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™ Machine Polish, PN 05986, 05996, 39009, 39809

Product Identification Numbers
60-4550-6917-3

1.2. Recommended use and restrictions on use

Recommended use
Automotive, Automotive Polish

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 NOT 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
Not applicable.

2.2. Label elements

Signal word
Not applicable.

Symbols
Not applicable.

Pictograms
Not applicable

2.3. Other assigned/identified product hazards
None known.

2.4. Other hazards which do not result in classification
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	60 - 80
Distillates (petroleum), acid-treated light	64742-14-9	7 - 13
Aluminum Oxide (non-fibrous)	1344-28-1	5 - 10
Decamethylcyclopentasiloxane	541-02-6	1 - 10
Dodecamethylcyclohexasiloxane	540-97-6	1 - 10
Distillates (petroleum), hydrotreated light	64742-47-8	3 - 7
Kaolin, calcined	92704-41-1	1 - 5
White Mineral Oil (Petroleum)	8042-47-5	0.5 - 1.5
Carbon black	1333-86-4	< 0.1
Glycerin	56-81-5	< 1
Poly(Oxy-1,2-Ethanediyl),.Alpha.-Undecyl-.Omega.-Hydroxy-	34398-01-1	< 0.5
Triethanolamine	102-71-6	< 0.5
Acrylic Polymer	Trade Secret	< 0.5
1,2-Benzisothiazolin-3-One	2634-33-5	< 0.1

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation
Remove person to fresh air. If you are concerned, get medical advice.

Skin contact
Wash with soap and water. If you are concerned, get medical advice.

Eye contact
No need for first aid is anticipated.

If swallowed
Rinse mouth. If you are concerned, get medical advice.

4.2. Most important symptoms and effects, both acute and delayed
No critical symptoms or effects. 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 to extinguish.

5.2. Special hazards arising from the substance or mixture
Closed containers exposed to heat from fire may build pressure and explode.

Hazardous Decomposition or By-Products

Substance	Condition
Hydrocarbons.	During combustion.
Formaldehyde	During combustion.
Carbon monoxide.	During combustion.
Carbon dioxide.	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. Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
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. 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. 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
Contain spill. 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. 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 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
Triethanolamine	102-71-6	ACGIH	TWA:5 mg/m3	
Triethanolamine	102-71-6	Australia OELs	TWA(8 hours):5 mg/m3	
Aluminum Oxide (non-fibrous)	1344-28-1	Australia OELs	TWA(Inspirable dust)(8 hours):10 mg/m3	
Aluminum, insoluble compounds	1344-28-1	ACGIH	TWA(respirable fraction):1 mg/m3	A4: Not class. as human carcin
Decamethylcyclopentasiloxane	541-02-6	AIHA	TWA:10 ppm	
Glycerin	56-81-5	Australia OELs	TWA(Inspirable dust)(8 hours):10 mg/m3	
Kerosine (petroleum)	64742-47-8	ACGIH	TWA(as total hydrocarbon vapour, non-aerosol):200 mg/m3	A3: Confirmed animal carcin., SKIN
MINERAL OILS, HIGHLY-REFINED OILS	8042-47-5	ACGIH	TWA(inhalable fraction):5 mg/m3	A4: Not class. as human carcin
Paraffin oil	8042-47-5	Australia OELs	TWA(as mist)(8 hours):5 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

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: Butyl rubber.
Neoprene.
Natural rubber.

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.
Colour	Grey
Odour	Slight Solvent
Odour threshold	*No data available.*
pH	7.5 - 8.5
Melting point/Freezing point	*No data available.*
Boiling point/Initial boiling point/Boiling range	100 ºC
Flash point	>=93.3 ºC [*Test Method:*Closed Cup]
Evaporation rate	*No data available.*
Flammability (solid, gas)	Not applicable.
Flammable Limits(LEL)	*No data available.*
Flammable Limits(UEL)	*No data available.*
Vapour pressure	2,399.8 Pa
Vapor Density and/or Relative Vapor Density	*No data available.*
Density	0.958 - 1.006 g/ml
Relative density	0.958 - 1.006 [*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.*
Viscosity/Kinematic Viscosity	16,000 - 20,000 mPa-s [*Test Method:*Brookfield]
Volatile organic compounds (VOC)	14.7 % weight [*Test Method:*calculated per CARB title 2]
Percent volatile	81.6 % weight
VOC less H2O & exempt solvents	453 g/l [*Test Method:*calculated SCAQMD rule 443.1]
Molecular weight	*No data available.*

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
Light.

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

10.5 Incompatible materials
Strong acids.
Strong oxidising agents.

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
Contact with the skin during product use is not expected to result in significant irritation. 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
May cause additional health effects (see below).

Additional Health Effects:

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	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Inhalation-Dust/Mist(4 hr)		No data available; calculated ATE >12.5 mg/l
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Decamethylcyclopentasiloxane	Dermal	Rabbit	LD50 > 15,000 mg/kg
Decamethylcyclopentasiloxane	Inhalation-Dust/Mist (4 hours)	Rat	LC50 8.7 mg/l
Decamethylcyclopentasiloxane	Ingestion	Rat	LD50 > 24,134 mg/kg
Distillates (petroleum), acid-treated light	Inhalation-Vapour	Professional judgement	LC50 estimated to be 20 - 50 mg/l

Distillates (petroleum), acid-treated light	Dermal	Rabbit	LD50 > 5,000 mg/kg
Distillates (petroleum), acid-treated light	Ingestion	Rat	LD50 > 5,000 mg/kg
Dodecamethylcyclohexasiloxane	Dermal	Rat	LD50 > 2,000 mg/kg
Dodecamethylcyclohexasiloxane	Ingestion	Rat	LD50 > 50,000 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
Distillates (petroleum), hydrotreated light	Inhalation-Vapour	Professional judgement	LC50 estimated to be 20 - 50 mg/l
Distillates (petroleum), hydrotreated light	Dermal	Rabbit	LD50 > 5,000 mg/kg
Distillates (petroleum), hydrotreated light	Ingestion	Rat	LD50 > 5,000 mg/kg
Kaolin, calcined	Dermal		LD50 estimated to be 2,000 - 5,000 mg/kg
Kaolin, calcined	Ingestion	Rat	LD50 > 2,000 mg/kg
White Mineral Oil (Petroleum)	Dermal	Rabbit	LD50 > 2,000 mg/kg
White Mineral Oil (Petroleum)	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
Triethanolamine	Dermal	Rabbit	LD50 > 2,000 mg/kg
Triethanolamine	Ingestion	Rat	LD50 9,000 mg/kg
Poly(Oxy-1,2-Ethanediyl),.Alpha.-Undecyl-.Omega.-Hydroxy-	Dermal	Rabbit	LD50 > 2,000 mg/kg
Poly(Oxy-1,2-Ethanediyl),.Alpha.-Undecyl-.Omega.-Hydroxy-	Ingestion	Rat	LD50 > 700 mg/kg
1,2-Benzisothiazolin-3-One	Dermal	Rat	LD50 > 2,000 mg/kg
1,2-Benzisothiazolin-3-One	Ingestion	Rat	LD50 454 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
Decamethylcyclopentasiloxane	Rabbit	No significant irritation
Distillates (petroleum), acid-treated light	Rabbit	Minimal irritation
Dodecamethylcyclohexasiloxane	Rabbit	No significant irritation
Aluminum Oxide (non-fibrous)	Rabbit	No significant irritation
Distillates (petroleum), hydrotreated light	Rabbit	Mild irritant
White Mineral Oil (Petroleum)	Rabbit	No significant irritation
Glycerin	Rabbit	No significant irritation
Triethanolamine	Rabbit	Minimal irritation
Poly(Oxy-1,2-Ethanediyl),.Alpha.-Undecyl-.Omega.-Hydroxy-	similar health hazards	Irritant
1,2-Benzisothiazolin-3-One	Rabbit	No significant irritation
Carbon black	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Decamethylcyclopentasiloxane	Rabbit	No significant irritation
Distillates (petroleum), acid-treated light	Rabbit	Mild irritant
Dodecamethylcyclohexasiloxane	Rabbit	No significant irritation
Aluminum Oxide (non-fibrous)	Rabbit	No significant irritation

Distillates (petroleum), hydrotreated light	Rabbit	Mild irritant
White Mineral Oil (Petroleum)	Rabbit	Mild irritant
Glycerin	Rabbit	No significant irritation
Triethanolamine	Rabbit	Mild irritant
Poly(Oxy-1,2-Ethanediyl),.Alpha.-Undecyl-.Omega.-Hydroxy-	Professional judgement	Corrosive
1,2-Benzisothiazolin-3-One	Rabbit	Corrosive
Carbon black	Rabbit	No significant irritation

Skin Sensitisation

Name	Species	Value
Decamethylcyclopentasiloxane	Mouse	Not classified
Distillates (petroleum), acid-treated light	Guinea pig	Not classified
Distillates (petroleum), hydrotreated light	Guinea pig	Not classified
White Mineral Oil (Petroleum)	Guinea pig	Not classified
Glycerin	Guinea pig	Not classified
Triethanolamine	Human	Not classified
1,2-Benzisothiazolin-3-One	Guinea pig	Sensitising

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
Decamethylcyclopentasiloxane	In Vitro	Not mutagenic
Decamethylcyclopentasiloxane	In vivo	Not mutagenic
Distillates (petroleum), acid-treated light	In Vitro	Not mutagenic
Distillates (petroleum), acid-treated light	In vivo	Not mutagenic
Aluminum Oxide (non-fibrous)	In Vitro	Not mutagenic
Distillates (petroleum), hydrotreated light	In Vitro	Not mutagenic
Distillates (petroleum), hydrotreated light	In vivo	Not mutagenic
White Mineral Oil (Petroleum)	In Vitro	Not mutagenic
Triethanolamine	In Vitro	Not mutagenic
Triethanolamine	In vivo	Not mutagenic
1,2-Benzisothiazolin-3-One	In vivo	Not mutagenic
1,2-Benzisothiazolin-3-One	In Vitro	Some positive data exist, but the data are not sufficient for classification
Carbon black	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
Decamethylcyclopentasiloxane	Inhalation	Rat	Some positive data exist, but the data are not sufficient for classification
Distillates (petroleum), acid-treated light	Not specified.	Not available	Not carcinogenic
Aluminum Oxide (non-fibrous)	Inhalation	Rat	Not carcinogenic
Distillates (petroleum), hydrotreated light	Not specified.	Not available	Not carcinogenic
White Mineral Oil (Petroleum)	Dermal	Mouse	Not carcinogenic
White Mineral Oil (Petroleum)	Inhalation	Multiple animal species	Not carcinogenic
Glycerin	Ingestion	Mouse	Some positive data exist, but the data are not sufficient for classification

Triethanolamine	Dermal	Multiple animal species	Not carcinogenic
Triethanolamine	Ingestion	Mouse	Some positive data exist, but the data are not sufficient for classification
Carbon black	Dermal	Mouse	Not carcinogenic
Carbon black	Ingestion	Mouse	Not carcinogenic
Carbon black	Inhalation	Rat	Carcinogenic.

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Decamethylcyclopentasiloxane	Inhalation	Not classified for female reproduction	Rat	NOAEL 2.43 mg/l	2 generation
Decamethylcyclopentasiloxane	Inhalation	Not classified for male reproduction	Rat	NOAEL 2.43 mg/l	2 generation
Decamethylcyclopentasiloxane	Inhalation	Not classified for development	Rat	NOAEL 2.43 mg/l	2 generation
Distillates (petroleum), acid-treated light	Not specified.	Not classified for female reproduction	Rat	NOAEL Not available	1 generation
Distillates (petroleum), acid-treated light	Not specified.	Not classified for male reproduction	Rat	NOAEL Not available	1 generation
Distillates (petroleum), acid-treated light	Not specified.	Not classified for development	Rat	NOAEL Not available	1 generation
Dodecamethylcyclohexasiloxane	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
Dodecamethylcyclohexasiloxane	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	28 days
Dodecamethylcyclohexasiloxane	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
Distillates (petroleum), hydrotreated light	Not specified.	Not classified for female reproduction	Rat	NOAEL Not available	1 generation
Distillates (petroleum), hydrotreated light	Not specified.	Not classified for male reproduction	Rat	NOAEL Not available	1 generation
Distillates (petroleum), hydrotreated light	Not specified.	Not classified for development	Rat	NOAEL Not available	1 generation
White Mineral Oil (Petroleum)	Ingestion	Not classified for female reproduction	Rat	NOAEL 4,350 mg/kg/day	13 weeks
White Mineral Oil (Petroleum)	Ingestion	Not classified for male reproduction	Rat	NOAEL 4,350 mg/kg/day	13 weeks
White Mineral Oil (Petroleum)	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
Triethanolamine	Ingestion	Not classified for development	Mouse	NOAEL 1,125 mg/kg/day	during organogenesis
1,2-Benzisothiazolin-3-One	Ingestion	Not classified for female reproduction	Rat	NOAEL 112 mg/kg/day	2 generation
1,2-Benzisothiazolin-3-One	Ingestion	Not classified for male reproduction	Rat	NOAEL 112 mg/kg/day	2 generation
1,2-Benzisothiazolin-3-One	Ingestion	Not classified for development	Rat	NOAEL 112 mg/kg/day	2 generation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Poly(Oxy-1,2-Ethanediyl),. Alpha.-Undecyl-.Omega.-Hydroxy-	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	
1,2-Benzisothiazolin-3-One	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Decamethylcyclopentasiloxane	Dermal	hematopoietic system | eyes	Not classified	Rat	NOAEL 1,600 mg/kg/day	28 days
Decamethylcyclopentasiloxane	Inhalation	hematopoietic system | respiratory system | liver | eyes | kidney and/or bladder	Not classified	Rat	NOAEL 2.42 mg/l	2 years
Decamethylcyclopentasiloxane	Ingestion	liver | immune system | respiratory system | heart | hematopoietic system | kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days
Dodecamethylcyclohexasiloxane	Ingestion	endocrine system | liver | respiratory system | nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
Aluminum Oxide (non-fibrous)	Inhalation	pneumoconiosis	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
Aluminum	Inhalation	pulmonary	Not classified	Human	NOAEL Not	occupational

Oxide (non-fibrous)		fibrosis			available	exposure
White Mineral Oil (Petroleum)	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,381 mg/kg/day	90 days
White Mineral Oil (Petroleum)	Ingestion	liver | immune system	Not classified	Rat	NOAEL 1,336 mg/kg/day	90 days
Glycerin	Inhalation	respiratory system | heart | liver | kidney and/or bladder	Not classified	Rat	NOAEL 3.91 mg/l	14 days
Glycerin	Ingestion	endocrine system | hematopoietic system | liver | kidney and/or bladder	Not classified	Rat	NOAEL 10,000 mg/kg/day	2 years
Triethanolamine	Dermal	kidney and/or bladder	Not classified	Multiple animal species	NOAEL 2,000 mg/kg/day	2 years
Triethanolamine	Dermal	liver	Not classified	Mouse	NOAEL 4,000 mg/kg/day	13 weeks
Triethanolamine	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 1,000 mg/kg/day	2 years
Triethanolamine	Ingestion	liver	Not classified	Guinea pig	NOAEL 1,600 mg/kg/day	24 weeks
1,2-Benzisothiazolin-3-One	Ingestion	liver | hematopoietic system | eyes | kidney and/or bladder | respiratory system	Not classified	Rat	NOAEL 322 mg/kg/day	90 days
1,2-Benzisothiazolin-3-One	Ingestion	heart | endocrine system | nervous system	Not classified	Rat	NOAEL 150 mg/kg/day	28 days
Carbon black	Inhalation	pneumoconiosis	Not classified	Human	NOAEL Not available	occupational exposure

Aspiration Hazard

Name	Value
Distillates (petroleum), acid-treated light	Aspiration hazard
Distillates (petroleum), hydrotreated light	Aspiration hazard
White Mineral Oil (Petroleum)	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
Distillates (petroleum), acid-treated light	64742-14-9	Green algae	Estimated	72 hours	EL50	>1,000 mg/l
Distillates (petroleum), acid-treated light	64742-14-9	Rainbow trout	Estimated	96 hours	LL50	>1,000 mg/l
Distillates (petroleum), acid-treated light	64742-14-9	Water flea	Estimated	48 hours	EL50	>1,000 mg/l
Distillates (petroleum), acid-treated light	64742-14-9	Green algae	Estimated	72 hours	NOEL	>1,000 mg/l
Aluminum Oxide (non-fibrous)	1344-28-1		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 (non-fibrous)	1344-28-1	Water flea	Experimental	48 hours	LC50	>100 mg/l
Aluminum Oxide (non-fibrous)	1344-28-1	Green algae	Experimental	72 hours	NOEC	>100 mg/l
Decamethylcyclopentasiloxane	541-02-6	Activated sludge	Experimental	3 hours	EC50	>2,000 mg/l
Decamethylcyclopentasiloxane	541-02-6	Green algae	Experimental	96 hours	EC50	>100 mg/l
Decamethylcyclopentasiloxane	541-02-6	Rainbow trout	Experimental	96 hours	LC50	>100 mg/l
Decamethylcyclopentasiloxane	541-02-6	Water flea	Experimental	48 hours	EC50	>100 mg/l
Decamethylcyclopentasiloxane	541-02-6	Green algae	Experimental	96 hours	NOEC	100 mg/l
Decamethylcyclopentasiloxane	541-02-6	Rainbow trout	Experimental	90 days	NOEC	100 mg/l
Decamethylcyc	541-02-6	Water flea	Experimental	21 days	NOEC	100 mg/l

lopentasiloxane						
Dodecamethylcyclohexasiloxane	540-97-6	Activated sludge	Experimental	3 hours	EC50	>100 mg/l
Dodecamethylcyclohexasiloxane	540-97-6	Green algae	Experimental	72 hours	EC50	>100 mg/l
Dodecamethylcyclohexasiloxane	540-97-6	Fathead minnow	Experimental	49 days	NOEC	100 mg/l
Dodecamethylcyclohexasiloxane	540-97-6	Green algae	Experimental	72 hours	NOEC	100 mg/l
Dodecamethylcyclohexasiloxane	540-97-6	Water flea	Experimental	21 days	NOEC	100 mg/l
Distillates (petroleum), hydrotreated light	64742-47-8	Green algae	Experimental	72 hours	EL50	>1,000 mg/l
Distillates (petroleum), hydrotreated light	64742-47-8	Rainbow trout	Experimental	96 hours	LL50	>1,000 mg/l
Distillates (petroleum), hydrotreated light	64742-47-8	Water flea	Experimental	48 hours	EL50	>1,000 mg/l
Distillates (petroleum), hydrotreated light	64742-47-8	Green algae	Experimental	72 hours	NOEL	1,000 mg/l
Kaolin, calcined	92704-41-1	Bacteria	Estimated	16 hours	EC10	1,400 mg/l
Kaolin, calcined	92704-41-1	Green algae	Estimated	72 hours	EC50	2,500 mg/l
Kaolin, calcined	92704-41-1	Water flea	Estimated	48 hours	EC50	>100 mg/l
Kaolin, calcined	92704-41-1	Zebra Fish	Estimated	96 hours	LC50	>100 mg/l
Kaolin, calcined	92704-41-1	Green algae	Estimated	72 hours	EC10	41 mg/l
Kaolin, calcined	92704-41-1	Rainbow trout	Estimated	30 days	NOEC	100 mg/l
White Mineral Oil (Petroleum)	8042-47-5	Water flea	Estimated	48 hours	EL50	>100 mg/l
White Mineral Oil (Petroleum)	8042-47-5	Bluegill	Experimental	96 hours	LL50	>100 mg/l
White Mineral Oil (Petroleum)	8042-47-5	Green algae	Estimated	72 hours	NOEL	100 mg/l
White Mineral Oil (Petroleum)	8042-47-5	Water flea	Estimated	21 days	NOEL	>100 mg/l
Carbon black	1333-86-4	Activated sludge	Experimental	3 hours	EC50	>=100 mg/l

Carbon black	1333-86-4		Data not available or insufficient for classification			N/A
Glycerin	56-81-5	Bacteria	Experimental	16 hours	NOEC	10,000 mg/l
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
Acrylic Polymer	Trade Secret		Data not available or insufficient for classification			N/A
Poly(Oxy-1,2-Ethanediyl),.Alpha.-Undecyl-.Omega.-Hydroxy-	34398-01-1	Fathead minnow	Experimental	96 hours	LC50	1.63 mg/l
Poly(Oxy-1,2-Ethanediyl),.Alpha.-Undecyl-.Omega.-Hydroxy-	34398-01-1	Green algae	Experimental	96 hours	EC50	2.9 mg/l
Poly(Oxy-1,2-Ethanediyl),.Alpha.-Undecyl-.Omega.-Hydroxy-	34398-01-1	Water flea	Experimental	48 hours	EC50	2.1 mg/l
Poly(Oxy-1,2-Ethanediyl),.Alpha.-Undecyl-.Omega.-Hydroxy-	34398-01-1	Fathead minnow	Experimental	30 days	NOEC	0.73 mg/l
Poly(Oxy-1,2-Ethanediyl),.Alpha.-Undecyl-.Omega.-Hydroxy-	34398-01-1	Green algae	Experimental	96 hours	NOEC	1.2 mg/l
Triethanolamine	102-71-6	Activated sludge	Experimental	3 hours	IC50	>1,000 mg/l
Triethanolamine	102-71-6	Fathead minnow	Experimental	96 hours	LC50	11,800 mg/l
Triethanolamine	102-71-6	Green algae	Experimental	72 hours	EC50	512 mg/l
Triethanolamine	102-71-6	Water flea	Experimental	48 hours	EC50	609.98 mg/l
Triethanolamine	102-71-6	Green algae	Experimental	72 hours	EC10	26 mg/l
Triethanolamine	102-71-6	Water flea	Experimental	21 days	NOEC	16 mg/l
1,2-Benzisothiazolin-3-One	2634-33-5	Green algae	Experimental	72 hours	EC50	0.11 mg/l
1,2-Benzisothiazolin-3-One	2634-33-5	Pacific oyster	Experimental	48 hours	EC50	0.062 mg/l
1,2-	2634-33-5	Rainbow trout	Experimental	96 hours	LC50	1.6 mg/l

Benzisothiazolin-3-One						
1,2-Benzisothiazolin-3-One	2634-33-5	Water flea	Experimental	48 hours	EC50	2.9 mg/l
1,2-Benzisothiazolin-3-One	2634-33-5	Green algae	Experimental	72 hours	NOEC	0.0403 mg/l
1,2-Benzisothiazolin-3-One	2634-33-5	Bobwhite quail	Experimental	14 days	LD50	617 mg per kg of bodyweight

12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Distillates (petroleum), acid-treated light	64742-14-9	Estimated Biodegradation	28 days	BOD	69 %BOD/ThBOD	OECD 301F - Manometric respirometry
Aluminum Oxide (non-fibrous)	1344-28-1	Data not available-insufficient	N/A	N/A	N/A	N/A
Decamethylcyclopentasiloxane	541-02-6	Experimental Photolysis		Photolytic half-life (in air)	20.4 days (t 1/2)	Non-standard method
Decamethylcyclopentasiloxane	541-02-6	Experimental Hydrolysis		Hydrolytic half-life	66 days (t 1/2)	Non-standard method
Decamethylcyclopentasiloxane	541-02-6	Experimental Biodegradation	28 days	CO2 evolution	0.14 % weight	OECD 310 CO2 Headspace
Dodecamethylcyclohexasiloxane	540-97-6	Experimental Biodegradation	28 days	CO2 evolution	4.47 % weight	OECD 310 CO2 Headspace
Distillates (petroleum), hydrotreated light	64742-47-8	Estimated Biodegradation	28 days	BOD	69 %BOD/ThBOD	OECD 301F - Manometric respirometry
Kaolin, calcined	92704-41-1	Data not available-insufficient	N/A	N/A	N/A	N/A
White Mineral Oil (Petroleum)	8042-47-5	Experimental Biodegradation	28 days	CO2 evolution	0 % weight	OECD 301B - Modified sturm or CO2
Carbon black	1333-86-4	Data not available-insufficient	N/A	N/A	N/A	N/A
Glycerin	56-81-5	Experimental Biodegradation	14 days	BOD	63 %BOD/ThBOD	OECD 301C - MITI test (I)
Acrylic Polymer	Trade Secret	Data not available-insufficient	N/A	N/A	N/A	N/A
Poly(Oxy-1,2-Ethanediyl),.Alpha.-Undecyl-.Omega.-Hydroxy-	34398-01-1	Experimental Biodegradation	28 days	BOD	80 % weight	OECD 301D - Closed bottle test
Triethanolamin	102-71-6	Experimental	19 days	Dissolv.	96 % weight	Non-standard method

e		Biodegradation		Organic Carbon Deplet		
1,2-Benzisothiazolin-3-One	2634-33-5	Experimental Biodegradation	28 days	BOD	0 %BOD/ThBOD	OECD 301C - MITI test (I)

12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Distillates (petroleum), acid-treated light	64742-14-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Aluminum Oxide (non-fibrous)	1344-28-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Decamethylcyclopentasiloxane	541-02-6	Experimental BCF - Fathead Minnow	35 days	Bioaccumulation factor	7060	OECD 305E - Bioaccumulation flow-through fish test
Dodecamethylcyclohexasiloxane	540-97-6	Experimental BCF - Fathead Minnow	49 days	Bioaccumulation factor	1160	OECD 305E - Bioaccumulation flow-through fish test
Distillates (petroleum), hydrotreated light	64742-47-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Kaolin, calcined	92704-41-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
White Mineral Oil (Petroleum)	8042-47-5	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Carbon black	1333-86-4	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Glycerin	56-81-5	Experimental Bioconcentration		Log Kow	-1.76	Non-standard method
Acrylic Polymer	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Poly(Oxy-1,2-Ethanediyl),.Alpha.-Undecyl-.Omega.-Hydroxy-	34398-01-1	Experimental BCF - Carp	10 days	Bioaccumulation factor	309	Non-standard method
Triethanolamine	102-71-6	Experimental BCF - Carp	42 days	Bioaccumulation factor	<3.9	Non-standard method
1,2-Benzisothiazoli	2634-33-5	Experimental BCF - Bluegill	56 days	Bioaccumulation factor	6.62	similar to OECD 305

n-3-One						
1,2-Benzisothiazolin-3-One	2634-33-5	Experimental Bioconcentration		Log Kow	1.45	OECD 107 log Kow shke flsk mtd

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. Dispose of waste product in a permitted industrial waste facility. Proper destruction may require the use of additional fuel during incineration processes.

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