingestion | Rat | LD50 6,200 mg/kg |
| Non-hazardous ingredients | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Non-hazardous ingredients | Ingestion | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Dimethyl Ether | Inhalation-Gas (4 hours) | Rat | LC50 164,000 ppm |
| Hexane | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| Hexane | Inhalation-Vapour (4 hours) | Rat | LC50 170 mg/l |
| Hexane | Ingestion | Rat | LD50 > 28,700 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|--|------------------------|---------------------------|
| Overall product | | Minimal irritation |
| Hydrotreated light naphtha (petroleum) | Rabbit | Irritant |
| Isobutane | Professional judgement | No significant irritation |
| Propane | Rabbit | Minimal irritation |
| Cyclohexane | Rabbit | Mild irritant |
| Non-hazardous ingredients | Professional judgement | Minimal irritation |
| Hexane | Human and animal | Mild irritant |

Serious Eye Damage/Irritation

| Name | Species | Value |
|--|------------------------|---------------------------|
| Hydrotreated light naphtha (petroleum) | Rabbit | Mild irritant |
| Isobutane | Professional judgement | No significant irritation |
| Propane | Rabbit | Mild irritant |
| Cyclohexane | Rabbit | Mild irritant |
| Hexane | Rabbit | Mild irritant |

Skin Sensitisation

| Name | Species | Value |
|--|------------|-----------------|
| Hydrotreated light naphtha (petroleum) | Guinea pig | Not sensitizing |
| Hexane | Human | Not sensitizing |

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 |
|--|----------|--|
| Hydrotreated light naphtha (petroleum) | In Vitro | Not mutagenic |
| Isobutane | In Vitro | Not mutagenic |
| Propane | In Vitro | Not mutagenic |
| Cyclohexane | In Vitro | Not mutagenic |
| Cyclohexane | In vivo | Some positive data exist, but the data are not sufficient for classification |

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| | | |
|----------------|----------|---------------|
| Dimethyl Ether | In Vitro | Not mutagenic |
| Dimethyl Ether | In vivo | Not mutagenic |
| Hexane | In Vitro | Not mutagenic |
| Hexane | In vivo | Not mutagenic |

Carcinogenicity

| Name | Route | Species | Value |
|--|------------|---------|--|
| Hydrotreated light naphtha (petroleum) | Inhalation | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Dimethyl Ether | Inhalation | Rat | Not carcinogenic |
| Hexane | Dermal | Mouse | Not carcinogenic |
| Hexane | 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 |
|----------------|------------|--|---------|-----------------------|----------------------|
| Cyclohexane | Inhalation | Not toxic to female reproduction | Rat | NOAEL 24 mg/l | 2 generation |
| Cyclohexane | Inhalation | Not toxic to male reproduction | Rat | NOAEL 24 mg/l | 2 generation |
| Cyclohexane | Inhalation | Some positive developmental data exist, but the data are not sufficient for classification | Rat | NOAEL 6.9 mg/l | 2 generation |
| Dimethyl Ether | Inhalation | Not toxic to development | Rat | NOAEL 40,000 ppm | during organogenesis |
| Hexane | Ingestion | Not toxic to development | Mouse | NOAEL 2,200 mg/kg/day | during organogenesis |
| Hexane | Inhalation | Some positive developmental data exist, but the data are not sufficient for classification | Rat | NOAEL 0.7 mg/l | during gestation |
| Hexane | Ingestion | Toxic to male reproduction | Rat | NOAEL 1,140 mg/kg/day | 90 days |
| Hexane | Inhalation | Toxic to male reproduction | Rat | LOAEL 3.52 mg/l | 28 days |

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

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|--|------------|-----------------------------------|--|------------------------|---------------------|-------------------|
| Hydrotreated light naphtha (petroleum) | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human and animal | NOAEL Not available | |
| Hydrotreated light naphtha (petroleum) | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | | NOAEL Not available | |
| Hydrotreated light naphtha (petroleum) | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Professional judgement | NOAEL Not available | |

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|----------------|------------|-----------------------------------|--|-------------------------|---------------------|---------------|
| Isobutane | Inhalation | cardiac sensitization | Causes damage to organs | Multiple animal species | NOAEL Not available | |
| Isobutane | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human and animal | NOAEL Not available | |
| Isobutane | Inhalation | respiratory irritation | All data are negative | Mouse | NOAEL Not available | |
| 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 | All data are negative | Human | NOAEL Not available | |
| 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 judgement | NOAEL Not available | |
| Dimethyl Ether | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Rat | LOAEL 10,000 ppm | 30 minutes |
| Dimethyl Ether | Inhalation | cardiac sensitization | Some positive data exist, but the data are not sufficient for classification | Dog | NOAEL 100,000 ppm | 5 minutes |
| Hexane | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | not available |
| Hexane | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Rabbit | NOAEL Not available | 8 hours |
| Hexane | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 24.6 mg/l | 8 hours |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|-------------|------------|-----------------------|--|---------|-----------------|-------------------|
| Isobutane | Inhalation | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 4,500 ppm | 13 weeks |
| Cyclohexane | Inhalation | liver | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 24 mg/l | 90 days |

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|----------------|------------|--|--|--------|-----------------------|-----------------------|
| Cyclohexane | Inhalation | auditory system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 1.7 mg/l | 90 days |
| Cyclohexane | Inhalation | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rabbit | NOAEL 2.7 mg/l | 10 weeks |
| Cyclohexane | Inhalation | hematopoietic system | Some positive data exist, but the data are not sufficient for classification | Mouse | NOAEL 24 mg/l | 14 weeks |
| Cyclohexane | Inhalation | peripheral nervous system | All data are negative | Rat | NOAEL 8.6 mg/l | 30 weeks |
| Dimethyl Ether | Inhalation | hematopoietic system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 25,000 ppm | 2 years |
| Dimethyl Ether | Inhalation | liver | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 20,000 ppm | 30 weeks |
| Hexane | Inhalation | peripheral nervous system | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | occupational exposure |
| Hexane | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Mouse | LOAEL 1.76 mg/l | 13 weeks |
| Hexane | Inhalation | liver | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL Not available | 6 months |
| Hexane | Inhalation | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 1.76 mg/l | 6 months |
| Hexane | Inhalation | hematopoietic system | Some positive data exist, but the data are not sufficient for classification | Mouse | NOAEL 35.2 mg/l | 13 weeks |
| Hexane | Inhalation | auditory system immune system eyes | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | occupational exposure |
| Hexane | Inhalation | heart skin endocrine system | All data are negative | Rat | NOAEL 1.76 mg/l | 6 months |
| Hexane | Ingestion | peripheral nervous system | Some positive data exist, but the | Rat | NOAEL 1,140 mg/kg/day | 90 days |

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|--------|-----------|---|--|-----|---------------------|----------|
| | | | data are not sufficient for classification | | | |
| Hexane | Ingestion | endocrine system hematopoietic system liver immune system kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL Not available | 13 weeks |

Aspiration Hazard

| Name | Value |
|--|-------------------|
| Hydrotreated light naphtha (petroleum) | Aspiration hazard |
| Cyclohexane | Aspiration hazard |
| Hexane | Aspiration hazard |

Exposure Levels

Refer Section 8.1 Control Parameters of this Safety Data Sheet.

Interactive Effects

Not determined.

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

Acute aquatic hazard:

GHS Acute 2: Toxic to aquatic life.

Chronic aquatic hazard:

Not chronically toxic to aquatic life by GHS criteria.

No product test data available.

| Material | CAS Number | Organism | Type | Exposure | Test endpoint | Test result |
|---------------------------|--------------|----------------|---|----------|---------------|-------------|
| Cyclohexane | 110-82-7 | Green Algae | Experimental | 72 hours | EC50 | 3.4 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 |
| Dimethyl Ether | 115-10-6 | Water flea | Experimental | 48 hours | EC50 | >4,000 mg/l |
| Dimethyl Ether | 115-10-6 | Guppy | Experimental | 96 hours | LC50 | >4,000 mg/l |
| Hexane | 110-54-3 | Water flea | Experimental | 48 hours | EC50 | >3.9 mg/l |
| Hexane | 110-54-3 | Fathead minnow | Experimental | 96 hours | LC50 | 2.5 mg/l |
| Non-hazardous ingredients | Trade Secret | | Data not available or insufficient for classification | | | |
| Hydrotreated | 64742-49-0 | | Data not | | | |

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| | | | | | | |
|--------------------------|---------|--|---|--|--|--|
| light naptha (petroleum) | | | available or insufficient for classification | | | |
| Isobutane | 75-28-5 | | Data not available or insufficient for classification | | | |
| Propane | 74-98-6 | | Data not available or insufficient for classification | | | |

12.2. Persistence and degradability

| Material | CAS Number | Test type | Duration | Study Type | Test result | Protocol |
|---------------------------------------|--------------|---|----------|-------------------------------|--------------------|-------------------------------------|
| Propane | 74-98-6 | Experimental Photolysis | | Photolytic half-life (in air) | 27.5 days (t 1/2) | Other methods |
| Dimethyl Ether | 115-10-6 | Experimental Photolysis | | Photolytic half-life (in air) | 10.77 days (t 1/2) | Other methods |
| Cyclohexane | 110-82-7 | Experimental Photolysis | | Photolytic half-life (in air) | 4.14 days (t 1/2) | Other methods |
| Isobutane | 75-28-5 | Experimental Photolysis | | Photolytic half-life (in air) | 13.7 days (t 1/2) | Other methods |
| Hexane | 110-54-3 | Experimental Photolysis | | Photolytic half-life (in air) | 5.4 days (t 1/2) | Other methods |
| Non-hazardous ingredients | Trade Secret | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Hydrotreated light naptha (petroleum) | 64742-49-0 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Hexane | 110-54-3 | Experimental Bioconcentration | 28 days | BOD | 100 % weight | OECD 301C - MITI test (I) |
| Cyclohexane | 110-82-7 | Experimental Biodegradation | 28 days | BOD | 77 % weight | OECD 301F - Manometric respirometry |

12.3 : Bioaccumulative potential

| Material | CAS Number | Test type | Duration | Study Type | Test result | Protocol |
|---------------------------------------|--------------|---|----------|------------|-------------|----------|
| Hydrotreated light naptha (petroleum) | 64742-49-0 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Propane | 74-98-6 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Non-hazardous ingredients | Trade Secret | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |

3M™ Super 77 Classic Spray Adhesive

| | | | | | | |
|----------------|----------|----------------------------------|---------|------------------------|------|---------------|
| Cyclohexane | 110-82-7 | Experimental BCF-Carp | 56 days | Bioaccumulation factor | <129 | Other methods |
| Isobutane | 75-28-5 | Experimental BCF - Other | | Bioaccumulation factor | 1.97 | Other methods |
| Hexane | 110-54-3 | Modeled Bioconcentration | | Bioaccumulation factor | 138 | Other methods |
| Dimethyl Ether | 115-10-6 | Experimental Bioconcentration | | Log Kow | 0.2 | Other methods |

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**

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate in a permitted waste incineration facility. The facility should be equipped to handle gaseous waste.

SECTION 14: Transport Information**Australian Dangerous Goods Code (ADG) - 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

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Australian Inventory Status:

The chemical components contained within this product are listed on the Australian Inventory of Chemical Substances and are in compliance with the requirements of the Industrial Chemicals (Notification and Assessment) Act 1989 as amended.

Poison Schedule: This product is not a scheduled poison according to the criteria of the Standard for the Uniform Scheduling of Medicines and Poisons.

SECTION 16: Other information

Revision information:

Update to Section 12, Ecological information.

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 Safety 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.

Greenguard® is a United States based program. The 'Low VOC' reference related to United States Federal and State regulations exemptions for some solvents.

3M Australia SDSs are available at www.3m.com.au