



Safety Data Sheet

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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) and as amended

IDENTIFICATION:

1.1. Product identifier

3M Plastifil Plastic Filler 1kg

Product identification numbers

AS-0105-9102-7

1.2. Recommended use and restrictions on use

Automotive.

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)

This product is a kit or a multipart product which consists of multiple, independently packaged components. A Safety Data Sheet for each of these components is included. Please do not separate the component Safety Data Sheets from this cover page. The document numbers of the SDSs for components of this product are:

27-0588-7, 27-8467-6

TRANSPORT INFORMATION

AS-0105-9102-7.

NEW ZEALAND LAND TRANSPORT:
UN3269, POLYESTER RESIN KIT, 3, III, LIMITED QUANTITY.

IATA:
FORBIDDEN PACKAGE SIZE EXCEEDS IATA QUANTITY LIMITATIONS.

IMO:
UN3269, POLYESTER RESIN KIT, 3, III, LIMITED QUANTITY, MARINE POLLUTANT, (Benzoyl peroxide).

Revision information:

Revision Changes:

Section 1: Initial issue message was modified.



Safety Data Sheet

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Document group:	27-0588-7	Version number:	2.00
Issue Date:	03/12/2012	Supersedes date:	14/02/2012

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

SECTION 1: Identification

1.1. Product identifier

3M Plastifil Plastic Filler 1kg

Product identification numbers

AS-0105-7891-7

1.2. Recommended use and restrictions on use

Recommended use

Automotive.

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.

Classified as a Dangerous Good according to; NZS 5433:2012 Transport of Dangerous Goods on Land, UN, IMDG and IATA.

HSNO classification

3.1C Flammable liquid

6.3B Irritating to the skin

6.4A Irritating to the eye

6.7B Suspected human carcinogen

6.9A Toxic to human target organs/systems

9.3C Terrestrial vertebrate toxicity

2.2. Label elements

SIGNAL WORD

DANGER!

Symbols:

Flame | Health Hazard |

Pictograms



HAZARD STATEMENTS:

H226	Flammable liquid and vapour.
H320	Causes eye irritation.
H316	Causes mild skin irritation.
H351	Suspected of causing cancer.
H370	Causes damage to organs: liver sensory organs
H372	Causes damage to organs through prolonged or repeated exposure: respiratory system sensory organs liver nervous system sensory organs
H433	Harmful to terrestrial vertebrates.

PRECAUTIONARY STATEMENTS

General:

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.

Prevention:

P104	Read Safety Data Sheet before use.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P240	Ground/bond container and receiving equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P233	Keep container tightly closed.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280B	Wear protective gloves and eye/face protection.
P281	Use personal protective equipment as required.
P270	Do not eat, drink or smoke when using this product.
P264	Wash thoroughly after handling.

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P273 Avoid release to the environment.

Response:

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P307 + P311 IF exposed: Call a POISON CENTER or doctor/physician.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P321 Specific treatment (see Notes to Physician on this label).

P314 Get medical advice/attention if you feel unwell.

P370 In case of fire:

P378G Use a fire fighting agent suitable for flammable liquids and solids such as dry chemical or carbon dioxide.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

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

2.3. Other hazards

May cause drowsiness or dizziness.

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	% by Weight
Talc	14807-96-6	30 - 60
Calcium carbonate	471-34-1	15 - 40
Styrene	100-42-5	10 - 30
Silicon dioxide	7631-86-9	1 - 5
Carbon black	1333-86-4	< 5

SECTION 4: First aid measures

4.1. Description of first aid measures

Eye contact

Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately 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.

Skin contact

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Inhalation

Remove person to fresh air. If you feel unwell, get medical attention.

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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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for flammable liquids and solids such as dry chemical or carbon dioxide.

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

<u>Substance</u>	<u>Condition</u>
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.
Irritant vapours or gases.	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: 3Y

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 vapours, 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

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 toxic, corrosivity or flammability 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.

SECTION 7: Handling and storage

Refer to Section 15 - HSNO controls for more information

7.1. Precautions for safe handling

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. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Use explosion-proof electrical/ventilating/lighting/equipment. 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. Wear low static or properly grounded shoes. Use personal protective equipment (eg. gloves, respirators...) as required. Avoid breathing of dust created by cutting, sanding, grinding or machining. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Vapours may travel long distances along the ground or floor to an ignition source and flash back.

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store away from acids. Store away from oxidising agents.

7.3. Approved handler test certificate

Not required

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
Styrene	100-42-5	New Zealand WES	TWA(8 hours): 213 mg/m3 (50 ppm), STEL(15 minutes): 426 mg/m3 (100 ppm).	Skin Notation
Carbon black	1333-86-4	New Zealand WES	TWA(8 hours): 3 mg/m3	
Talc	14807-96-6	New Zealand WES	TWA(as respirable dust)(8 hours):2 mg/m3	
Calcium carbonate	471-34-1	New Zealand WES	TWA(8 hours):10 mg/m3	
Silica gel, pptd., cryst.-free Synthetic amorphous silica (silicon dioxide) is produced by a wet process by reacting an aqueous alkali metal silicate solution and a mineral acid. An extensive hydrated silica structure, or "gel" is formed which is	7631-86-9	New Zealand WES	TWA(8 hours):10 mg/m3	

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

CEIL: 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. Use explosion-proof ventilation equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Wear eye/face protection.

The following eye protection(s) are recommended: Safety glasses with side shields.

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

Gloves made from the following material(s) are recommended: Polyvinyl alcohol (PVA).

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 vapors and particulates

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:	Paste
Appearance/Odour	Sweet aromatic styrene odour; Black
pH	<i>Not applicable.</i>
Boiling point/boiling range	145 °C
Melting point	<i>No data available.</i>
Flammability (solid, gas)	Not applicable.
Explosive properties	Not classified
Oxidising properties	Not classified
Flash point	31 °C [<i>Test Method:</i> Closed Cup]
Autoignition temperature	480 °C
Flammable Limits(LEL)	1.2 % volume
Flammable Limits(UEL)	8.9 % volume
Vapour pressure	0.6 kPa [<i>@ 20 °C</i>]
Relative density	1.69 [<i>Ref Std:</i> WATER=1]
Water solubility	Nil
Partition coefficient: n-octanol/water	<i>No data available.</i>
Evaporation rate	<i>No data available.</i>
Vapour density	<i>No data available.</i>
Viscosity	<i>No data available.</i>
Density	1.69 g/cm ³
Volatile organic compounds (VOC)	211.2 g/l [<i>Details:</i> EC Definition]

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is considered to be non reactive under normal use conditions

10.2 Chemical stability

Stable.

10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

10.4 Conditions to avoid

Heat.

Sparks and/or flames.

Avoid shock or friction.

10.5 Incompatible materials

Strong oxidising agents.

10.6 Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
None known.	

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:

Eye contact

Moderate eye irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision. Dust created by cutting, grinding, sanding, or machining may cause eye irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Skin contact

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

Inhalation

Dust from cutting, grinding, sanding or machining may cause irritation of the respiratory system: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, nose and throat pain. May cause target organ effects after inhalation.

Ingestion

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea.

3M Plastifil Plastic Filler 1kg**Target Organ Effects:**

Auditory effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears. Liver effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice. Central nervous system (CNS) depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Prolonged or repeated exposure may cause:

Pneumoconiosis: Sign/symptoms may include persistent cough, breathlessness, chest pain, increased amounts of sputum, and changes in lung function tests. Ocular effects: Signs/symptoms may include blurred or significantly impaired vision.

Neurological effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and changes in blood pressure and heart rate.

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

Toxicological Data**Acute Toxicity**

Name	Route	Species	Value
Overall product	Ingestion		No test data available; calculated ATE >5,000 mg/kg
Talc	Ingestion		LD50 Not available
Calcium carbonate	Dermal		LD50 estimated to be > 5,000 mg/kg
Calcium carbonate	Ingestion	Rat	LD50 6,450 mg/kg
Styrene	Inhalation-Vapor (4 hours)	Rat	LC50 8.3 mg/l
Styrene	Ingestion	Rat	LD50 5,000 mg/kg
Silicon dioxide	Dermal	Rabbit	LD50 > 5,000 mg/kg
Silicon dioxide	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
Silicon dioxide	Ingestion	Rat	LD50 > 5,110 mg/kg
Carbon black	Dermal	Rabbit	LD50 > 3,000 mg/kg
Carbon black	Ingestion	Rat	LD50 > 8,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Talc	Rabbit	No significant irritation
Calcium carbonate		No data available
Styrene		Mild irritant
Silicon dioxide	Rabbit	No significant irritation
Carbon black		No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Talc	Rabbit	No significant irritation
Calcium carbonate		No data available
Styrene		Moderate irritant
Silicon dioxide	Rabbit	No significant irritation
Carbon black		No data available

Skin Sensitisation

Name	Species	Value
Talc		No data available
Calcium carbonate		No data available
Styrene		Not sensitizing
Silicon dioxide	Human and animal	Not sensitizing
Carbon black		No data available

3M Plastifil Plastic Filler 1kg**Respiratory Sensitisation**

Name	Species	Value
Talc	Human	Not sensitizing
Calcium carbonate		No data available
Styrene		No data available
Silicon dioxide		No data available
Carbon black		No data available

Germ Cell Mutagenicity

Name	Route	Value
Talc	In Vitro	Not mutagenic
Talc	In vivo	Not mutagenic
Calcium carbonate		No data available
Styrene	In Vitro	Some positive data exist, but the data are not sufficient for classification
Styrene	Ingestion	Some positive data exist, but the data are not sufficient for classification
Styrene	Inhalation	Some positive data exist, but the data are not sufficient for classification
Silicon dioxide	In Vitro	Not mutagenic
Carbon black	In vivo	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Talc	Inhalation	Rat	Some positive data exist, but the data are not sufficient for classification
Calcium carbonate			No data available
Styrene	Ingestion		Carcinogenic.
Styrene	Inhalation		Carcinogenic.
Silicon dioxide	Not specified.	Mouse	Some positive data exist, but the data are not sufficient for classification
Carbon black	Dermal		Not carcinogenic
Carbon black	Ingestion		Not carcinogenic
Carbon black	Inhalation		Carcinogenic.

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

Name	Route	Value	Species	Test result	Exposure Duration
Talc	Ingestion	Not toxic to development	Rat	NOAEL 1,600 mg/kg	during organogenesis
Calcium carbonate	Ingestion	Not toxic to reproduction and/or development		NOAEL N/A	
Styrene	Ingestion	Some positive reproductive/developmental data exist, but the data are not sufficient for classification		LOEL 200 mg/kg/day	
Styrene	Inhalation	Some positive reproductive/developmental data exist, but the data are not sufficient for classification		NOEL N/A	
Silicon dioxide	Ingestion	Not toxic to female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation

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Silicon dioxide	Ingestion	Not toxic to male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Silicon dioxide	Ingestion	Not toxic to development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis
Carbon black		No data available			

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Talc			No data available			
Calcium carbonate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive	
Calcium carbonate	Inhalation	respiratory system	All data are negative		NOAEL 0.0812 mg/l	
Styrene	Inhalation	auditory system	Causes damage to organs		LOAEL 4.3 mg/l	
Styrene	Inhalation	liver	Causes damage to organs		LOAEL 2.1 mg/l	
Styrene	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL N/A	
Styrene	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive	
Styrene	Inhalation	endocrine system	All data are negative		NOAEL N/A	
Styrene	Inhalation	kidney and/or bladder	All data are negative		NOAEL 2.1 mg/l	
Silicon dioxide			No data available			
Carbon black	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Talc	Inhalation	pneumoconiosis	Causes damage to organs through prolonged or repeated exposure		NOAEL N/A	
Talc	Inhalation	pulmonary fibrosis respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 18 mg/m3	113 weeks
Calcium carbonate			No data available			
Styrene	Inhalation	eyes	Causes damage to organs through		NOAEL N/A	

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			prolonged or repeated exposure			
Styrene	Inhalation	nervous system	May cause damage to organs though prolonged or repeated exposure		NOAEL N/A	
Styrene	Inhalation	auditory system	May cause damage to organs though prolonged or repeated exposure		NOAEL 1.3 mg/l	
Styrene	Inhalation	liver	May cause damage to organs though prolonged or repeated exposure		LOAEL 0.85 mg/l	
Styrene	Inhalation	endocrine system	Some positive data exist, but the data are not sufficient for classification		LOEL 0.6 mg/l	
Styrene	Inhalation	hematopoietic system	Some positive data exist, but the data are not sufficient for classification		LOEL 0.21 mg/l	
Styrene	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification		LOAEL 0.09 mg/l	
Styrene	Inhalation	heart bone, teeth, nails, and/or hair muscles kidney and/or bladder	All data are negative		NOAEL 4.3 mg/l	
Styrene	Ingestion	nervous system	Some positive data exist, but the data are not sufficient for classification		LOAEL 500 mg/kg/day	
Styrene	Ingestion	immune system	Some positive data exist, but the data are not sufficient for classification		LOEL 0.5 mg/kg/day	
Styrene	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		LOEL 400 mg/kg/day	
Styrene	Ingestion	hematopoietic system liver	Some positive data exist, but the data are not sufficient for classification		LOEL 200 mg/kg/day	
Styrene	Ingestion	heart respiratory system	All data are negative		NOAEL 35 mg/kg/day	
Silicon	Inhalation	respiratory	All data are	Human	NOAEL Not	occupational

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dioxide		system silicosis	negative		available	exposure
Carbon black	Inhalation	heart	Some positive data exist, but the data are not sufficient for classification		NOEL N/A	
Carbon black	Inhalation	pneumoconiosis	Some positive data exist, but the data are not sufficient for classification		NOAEL N/A	

Aspiration Hazard

Name	Value
Talc	Not an aspiration hazard
Calcium carbonate	Not an aspiration hazard
Styrene	Not an aspiration hazard
Silicon dioxide	Not an aspiration hazard
Carbon black	Not an 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 terrestrial vertebrates**

9.3C Terrestrial vertebrate toxicity

No product test data available.

No component test data available.

12.2. Persistence and degradability

No test data available.

12.3 : Bioaccumulative potential

No test data available.

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

3M Plastifil Plastic Filler 1kg

Incinerate in a permitted waste incineration facility. 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

AS-0105-7891-7

NEW ZEALAND LAND TRANSPORT
UN1866, RESIN SOLUTION, 3, III, LIMITED QUANTITY

IATA
UN1866, RESIN SOLUTION, 3, III

IMO
UN1866, RESIN SOLUTION, 3, III, LIMITED QUANTITY

SECTION 15: Regulatory information

HSNO Approval number	HSR002669
Group standard name	Surface Coatings and Colourants (Flammable, Toxic [6.7]) Group Standard 2006
HSNO Hazard classification	Refer to section 2

NZ Inventory of Chemicals (NZIoC) Status

HSNO Controls

Approved handler test certificate	Not required
Location and transit Depot certification test	500 L (closed containers greater than 5 L) 1,500 L (closed containers up to and including 5 L) 250 L (open containers)
Hazardous atmosphere zone	100 L (closed containers) 25 L (decanting) 5 L (open occasionally) 1 L (open containers in continuous use)
Fire extinguishers	Two required for 500 L
Emergency response plan	100 L (for a HSNO 9.1A substance); or 1,000 L (for a HSNO 6.1D, 6.5A, 6.5B, 9.1B or 9.1C substance); or 10,000 L (for all other substances)
Secondary containment	100 L (for a HSNO 9.1A substance); or 1,000 L (for a HSNO 6.1D, 6.5A, 6.5B, 9.1B or 9.1C substance); or 10,000 L (for all other substances)
Tracking	Not required
Warning signage	100 L (for a HSNO 9.1A substance) or 1,000 L (for all other substances)

SECTION 16: Other information

Revision information:

Revision Changes:

Section 1: Product name was modified.

Section 8: Respiratory protection - recommended respirators information was modified.

Section 8: Respiratory protection - recommended respirators was modified.

Page Heading: Product name was modified.

Section 2: Ingredient table was modified.

Section 3: Composition table % by Wt Column heading was modified.

Section 9: Flammability (solid, gas) information was modified.

Aspiration Hazard Table was modified.
Section 11: Acute Toxicity table was modified.
Carcinogenicity Table was modified.
Serious Eye Damage/Irritation Table was modified.
Germ Cell Mutagenicity Table was modified.
Skin Sensitisation Table was modified.
Respiratory Sensitisation Table was modified.
Reproductive Toxicity Table was modified.
Skin Corrosion/Irritation Table was modified.
Target Organs - Repeated Table was modified.
Target Organs - Single Table was modified.
Section 5: Fire - Extinguishing media information was modified.
Section 6: Accidental release personal information was modified.
Section 6: Accidental release clean-up information was modified.
Section 7: Precautions safe handling information was modified.
Section 7: Conditions safe storage was modified.
Section 13: Standard Phrase Category Waste GHS was modified.
Section 8: Eye protection standard information was modified.
Section 8: Respiratory protection standard information was modified.
Section 15: HSNO approval number. was modified.
Section 15: Hazardous Atmosphere Zone. was modified.
New Zealand Inventory of Chemicals. (NZIoC). was modified.
Section 2: NZ Precautionary Statements - Response was modified.
Section 2: NZ Classification statements (Transportation) was modified.
Section 8: Respiratory protection - recommended respirators guide was added.
Section 9: Flammability (solid, gas) information was added.
GHS Section 1.2 Recommended use and restrictions on use heading was added.
GHS Section 1.2 Recommended use heading was added.
GHS Section 1.3 Supplier's details heading was added.
GHS MSDS Issue Date heading was added.
GHSSDS Section 13.1. Disposal methods heading was added.
GHSSDS Section 14 Header was added.
GHS Section 5.1: Suitable extinguishing media heading was added.
GHS Section 5.3: Special protective actions for fire-fighters heading was added.
Section 1: 1.2. Relevant identified uses of the substance or mixture and uses advised against heading was deleted.
Section 1: 1.3. Details of the supplier of the substance or mixture heading was deleted.
Section 5: 5.1. Extinguishing media heading was deleted.
Section 5: 5.3. Advice for fire-fighters was deleted.
Revision date text was deleted.
Section 14: Main heading was deleted.
Section 11: UN GHS Classification table heading was deleted.
Section 1: Identified uses header was deleted.
Section 13: 13.1. Waste treatment method heading was deleted.

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3M Plastifil Plastic Filler 1kg

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Safety Data Sheet

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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) and as amended

SECTION 1: Identification

1.1. Product identifier

3M Hardener Red

Product identification numbers

AS-0192-8493-9 AS-0192-8662-9 AS-0192-8663-7

1.2. Recommended use and restrictions on use

Recommended use

Automotive.

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.

Classified as a Dangerous Good according to; NZS 5433:2012 Transport of Dangerous Goods on Land, UN, IMDG and IATA.

HSNO classification

5.2E Organic peroxide: Type E

6.4A Irritating to the eye

6.5B Skin sensitiser

6.9A Toxic to human target organs/systems

9.1A Aquatic toxicity

9.3C Terrestrial vertebrate toxicity

2.2. Label elements

SIGNAL WORD

DANGER!

Symbols:

Flame | Health Hazard | Exclamation mark | Environment |

Pictograms



HAZARD STATEMENTS:

H242	Heating may cause a fire.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H372	Causes damage to organs through prolonged or repeated exposure: respiratory system
H400	Very toxic to aquatic life.
H433	Harmful to terrestrial vertebrates.

PRECAUTIONARY STATEMENTS

General:

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.

Prevention:

P104	Read Safety Data Sheet before use.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P220	Keep away from clothing and other combustible materials.
P234	Keep only in original container.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280A	Wear eye/face protection.
P280B	Wear protective gloves and eye/face protection.
P280E	Wear protective gloves.
P270	Do not eat, drink or smoke when using this product.
P264	Wash thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.

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.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P321	Specific treatment (see Notes to Physician on this label).
P314	Get medical advice/attention if you feel unwell.

3M Hardener Red

P391 Collect spillage.

Storage:

P410 Protect from sunlight.
P411 + P235 Store at temperatures not exceeding 4C. Keep cool.
P420 Store away from other materials.

Disposal:

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

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	% by Weight
Dibenzoyl peroxide	94-36-0	30 - 60
Dimethyl siloxane, reaction product with silica	Trade Secret	10 - 30
Dimethyl phthalate	131-11-3	25 - 28
Water	7732-18-5	7 - 13
diiron trioxide	Trade Secret	< 5

SECTION 4: First aid measures

4.1. Description of first aid measures

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.

Skin contact

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Inhalation

Remove person to fresh air. If you feel unwell, 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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam.

5.2. Special hazards arising from the substance or mixture

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

3M Hardener Red

Hazardous Decomposition or By-Products

<u>Substance</u>	<u>Condition</u>
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.
Irritant vapours or gases.	During combustion.

5.3. Special protective actions for fire-fighters

No unusual fire or explosion hazards are anticipated.

5.4. Hazchem code: 1W

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. 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. Collect as much of the spilled material as possible using non-sparking tools. Sweep up. Vacuum or sweep up. Warning: A motor could be an ignition source and cause flammable gases or vapours or dust in the spill area to burn or explode.

SECTION 7: Handling and storage

Refer to Section 15 - HSNO controls for more information

7.1. Precautions for safe handling

Avoid eye contact. For industrial or professional use only. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage including any incompatibilities

Protect from sunlight. Store at temperatures not exceeding 4°C. Keep only in original container. Store away from acids. Store away from other materials. Keep/store away from clothing and other combustible materials.

7.3. Approved handler test certificate

Class 5, required when present in quantities greater than 10 L or 10 kg (HSNO 5.2E substance)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
diiron trioxide	1309-37-1	New Zealand WES	TWA(as Fe, dust and fume)(8 hours):5 mg/m ³	
Dimethyl phthalate	131-11-3	New Zealand	TWA(8 hours):5 mg/m ³	

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Dibenzoyl peroxide 94-36-0 WES
New Zealand TWA(8 hours):5 mg/m³
WES

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

Wear protective gloves and eye/face protection. Wear eye/face protection.
The following eye protection(s) are recommended: 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

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

The following protective clothing material(s) are recommended: Neoprene apron.

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 vapors and particulates

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	Solid.
Specific Physical Form:	Paste
Appearance/Odour	Characteristic odour Red
pH	<i>No data available.</i>
Boiling point/boiling range	<i>No data available.</i>
Melting point	<i>No data available.</i>
Flammability (solid, gas)	Organic Peroxide: Type E.
Explosive properties	Not classified
Oxidising properties	Not classified

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Flash point	No flash point [<i>Test Method</i> :Closed Cup]
Autoignition temperature	<i>No data available.</i>
Flammable Limits(LEL)	<i>Not applicable.</i>
Flammable Limits(UEL)	<i>Not applicable.</i>
Vapour pressure	100 Pa [<i>@ 20 °C</i>]
Relative density	1.3 [<i>Ref Std</i> :WATER=1]
Water solubility	Nil
Partition coefficient: n-octanol/water	<i>Not applicable.</i>
Evaporation rate	<i>No data available.</i>
Vapour density	<i>No data available.</i>
Viscosity	<i>No data available.</i>
Density	1.3 g/ml

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

Reducing agents.

Strong acids.

Strong bases.

10.6 Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
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None known.	
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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 Hardener Red

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

Eye contact

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

Skin contact

Contact with the skin during product use is not expected to result in significant irritation. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching. May cause target organ effects after skin contact.

Inhalation

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Ingestion

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea.

Target Organ Effects:

Pneumoconiosis: Sign/symptoms may include persistent cough, breathlessness, chest pain, increased amounts of sputum, and changes in lung function tests.

Toxicological Data**Acute Toxicity**

Name	Route	Species	Value
Overall product	Ingestion		No test data available; calculated ATE >5,000 mg/kg
Dibenzoyl peroxide	Dermal		LD50 estimated to be 2,000 - 5,000 mg/kg
Dimethyl phthalate			No data available
Dimethyl siloxane, reaction product with silica	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
diiron trioxide	Dermal		LD50 3,100 mg/kg
diiron trioxide	Inhalation-Dust/Mist (4 hours)		LC50 0.96 mg/l
diiron trioxide	Ingestion		LD50 3,700 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Dibenzoyl peroxide	Rabbit	Minimal irritation
Dimethyl phthalate		No data available
Dimethyl siloxane, reaction product with silica		No data available
diiron trioxide		No data available

Serious Eye Damage/Irritation

Name	Species	Value
Dibenzoyl peroxide	Rabbit	Severe irritant
Dimethyl phthalate		No data available
Dimethyl siloxane, reaction product with silica		No data available
diiron trioxide		No data available

Skin Sensitisation

Name	Species	Value
Dibenzoyl peroxide	Human and animal	Sensitising
Dimethyl phthalate		No data available
Dimethyl siloxane, reaction product with silica		No data available

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diiron trioxide		No data available
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Respiratory Sensitisation

Name	Species	Value
Dibenzoyl peroxide		No data available
Dimethyl phthalate		No data available
Dimethyl siloxane, reaction product with silica		No data available
diiron trioxide		No data available

Germ Cell Mutagenicity

Name	Route	Value
Dibenzoyl peroxide		No data available
Dimethyl phthalate		No data available
Dimethyl siloxane, reaction product with silica		No data available
diiron trioxide		No data available

Carcinogenicity

Name	Route	Species	Value
Dibenzoyl peroxide			No data available
Dimethyl phthalate			No data available
Dimethyl siloxane, reaction product with silica			No data available
diiron trioxide			No data available

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

Name	Route	Value	Species	Test result	Exposure Duration
Dibenzoyl peroxide		No data available			
Dimethyl phthalate		No data available			
Dimethyl siloxane, reaction product with silica		No data available			
diiron trioxide		No data available			

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

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Dibenzoyl peroxide			No data available			
Dimethyl phthalate			No data available			
Dimethyl siloxane, reaction product with silica			No data available			
diiron trioxide	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
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Dibenzoyl peroxide			No data available			
Dimethyl phthalate			No data available			
Dimethyl siloxane, reaction product with silica			No data available			
diiron trioxide	Inhalation	pneumoconiosis	Causes damage to organs through prolonged or repeated exposure		LOAEL 0.01 mg/l	

Aspiration Hazard

Name	Value
Dibenzoyl peroxide	Not an aspiration hazard
Dimethyl phthalate	Not an aspiration hazard
Dimethyl siloxane, reaction product with silica	Not an aspiration hazard
diiron trioxide	Not an 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.**

9.1A Aquatic toxicity

Ecotoxic to terrestrial vertebrates

9.3C Terrestrial vertebrate toxicity

No product test data available.

No component test data available.

12.2. Persistence and degradability

No test data available.

12.3 : Bioaccumulative potential

No test data available.

12.4. Mobility in soil

Please contact manufacturer for more details

12.5 Other adverse effects

No information available.

SECTION 13: Disposal considerations

3M Hardener Red

13.1. Disposal methods

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

Incinerate in a permitted waste incineration facility. Dispose of waste product in a permitted industrial waste 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

AS-0192-8493-9, AS-0192-8662-9, AS-0192-8663-7.

NEW ZEALAND LAND TRANSPORT:

UN3108, ORGANIC PEROXIDE TYPE E, SOLID, (Dibenzoyl peroxide (as a paste), <= 52%), 5.2, II, LIMITED QUANTITY.

IATA:

UN3108, ORGANIC PEROXIDE TYPE E, SOLID, (Dibenzoyl peroxide (as a paste), <= 52%), 5.2, II. Keep away from heat sources. Shade from direct sunlight. Keep well ventilated.

IMO:

UN3108, ORGANIC PEROXIDE TYPE E, SOLID, (Dibenzoyl peroxide (as a paste), <= 52%), 5.2, II, LIMITED QUANTITY, MARINE POLLUTANT, (Benzoyl peroxide).

SECTION 15: Regulatory information

HSNO Approval number HSR002629
Group standard name Organic Peroxides Group Standard 2006
HSNO Hazard classification Refer to section 2

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 5, required when present in quantities greater than 10 L or 10 kg (HSNO 5.2E substance)
Location and transit Depot certification test	25 kg
Hazardous atmosphere zone	Not required
Fire extinguishers	One required for 50 L or 50 kg
Emergency response plan	100 L or 100 kg
Secondary containment	100 L or 100 kg
Tracking	Not required
Warning signage	10 L or 10 kg

SECTION 16: Other information

Revision information:

No revision information is available.

3M Hardener Red

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