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™ Perfect-It™ Gelcoat Medium Cutting Compound + Wax, 36105, 36106, 36107

Product Identification Numbers

60-4551-0932-6	60-4551-0933-4	60-4551-0934-2
7100210711	7100210899	7100210893

1.2. Recommended use and restrictions on use

Recommended use

Automotive

For Industrial or Professional use only.

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, in accordance with applicable State and Territory legislation.

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

2.1. Classification of the substance or mixture

Skin Sensitizer: Category 1A.

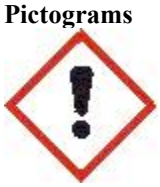
2.2. Label elements

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
Warning

Symbols
Exclamation mark |

Pictograms



Hazard statements

H317	May cause an allergic skin reaction.

Precautionary statements

Prevention:

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280E	Wear protective gloves.

Response:

P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.

Disposal:

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

2.3. Other assigned/identified product hazards

Aspiration does not apply - viscosity Aspiration hazard classification does not apply due to the kinematic viscosity of the product. Aspiration classification does not apply due to the viscosity of the product.

2.4. Other hazards which do not result in classification

Causes mild skin irritation.
Harmful to aquatic life with long lasting effects.

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	CAS Nbr	% by Weight
Water	7732-18-5	30 - 60
Aluminum Oxide (non-fibrous)	1344-28-1	10 - 30
Hydrotreated Light Petroleum Distillates	64742-47-8	10 - 30
Polyethylene Glycol Sorbitan Monooleate	9005-65-6	3 - 7
Polyethylene-Polypropylene Glycol	9003-11-6	1 - 5

Amino Alkyl Polysiloxane	Trade Secret	1 - 5
Poly(Dimethylsiloxane)	63148-62-9	1 - 5
Mineral Oil	8042-47-5	0.5 - 1.5
Glycerin	56-81-5	0.5 - 1.5
Diethanolamine	111-42-2	<= 0.25
Methylisothiazolinone	2682-20-4	< 0.009
2-Octyl-2H-isothiazol-3-one	26530-20-1	< 0.007

SECTION 4: First aid measures

4.1. Description of first aid measures

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

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

Eye contact
No need for first aid is anticipated. 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

Allergic skin reaction (redness, swelling, blistering, and itching).

4.3. Indication of any immediate medical attention and special treatment required
Not applicable

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	Condition
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.

5.3. Special protective actions for fire-fighters
No special protective actions for fire-fighters are anticipated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a

sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS. Evacuate area. 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.

6.2. Environmental precautions
Avoid release to the environment. For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up
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. Place in a closed 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

7.1. Precautions for safe handling
Keep out of reach of children. Do not handle until all safety precautions have been read and understood. 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. Use personal protective equipment (eg. gloves, respirators…) as required.

7.2. Conditions for safe storage including any incompatibilities
No special storage requirements.

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
Diethanolamine	111-42-2	ACGIH	TWA(inhalable fraction and vapour):1 mg/m3	A3: Confirmed animal carcinogen. Danger of cutaneous absorption.
Diethanolamine	111-42-2	Australia OELs	TWA(8 hours): 13 mg/m3 (3 ppm)	
Aluminum Oxide (non-fibrous)	1344-28-1	Australia OELs	TWA(Inspirable dust)(8 hours):10 mg/m3	
Glycerin	56-81-5	Australia OELs	TWA(Inspirable dust)(8 hours):10 mg/m3	

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
CEIL: Ceiling
Sen: Sensitiser
Sk: Absorption through the skin may be a significant source of exposure.

8.2. Exposure controls

8.2.1. Engineering controls
No engineering controls required.

8.2.2. Personal protective equipment (PPE)

Eye/face protection
None required.

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. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

Gloves made from the following material(s) are recommended: Polymer laminate

If this product is used in a manner that presents a higher potential for exposure (e.g., spraying, high splash potential, etc.), then use of a protective apron may be necessary. See recommended glove material(s) for determining appropriate apron material(s). If a glove material is not available as an apron, polymer laminate is a suitable option.

Select and use gloves according to AS/NZ 2161.

Respiratory protection
None required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Specific Physical Form:	Gel
Colour	White
Odour	Slight Solvent
Odour threshold	*No data available.*
pH	7.5 - 9
Melting point/Freezing point	*No data available.*
Boiling point/Initial boiling point/Boiling range	*No data available.*
Flash point	No flash point
Evaporation rate	*No data available.*
Flammability	Not applicable.
Flammable Limits(LEL)	*No data available.*
Flammable Limits(UEL)	*No data available.*
Vapour pressure	*No data available.*
Relative Vapor Density	*No data available.*
Density	1.1 - 1.1 kg/l [*Ref Std:*WATER=1]
Relative density	1.05 - 1.1 [*Ref Std:*WATER=1]
Water solubility	*No data available.*
Solubility- non-water	*No data available.*
Partition coefficient: n-octanol/water	*No data available.*

Autoignition temperature	*No data available.*
Decomposition temperature	*No data available.*
Kinematic Viscosity	32,558 mm²/sec
Volatile organic compounds (VOC)	14.5 % weight [*Test Method:*calculated per CARB title 2]
Percent volatile	59.3 % weight
VOC less H2O & exempt solvents	315 g/l [*Test Method:*calculated SCAQMD rule 443.1]
Molecular weight	*Not applicable.*

Particle Characteristics	*Not applicable.*

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. Conditions to avoid
None known.

10.4. Possibility of hazardous reactions
Hazardous polymerisation will not occur.

10.5 Incompatible materials
None known.

10.6 Hazardous decomposition products

Substance	**Condition**
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:

Inhalation
No known health effects.

Skin contact
Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching. May cause additional health effects (see below).

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:

Reproductive/Developmental Toxicity:
Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

Carcinogenicity:
Contains a chemical or chemicals which can cause cancer.

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	Inhalation-Vapour(4 hr)		No data available; calculated ATE >50 mg/l
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Aluminum Oxide (non-fibrous)	Dermal		LD50 estimated to be > 5,000 mg/kg
Aluminum Oxide (non-fibrous)	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 2.3 mg/l
Aluminum Oxide (non-fibrous)	Ingestion	Rat	LD50 > 5,000 mg/kg
Hydrotreated Light Petroleum Distillates	Ingestion	Rat	LD50 > 15,000 mg/kg
Hydrotreated Light Petroleum Distillates	Dermal	similar compounds	LD50 > 5,000 mg/kg
Polyethylene Glycol Sorbitan Monooleate	Dermal	Not available	LD50 > 5,000 mg/kg
Polyethylene Glycol Sorbitan Monooleate	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.1 mg/l
Polyethylene Glycol Sorbitan Monooleate	Ingestion	Rat	LD50 20,000 mg/kg
Polyethylene-Polypropylene Glycol	Dermal	similar compounds	LD50 > 2,000 mg/kg
Polyethylene-Polypropylene Glycol	Ingestion	similar compounds	LD50 > 5,000 mg/kg
Poly(Dimethylsiloxane)	Dermal	Multiple animal species	LD50 > 2,000 mg/kg
Poly(Dimethylsiloxane)	Ingestion	Rat	LD50 > 5,000 mg/kg
Mineral Oil	Dermal	Rabbit	LD50 > 2,000 mg/kg
Mineral Oil	Ingestion	Rat	LD50 > 5,000 mg/kg
Glycerin	Dermal	Rabbit	LD50 estimated to be > 5,000 mg/kg
Glycerin	Ingestion	Rat	LD50 > 5,000 mg/kg
Diethanolamine	Dermal	Rabbit	LD50 8,180 mg/kg
Diethanolamine	Ingestion	Rat	LD50 1,410 mg/kg
Methylisothiazolinone	Dermal	Rat	LD50 242 mg/kg
Methylisothiazolinone	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.11 mg/l
Methylisothiazolinone	Ingestion	Rat	LD50 120 mg/kg
2-Octyl-2H-isothiazol-3-one	Dermal	Rabbit	LD50 311 mg/kg
2-Octyl-2H-isothiazol-3-one	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.27 mg/l
2-Octyl-2H-isothiazol-3-one	Ingestion	Rat	LD50 125 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Aluminum Oxide (non-fibrous)	Rabbit	No significant irritation
Hydrotreated Light Petroleum Distillates	similar compounds	Mild irritant
Polyethylene Glycol Sorbitan Monooleate	Rabbit	No significant irritation
Polyethylene-Polypropylene Glycol	similar compounds	No significant irritation
Poly(Dimethylsiloxane)	Human and animal	No significant irritation
Mineral Oil	Rabbit	No significant irritation
Glycerin	Rabbit	No significant irritation
Diethanolamine	Rabbit	Irritant
Methylisothiazolinone	Rabbit	Corrosive
2-Octyl-2H-isothiazol-3-one	Rabbit	Corrosive

Serious Eye Damage/Irritation

Name	Species	Value
Aluminum Oxide (non-fibrous)	Rabbit	No significant irritation
Hydrotreated Light Petroleum Distillates	similar compounds	No significant irritation
Polyethylene Glycol Sorbitan Monooleate	Rabbit	No significant irritation
Polyethylene-Polypropylene Glycol	similar compounds	No significant irritation
Poly(Dimethylsiloxane)	Rabbit	No significant irritation
Mineral Oil	Rabbit	Mild irritant
Glycerin	Rabbit	No significant irritation
Diethanolamine	Rabbit	Corrosive
Methylisothiazolinone	Rabbit	Corrosive
2-Octyl-2H-isothiazol-3-one	similar health hazards	Corrosive

Skin Sensitisation

Name	Species	Value
Hydrotreated Light Petroleum Distillates	similar compounds	Not classified
Polyethylene Glycol Sorbitan Monooleate	Guinea pig	Not classified
Polyethylene-Polypropylene Glycol	Guinea pig	Not classified
Poly(Dimethylsiloxane)	Human and animal	Not classified
Mineral Oil	Guinea pig	Not classified
Glycerin	Guinea pig	Not classified
Diethanolamine	Human and animal	Not classified
Methylisothiazolinone	Human and animal	Sensitising
2-Octyl-2H-isothiazol-3-one	Human and animal	Sensitising

Photosensitisation

Name	Species	Value
Methylisothiazolinone	Human and animal	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
Aluminum Oxide (non-fibrous)	In Vitro	Not mutagenic
Hydrotreated Light Petroleum Distillates	In Vitro	Not mutagenic
Polyethylene Glycol Sorbitan Monooleate	In Vitro	Not mutagenic
Polyethylene-Polypropylene Glycol	In Vitro	Not mutagenic
Poly(Dimethylsiloxane)	In Vitro	Not mutagenic

Poly(Dimethylsiloxane)	In vivo	Not mutagenic
Mineral Oil	In Vitro	Not mutagenic
Diethanolamine	In Vitro	Not mutagenic
Methylisothiazolinone	In vivo	Not mutagenic
Methylisothiazolinone	In Vitro	Some positive data exist, but the data are not sufficient for classification
2-Octyl-2H-isothiazol-3-one	In Vitro	Not mutagenic
2-Octyl-2H-isothiazol-3-one	In vivo	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Aluminum Oxide (non-fibrous)	Inhalation	Rat	Not carcinogenic
Polyethylene Glycol Sorbitan Monooleate	Ingestion	Rat	Some positive data exist, but the data are not sufficient for classification
Poly(Dimethylsiloxane)	Dermal	Mouse	Not carcinogenic
Poly(Dimethylsiloxane)	Ingestion	Mouse	Not carcinogenic
Mineral Oil	Dermal	Mouse	Not carcinogenic
Mineral Oil	Inhalation	Multiple animal species	Not carcinogenic
Glycerin	Ingestion	Mouse	Some positive data exist, but the data are not sufficient for classification
Diethanolamine	Dermal	Mouse	Carcinogenic.
Methylisothiazolinone	Dermal	Mouse	Not carcinogenic
Methylisothiazolinone	Ingestion	Rat	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Polyethylene Glycol Sorbitan Monooleate	Ingestion	Not classified for female reproduction	Rat	NOAEL 6,666 mg/kg/day	3 generation
Polyethylene Glycol Sorbitan Monooleate	Ingestion	Not classified for male reproduction	Rat	NOAEL 6,666 mg/kg/day	3 generation
Polyethylene Glycol Sorbitan Monooleate	Ingestion	Not classified for development	Rat	NOAEL 5,000 mg/kg/day	during organogenesis
Poly(Dimethylsiloxane)	Ingestion	Not classified for development	Rat	NOAEL 3,800 mg/kg/day	during organogenesis
Poly(Dimethylsiloxane)	Dermal	Not classified for development	Rabbit	NOAEL 1,000 mg/kg/day	during organogenesis
Mineral Oil	Ingestion	Not classified for female reproduction	Rat	NOAEL 4,350 mg/kg/day	13 weeks
Mineral Oil	Ingestion	Not classified for male reproduction	Rat	NOAEL 4,350 mg/kg/day	13 weeks
Mineral Oil	Ingestion	Not classified for development	Rat	NOAEL 4,350 mg/kg/day	during gestation
Glycerin	Ingestion	Not classified for female reproduction	Rat	NOAEL 2,000 mg/kg/day	2 generation
Glycerin	Ingestion	Not classified for male reproduction	Rat	NOAEL 2,000 mg/kg/day	2 generation

Glycerin	Ingestion	Not classified for development	Rat	NOAEL 2,000 mg/kg/day	2 generation
Diethanolamine	Ingestion	Not classified for male reproduction	Rat	NOAEL 128 mg/kg/day	1 generation
Diethanolamine	Dermal	Not classified for development	Rabbit	NOAEL 100 mg/kg/day	during organogenesis
Diethanolamine	Inhalation	Not classified for development	Rat	NOAEL 0.05 mg/l	during organogenesis
Diethanolamine	Ingestion	Toxic to female reproduction	Rat	NOAEL 38 mg/kg/day	1 generation
Diethanolamine	Ingestion	Toxic to development	Rat	NOAEL 38 mg/kg/day	1 generation
Methylisothiazolinone	Ingestion	Not classified for female reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
Methylisothiazolinone	Ingestion	Not classified for male reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
Methylisothiazolinone	Ingestion	Not classified for development	Rat	NOAEL 15 mg/kg/day	during organogenesis
2-Octyl-2H-isothiazol-3-one	Ingestion	Not classified for development	Rabbit	NOEL 20 mg/kg/day	during organogenesis

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Hydrotreated Light Petroleum Distillates	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Diethanolamine	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL not available	
Diethanolamine	Ingestion	kidney and/or bladder	May cause damage to organs	Rat	NOAEL 200 mg/kg	
Diethanolamine	Ingestion	central nervous system depression	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 200 mg/kg	not applicable
Diethanolamine	Ingestion	liver	Not classified	Rat	NOAEL 1,600 mg/kg	not applicable
Methylisothiazolinone	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	
2-Octyl-2H-isothiazol-3-one	Inhalation	respiratory irritation	May cause respiratory irritation	Rat	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Aluminum Oxide (non-fibrous)	Inhalation	pneumoconiosis	Some positive data exist, but the data are not sufficient for	Human	NOAEL Not available	occupational exposure

			classification			
Aluminum Oxide (non-fibrous)	Inhalation	pulmonary fibrosis	Not classified	Human	NOAEL Not available	occupational exposure
Hydrotreated Light Petroleum Distillates	Inhalation	liver	Not classified	Rat	NOAEL 6 mg/l	13 weeks
Hydrotreated Light Petroleum Distillates	Inhalation	kidney and/or bladder	Not classified	Rat	LOAEL 1.5 mg/l	13 weeks
Hydrotreated Light Petroleum Distillates	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 6 mg/l	13 weeks
Hydrotreated Light Petroleum Distillates	Ingestion	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
Hydrotreated Light Petroleum Distillates	Ingestion	kidney and/or bladder	Not classified	Rat	LOAEL 100 mg/kg/day	13 weeks
Hydrotreated Light Petroleum Distillates	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
Hydrotreated Light Petroleum Distillates	Ingestion	eyes	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
Polyethylene Glycol Sorbitan Monooleate	Ingestion	heart	Not classified	Rat	NOAEL 4,132 mg/kg/day	90 days
Polyethylene Glycol Sorbitan Monooleate	Ingestion	endocrine system	Not classified	Rat	NOAEL 4,132 mg/kg/day	90 days
Polyethylene Glycol Sorbitan Monooleate	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 4,132 mg/kg/day	90 days
Polyethylene Glycol Sorbitan Monooleate	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 4,132 mg/kg/day	90 days
Polyethylene Glycol Sorbitan Monooleate	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 4,132 mg/kg/day	90 days
Polyethylene Glycol Sorbitan Monooleate	Ingestion	liver	Not classified	Rat	NOAEL 4,132 mg/kg/day	90 days
Polyethylene Glycol Sorbitan Monooleate	Ingestion	immune system	Not classified	Rat	NOAEL 4,132 mg/kg/day	90 days
Polyethylene	Ingestion	nervous system	Not classified	Rat	NOAEL 4,132	90 days

Glycol Sorbitan Monooleate					mg/kg/day	
Polyethylene Glycol Sorbitan Monooleate	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 4,132 mg/kg/day	90 days
Polyethylene Glycol Sorbitan Monooleate	Ingestion	respiratory system	Not classified	Rat	NOAEL 4,132 mg/kg/day	90 days
Poly(Dimethylsiloxane)	Ingestion	eyes	Not classified	Rat	NOAEL 10% in the diet	90 days
Poly(Dimethylsiloxane)	Ingestion	respiratory system	Not classified	Rat	NOAEL 1% in the diet	90 days
Poly(Dimethylsiloxane)	Ingestion	gastrointestinal tract	Not classified	Multiple animal species	NOAEL 10% in the diet	90 days
Poly(Dimethylsiloxane)	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 10% in the diet	90 days
Poly(Dimethylsiloxane)	Ingestion	heart	Not classified	Rat	NOAEL 1% in the diet	90 days
Poly(Dimethylsiloxane)	Ingestion	liver	Not classified	Rat	NOAEL 1% in the diet	90 days
Poly(Dimethylsiloxane)	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1% in the diet	90 days
Poly(Dimethylsiloxane)	Ingestion	vascular system	Not classified	Rat	NOAEL 1% in the diet	90 days
Mineral Oil	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,381 mg/kg/day	90 days
Mineral Oil	Ingestion	liver	Not classified	Rat	NOAEL 1,336 mg/kg/day	90 days
Mineral Oil	Ingestion	immune system	Not classified	Rat	NOAEL 1,336 mg/kg/day	90 days
Glycerin	Inhalation	respiratory system	Not classified	Rat	NOAEL 3.91 mg/l	14 days
Glycerin	Inhalation	heart	Not classified	Rat	NOAEL 3.91 mg/l	14 days
Glycerin	Inhalation	liver	Not classified	Rat	NOAEL 3.91 mg/l	14 days
Glycerin	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 3.91 mg/l	14 days
Glycerin	Ingestion	endocrine system	Not classified	Rat	NOAEL 10,000 mg/kg/day	2 years
Glycerin	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 10,000 mg/kg/day	2 years
Glycerin	Ingestion	liver	Not classified	Rat	NOAEL 10,000 mg/kg/day	2 years
Glycerin	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 10,000 mg/kg/day	2 years
Diethanolamine	Dermal	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 63 mg/kg/day	13 weeks
Diethanolamine	Dermal	liver	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Diethanolamine	Dermal	nervous system	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Diethanolamine	Dermal	kidney and/or bladder	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks

Diethanolamine	Dermal	skin	Not classified	Rat	NOAEL 250 mg/kg/day	13 weeks
Diethanolamine	Dermal	heart	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Diethanolamine	Dermal	endocrine system	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Diethanolamine	Dermal	gastrointestinal tract	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Diethanolamine	Dermal	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Diethanolamine	Dermal	immune system	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Diethanolamine	Dermal	muscles	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Diethanolamine	Dermal	eyes	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Diethanolamine	Dermal	respiratory system	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Diethanolamine	Dermal	vascular system	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Diethanolamine	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks
Diethanolamine	Inhalation	liver	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks
Diethanolamine	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks
Diethanolamine	Inhalation	respiratory system	Not classified	Rat	LOAEL 0.015 mg/l	13 weeks
Diethanolamine	Inhalation	heart	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks
Diethanolamine	Inhalation	skin	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks
Diethanolamine	Inhalation	endocrine system	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks
Diethanolamine	Inhalation	gastrointestinal tract	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks
Diethanolamine	Inhalation	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks
Diethanolamine	Inhalation	immune system	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks
Diethanolamine	Inhalation	muscles	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks
Diethanolamine	Inhalation	nervous system	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks
Diethanolamine	Inhalation	eyes	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks
Diethanolamine	Inhalation	vascular system	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks
Diethanolamine	Ingestion	hematopoietic system	May cause damage to organs though prolonged or repeated exposure	Rat	NOAEL 15 mg/kg/day	13 weeks
Diethanolamine	Ingestion	nervous system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 57 mg/kg/day	13 weeks
Diethanolamine	Ingestion	endocrine system	Not classified	Rat	NOAEL 240 mg/kg/day	13 weeks

Diethanolamine	Ingestion	liver	Not classified	Rat	NOAEL 240 mg/kg/day	13 weeks
Diethanolamine	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 240 mg/kg/day	13 weeks
Diethanolamine	Ingestion	heart	Not classified	Rat	NOAEL 240 mg/kg/day	13 weeks
Diethanolamine	Ingestion	skin	Not classified	Rat	NOAEL 240 mg/kg/day	13 weeks
Diethanolamine	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 240 mg/kg/day	13 weeks
Diethanolamine	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 240 mg/kg/day	13 weeks
Diethanolamine	Ingestion	immune system	Not classified	Rat	NOAEL 240 mg/kg/day	13 weeks
Diethanolamine	Ingestion	muscles	Not classified	Rat	NOAEL 240 mg/kg/day	13 weeks
Diethanolamine	Ingestion	eyes	Not classified	Rat	NOAEL 240 mg/kg/day	13 weeks
Diethanolamine	Ingestion	respiratory system	Not classified	Rat	NOAEL 240 mg/kg/day	13 weeks
Diethanolamine	Ingestion	vascular system	Not classified	Rat	NOAEL 240 mg/kg/day	13 weeks

Aspiration Hazard

Name	Value
Hydrotreated Light Petroleum Distillates	Aspiration hazard
Mineral Oil	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 3: Harmful to aquatic life.

Chronic aquatic hazard:
GHS Chronic 3: Harmful to aquatic life with long lasting effects.

No product test data available.

Material	CAS Number	Organism	Type	Exposure	Test endpoint	Test result
Aluminum Oxide (non-fibrous)	1344-28-1	N/A	Experimental	96 hours	LC50	>100 mg/l
Aluminum Oxide (non-fibrous)	1344-28-1	Green algae	Experimental	72 hours	EC50	>100 mg/l
Aluminum Oxide	1344-28-1	Water flea	Experimental	48 hours	LC50	>100 mg/l

(non-fibrous)						
Aluminum Oxide (non-fibrous)	1344-28-1	Green algae	Experimental	72 hours	NOEC	>100 mg/l
Hydrotreated Light Petroleum Distillates	64742-47-8	Green algae	Experimental	72 hours	EL50	>1,000 mg/l
Hydrotreated Light Petroleum Distillates	64742-47-8	Rainbow trout	Experimental	96 hours	LL50	>1,000 mg/l
Hydrotreated Light Petroleum Distillates	64742-47-8	Water flea	Experimental	48 hours	EL50	>1,000 mg/l
Hydrotreated Light Petroleum Distillates	64742-47-8	Green algae	Experimental	72 hours	NOEL	1,000 mg/l
Polyethylene Glycol Sorbitan Monooleate	9005-65-6	Green algae	Analogous Compound	72 hours	EL50	58.84 mg/l
Polyethylene Glycol Sorbitan Monooleate	9005-65-6	Zebra Fish	Analogous Compound	96 hours	LL50	>100 mg/l
Polyethylene Glycol Sorbitan Monooleate	9005-65-6	Green algae	Analogous Compound	72 hours	EL10	19.05 mg/l
Polyethylene Glycol Sorbitan Monooleate	9005-65-6	Water flea	Analogous Compound	21 days	NOEL	10 mg/l
Poly(Dimethylsiloxane)	63148-62-9	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Polyethylene-Polypropylene Glycol	9003-11-6	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Glycerin	56-81-5	Rainbow trout	Experimental	96 hours	LC50	54,000 mg/l
Glycerin	56-81-5	Water flea	Experimental	48 hours	LC50	1,955 mg/l
Glycerin	56-81-5	Bacteria	Experimental	16 hours	NOEC	10,000 mg/l
Mineral Oil	8042-47-5	Water flea	Analogous Compound	48 hours	EL50	>100 mg/l
Mineral Oil	8042-47-5	Bluegill	Experimental	96 hours	LL50	>100 mg/l
Mineral Oil	8042-47-5	Green algae	Analogous Compound	72 hours	NOEL	100 mg/l
Mineral Oil	8042-47-5	Water flea	Analogous Compound	21 days	NOEL	>100 mg/l
Diethanolamine	111-42-2	Brine shrimp	Experimental	24 hours	EC50	2,800 mg/l
Diethanolamine	111-42-2	Diatom	Experimental	72 hours	EC50	86.96 mg/l
Diethanolamine	111-42-2	Green algae	Experimental	72 hours	ErC50	9.5 mg/l
Diethanolamine	111-42-2	Rainbow trout	Experimental	96 hours	LC50	460 mg/l
Diethanolamine	111-42-2	Sheepshead Minnow	Experimental	96 hours	LC50	>589 mg/l
Diethanolamine	111-42-2	Water flea	Experimental	48 hours	EC50	30.1 mg/l
Diethanolamine	111-42-2	Diatom	Experimental	72 hours	NOEC	<16 mg/l
Diethanolamine	111-42-2	Green algae	Experimental	72 hours	ErC10	1.4 mg/l
Diethanolamine	111-42-2	Water flea	Experimental	21 days	NOEC	0.78 mg/l
Diethanolamine	111-42-2	Activated sludge	Experimental	30 minutes	EC10	>1,000 mg/l
Diethanolamine	111-42-2	Plant	Experimental	21 days	EC50	1,632 mg/kg (Dry Weight)
Diethanolamine	111-42-2	Redworm	Experimental	63 days	EC50	776 mg/kg (Dry Weight)
Diethanolamine	111-42-2	Springtail	Experimental	28 days	EC50	4,205 mg/kg (Dry Weight)
Methylisothiazolinone	2682-20-4	Diatom	Experimental	72 hours	ErC50	0.099 mg/l
Methylisothiazolinone	2682-20-4	Green algae	Experimental	96 hours	ErC50	0.23 mg/l
Methylisothiazolinone	2682-20-4	Mysid Shrimp	Experimental	96 hours	LC50	1.81 mg/l
Methylisothiazolinone	2682-20-4	Sheepshead Minnow	Experimental	96 hours	LC50	25.1 mg/l
Methylisothiazolinone	2682-20-4	Water flea	Experimental	48 hours	LC50	0.934 mg/l

Methylisothiazolinone	2682-20-4	Blackworm	Experimental	28 days	NOEC	25 mg/kg (Dry Weight)
Methylisothiazolinone	2682-20-4	Diatom	Experimental	72 hours	ErC10	0.04 mg/l
Methylisothiazolinone	2682-20-4	Fathead minnow	Experimental	33 days	NOEC	2.1 mg/l
Methylisothiazolinone	2682-20-4	Green algae	Experimental	96 hours	NOEC	0.12 mg/l
Methylisothiazolinone	2682-20-4	Water flea	Experimental	21 days	NOEC	0.044 mg/l
Methylisothiazolinone	2682-20-4	Activated sludge	Experimental	3 hours	EC50	41 mg/l
2-Octyl-2H-isothiazol-3-one	26530-20-1	Diatom	Experimental	72 hours	EC50	0.0015 mg/l
2-Octyl-2H-isothiazol-3-one	26530-20-1	Green algae	Experimental	72 hours	EC50	0.084 mg/l
2-Octyl-2H-isothiazol-3-one	26530-20-1	Mysid Shrimp	Experimental	96 hours	LC50	0.071 mg/l
2-Octyl-2H-isothiazol-3-one	26530-20-1	Rainbow trout	Experimental	96 hours	LC50	0.036 mg/l
2-Octyl-2H-isothiazol-3-one	26530-20-1	Sheepshead Minnow	Experimental	96 hours	LC50	0.18 mg/l
2-Octyl-2H-isothiazol-3-one	26530-20-1	Water flea	Experimental	48 hours	EC50	0.42 mg/l
2-Octyl-2H-isothiazol-3-one	26530-20-1	Diatom	Experimental	72 hours	NOEC	0.00068 mg/l
2-Octyl-2H-isothiazol-3-one	26530-20-1	Green algae	Experimental	72 hours	NOEC	0.0156 mg/l
2-Octyl-2H-isothiazol-3-one	26530-20-1	Water flea	Experimental	21 days	NOEC	0.0016 mg/l
2-Octyl-2H-isothiazol-3-one	26530-20-1	Activated sludge	Experimental	3 hours	EC50	30.4 mg/l
2-Octyl-2H-isothiazol-3-one	26530-20-1	Bobwhite quail	Experimental	14 days	LD50	384 ppm diet
2-Octyl-2H-isothiazol-3-one	26530-20-1	Lettuce	Experimental	17 days	EC50	45 mg/kg (Dry Weight)
2-Octyl-2H-isothiazol-3-one	26530-20-1	Redworm	Experimental	14 days	LC50	866 mg/kg (Dry Weight)
2-Octyl-2H-isothiazol-3-one	26530-20-1	Soil microbes	Experimental	28 days	EC50	84.1 mg/kg (Dry Weight)

12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Aluminum Oxide (non-fibrous)	1344-28-1	Data not available-insufficient	N/A	N/A	N/A	N/A
Hydrotreated Light Petroleum Distillates	64742-47-8	Estimated Biodegradation	28 days	BOD	69 %BOD/ThOD	OECD 301F - Manometric respirometry
Polyethylene Glycol Sorbitan Monooleate	9005-65-6	Experimental Biodegradation	28 days	CO2 evolution	61 %CO2 evolution/THCO2 evolution	ISO 14593 Inorg C Headspace
Poly(Dimethylsiloxane)	63148-62-9	Data not available-insufficient	N/A	N/A	N/A	N/A
Polyethylene-Polypropylene Glycol	9003-11-6	Data not available-insufficient	N/A	N/A	N/A	N/A
Glycerin	56-81-5	Experimental Biodegradation	14 days	BOD	63 %BOD/ThOD	OECD 301C - MITI test (I)
Mineral Oil	8042-47-5	Experimental Biodegradation	28 days	CO2 evolution	0 %CO2 evolution/THCO2	OECD 301B - Modified sturm or CO2

					evolution	
Diethanolamine	111-42-2	Experimental Biodegradation	28 days	BOD	93 %BOD/ThOD	OECD 301F - Manometric respirometry
Diethanolamine	111-42-2	Experimental Biodegradation	9 days	Dissolv. Organic Carbon Deplet	98 %removal of DOC	OECD 302B Zahn-Wellens/EVPA
Methylisothiazolinone	2682-20-4	Experimental Biodegradation	29 days	CO2 evolution	50 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
Methylisothiazolinone	2682-20-4	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	>1 years (t 1/2)	OECD 111 Hydrolysis func of pH
2-Octyl-2H-isothiazol-3-one	26530-20-1	Experimental Biodegradation	28 days	BOD	< 10 %BOD/ThOD	OECD 301D - Closed bottle test
2-Octyl-2H-isothiazol-3-one	26530-20-1	Experimental Aquatic Inherent Biodegrad.	59 days	Dissolv. Organic Carbon Deplet	88 %removal of DOC	OECD 303A - Simulated Aerobic

12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Aluminum Oxide (non-fibrous)	1344-28-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Hydrotreated Light Petroleum Distillates	64742-47-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Polyethylene Glycol Sorbitan Monooleate	9005-65-6	Modeled Bioconcentration		Bioaccumulation factor	5	Catalogic™
Polyethylene Glycol Sorbitan Monooleate	9005-65-6	Modeled Bioconcentration		Log Kow	5.61	Episuite™
Poly(Dimethylsiloxane)	63148-62-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Polyethylene-Polypropylene Glycol	9003-11-6	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Glycerin	56-81-5	Experimental Bioconcentration		Log Kow	-1.75	similar to OECD 107
Mineral Oil	8042-47-5	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Diethanolamine	111-42-2	Experimental Bioconcentration		Log Kow	-2.18	OECD 107 log Kow shke flsk mtd
Methylisothiazolinone	2682-20-4	Analogous Compound BCF - Fish	56 days	Bioaccumulation factor	5.75	
Methylisothiazolinone	2682-20-4	Experimental Bioconcentration		Log Kow	-0.486	OECD 107 log Kow shke flsk mtd
2-Octyl-2H-isothiazol-3-one	26530-20-1	Experimental Bioconcentration		Log Kow	2.92	OECD 117 log Kow HPLC method

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.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. If no other disposal options are available, waste product may be placed in a landfill properly designed for industrial waste.

SECTION 14: Transport Information

Australian Dangerous Goods Code (ADG) - Road/Rail Transport
UN No.: Not applicable.
Proper shipping name: Not applicable.
Class/Division: Not applicable.
Sub Risk: Not applicable.
Packing Group: Not applicable.

Hazchem Code: Not applicable
IERG: Not applicable.

International Air Transport Association (IATA) - Air Transport
UN No.: Not applicable.
Proper shipping name: Not applicable.
Class/Division: Not applicable.
Sub Risk: Not applicable.
Packing Group: Not applicable.

International Maritime Dangerous Goods Code (IMDG)- Marine Transport
UN No.: Not applicable.
Proper shipping name: Not applicable.
Class/Division: Not applicable.
Sub Risk: Not applicable.
Packing Group: Not applicable.
Marine Pollutant: Not applicable.

SECTION 15: Regulatory information

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

Australian Inventory Status:
All components of this product are listed on or exempt from the Australian Inventory of Industrial Chemicals (AIIC). Conditions may apply prior to introduction for direct importers of this product, Please contact 3M Australia on 136 136 for further details.

Poison Schedule: This product is intended for Industrial or Professional Use only and therefore is not packaged and labelled in accordance with the requirements of the Standard for the Uniform Scheduling of Medicines and Poisons.

SECTION 16: Other information

Revision information:
Complete document review.

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