



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

Scotchgard™ UHS 25 Floor Finish

Product Identification Numbers

70-0715-9148-4 70-0715-9154-2 70-0716-8337-2 70-0716-8338-0

1.2. Recommended use and restrictions on use

Recommended use

Hard floor maintenance.

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

Toxic to aquatic life. 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 - 90
Acrylic copolymer	Trade Secret	10 - 30
2-(2-Ethoxyethoxy)ethanol	111-90-0	1 - 5
Tris(2-butoxyethyl) phosphate	78-51-3	1 - 5
Acrylic copolymer	Trade Secret	0.5 - 1.5
Ethoxylated Alcohols	Trade Secret	0.5 - 1.5
Oxidized Ethylene Polymer	Trade Secret	0.5 - 1.5
Silicone Carboxylate, Potassium Salt	Trade Secret	0.5 - 1.5
Ammonia, aqueous solution	1336-21-6	< 1.0
Proprietary Stabilizer	Trade Secret	0.1 - 1
Zinc Ammonia Carbonate Complex	38714-47-5	< 0.5
Zinc	7440-66-6	< 0.2
2-Methyl-4-isothiazoline-3-one	2682-20-4	0 - 0.01
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	0 - 0.01
Poly(dimethylsiloxane)	63148-62-9	0 - 0.01

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 swallowed

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

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

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

<u>Substance</u>	<u>Condition</u>
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

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 water. 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

For industrial/occupational use only. Not for consumer sale or use. 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

Store away from heat.

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
Ammonia released from ammonium hydroxide/aqueous ammonia solutions		ACGIH	TWA:25 ppm;STEL:35 ppm	
Ammonia released from ammonium hydroxide/aqueous ammonia solutions		Australia OELs	TWA(8 hours):17 mg/m3(25 ppm);STEL(15 minutes):24 mg/m3(35 ppm)	
2-(2-Ethoxyethoxy)ethanol		AIHA	TWA:140 mg/m3(25 ppm)	
Proprietary Stabilizer	Trade Secret	Australia OELs	TWA(respirable fraction)(8 hours):2 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

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

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 (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

Select and use gloves according to AS/NZ 2161.

Respiratory protection

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

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

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

Select and use respirators according to AS/NZS 1715. Respirators should comply with AS/NZS 1716 performance specifications. For information about respirators, call 3M on 1800 024 464.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Colour	Milky White
Odour	Acrylic
Odour threshold	<i>No data available.</i>
pH	8.1 - 9.1
Melting point/Freezing point	<i>No data available.</i>
Boiling point/Initial boiling point/Boiling range	> 100 °C
Flash point	No flash point
Evaporation rate	<i>No data available.</i>
Flammability (solid, gas)	Not applicable.
Flammable Limits(LEL)	<i>No data available.</i>
Flammable Limits(UEL)	<i>No data available.</i>
Vapour pressure	<i>No data available.</i>
Vapor Density and/or Relative Vapor Density	<i>No data available.</i>
Density	<i>No data available.</i>
Relative density	Approximately 1 [Ref Std: WATER=1]
Water solubility	Complete
Solubility- non-water	<i>No data available.</i>
Partition coefficient: n-octanol/water	<i>No data available.</i>
Autoignition temperature	<i>No data available.</i>
Decomposition temperature	<i>No data available.</i>
Viscosity/Kinematic Viscosity	<i>No data available.</i>
Volatile organic compounds (VOC)	< 0.5 % weight
Percent volatile	
VOC less H2O & exempt solvents	140 - 160 g/l [Test Method:calculated per CARB title 2]

Nanoparticles

This material contains nanoparticles.

SECTION 10: Stability and reactivity**10.1 Reactivity**

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section

10.2 Chemical stability

Stable.

10.3. Conditions to avoid

Heat.

10.4. Possibility of hazardous reactions

Hazardous polymerisation will not occur.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products**Substance**

None known.

Condition**SECTION 11: Toxicological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1 Information on Toxicological effects

Signs and Symptoms of Exposure

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

Inhalation

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

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.

Eye contact

Vapours released during curing may cause eye irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Ingestion

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

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	Ingestion		No data available; calculated ATE >5,000 mg/kg
2-(2-Ethoxyethoxy)ethanol	Dermal	Rabbit	LD50 9,143 mg/kg
2-(2-Ethoxyethoxy)ethanol	Ingestion	Rat	LD50 5,400 mg/kg
Tris(2-butoxyethyl) phosphate	Dermal	Rabbit	LD50 > 5,000 mg/kg
Tris(2-butoxyethyl) phosphate	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 6.4 mg/l
Tris(2-butoxyethyl) phosphate	Ingestion	Rat	LD50 4,700 mg/kg
Oxidized Ethylene Polymer	Ingestion	Rat	LD50 > 2,500 mg/kg
Ammonia, aqueous solution	Ingestion	Rat	LD50 350 mg/kg
Zinc Ammonia Carbonate Complex	Dermal	Professional judgement	LD50 estimated to be > 5,000 mg/kg
Zinc Ammonia Carbonate Complex	Ingestion	Rat	LD50 > 2,000 mg/kg
Proprietary Stabilizer	Dermal	Rabbit	LD50 > 5,000 mg/kg
Proprietary Stabilizer	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
Proprietary Stabilizer	Ingestion	Rat	LD50 > 5,110 mg/kg
Zinc	Dermal	Professional judgement	LD50 estimated to be > 5,000 mg/kg
Zinc	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.41 mg/l
Zinc	Ingestion	Rat	LD50 > 2,000 mg/kg
Poly(dimethylsiloxane)	Dermal	Rabbit	LD50 > 19,400 mg/kg

Poly(dimethylsiloxane)	Ingestion	Rat	LD50 > 17,000 mg/kg
5-chloro-2-methyl-4-isothiazoline-3-one	Dermal	Rabbit	LD50 87 mg/kg
5-chloro-2-methyl-4-isothiazoline-3-one	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.33 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	Ingestion	Rat	LD50 40 mg/kg
2-Methyl-4-isothiazoline-3-one	Dermal	Rabbit	LD50 87 mg/kg
2-Methyl-4-isothiazoline-3-one	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.33 mg/l
2-Methyl-4-isothiazoline-3-one	Ingestion	Rat	LD50 40 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
2-(2-Ethoxyethoxy)ethanol	Rabbit	No significant irritation
Oxidized Ethylene Polymer	Professional judgement	No significant irritation
Ammonia, aqueous solution	Rabbit	Corrosive
Zinc Ammonia Carbonate Complex	In vitro data	Irritant
Proprietary Stabilizer	Rabbit	No significant irritation
Poly(dimethylsiloxane)	Rabbit	No significant irritation
5-chloro-2-methyl-4-isothiazoline-3-one	Rabbit	Corrosive
2-Methyl-4-isothiazoline-3-one	Rabbit	Corrosive

Serious Eye Damage/Irritation

Name	Species	Value
2-(2-Ethoxyethoxy)ethanol	Rabbit	Moderate irritant
Oxidized Ethylene Polymer	Professional judgement	No significant irritation
Ammonia, aqueous solution	Rabbit	Corrosive
Zinc Ammonia Carbonate Complex	In vitro data	Severe irritant
Proprietary Stabilizer	Rabbit	No significant irritation
Zinc	Rabbit	No significant irritation
Poly(dimethylsiloxane)	Rabbit	No significant irritation
5-chloro-2-methyl-4-isothiazoline-3-one	Rabbit	Corrosive
2-Methyl-4-isothiazoline-3-one	Rabbit	Corrosive

Skin Sensitisation

Name	Species	Value
2-(2-Ethoxyethoxy)ethanol	Human	Not classified
Zinc Ammonia Carbonate Complex	In vitro data	Sensitising
Proprietary Stabilizer	Human and animal	Not classified
5-chloro-2-methyl-4-isothiazoline-3-one	Human and animal	Sensitising
2-Methyl-4-isothiazoline-3-one	Human and animal	Sensitising

Photosensitisation

Name	Species	Value
5-chloro-2-methyl-4-isothiazoline-3-one	Human and animal	Not sensitizing
2-Methyl-4-isothiazoline-3-one	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
2-(2-Ethoxyethoxy)ethanol	In Vitro	Not mutagenic
2-(2-Ethoxyethoxy)ethanol	In vivo	Not mutagenic
Zinc Ammonia Carbonate Complex	In Vitro	Not mutagenic
Proprietary Stabilizer	In Vitro	Not mutagenic
5-chloro-2-methyl-4-isothiazoline-3-one	In vivo	Not mutagenic
5-chloro-2-methyl-4-isothiazoline-3-one	In Vitro	Some positive data exist, but the data are not sufficient for classification
2-Methyl-4-isothiazoline-3-one	In vivo	Not mutagenic
2-Methyl-4-isothiazoline-3-one	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Proprietary Stabilizer	Not specified.	Mouse	Some positive data exist, but the data are not sufficient for classification
5-chloro-2-methyl-4-isothiazoline-3-one	Dermal	Mouse	Not carcinogenic
5-chloro-2-methyl-4-isothiazoline-3-one	Ingestion	Rat	Not carcinogenic
2-Methyl-4-isothiazoline-3-one	Dermal	Mouse	Not carcinogenic
2-Methyl-4-isothiazoline-3-one	Ingestion	Rat	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
2-(2-Ethoxyethoxy)ethanol	Dermal	Not classified for development	Rat	NOAEL 5,500 mg/kg/day	during organogenesis
2-(2-Ethoxyethoxy)ethanol	Ingestion	Not classified for development	Mouse	NOAEL 5,500 mg/kg/day	during organogenesis
2-(2-Ethoxyethoxy)ethanol	Inhalation	Not classified for development	Rat	NOAEL 0.6 mg/l	during organogenesis
2-(2-Ethoxyethoxy)ethanol	Ingestion	Not classified for male reproduction	Rat	NOAEL 2,200 mg/kg/day	2 generation
Proprietary Stabilizer	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Proprietary Stabilizer	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Proprietary Stabilizer	Ingestion	Not classified for development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis
5-chloro-2-methyl-4-isothiazoline-3-one	Ingestion	Not classified for female reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
5-chloro-2-methyl-4-isothiazoline-3-one	Ingestion	Not classified for male reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
5-chloro-2-methyl-4-isothiazoline-3-one	Ingestion	Not classified for development	Rat	NOAEL 15 mg/kg/day	during organogenesis
2-Methyl-4-isothiazoline-3-one	Ingestion	Not classified for female reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
2-Methyl-4-isothiazoline-3-one	Ingestion	Not classified for male reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
2-Methyl-4-isothiazoline-3-one	Ingestion	Not classified for development	Rat	NOAEL 15 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
2-(2-Ethoxyethoxy)ethanol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
Ammonia, aqueous solution	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL not available	
Zinc Ammonia Carbonate Complex	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
5-chloro-2-methyl-4-isothiazoline-3-one	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
2-Methyl-4-isothiazoline-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
2-(2-Ethoxyethoxy)ethanol	Dermal	kidney and/or bladder	Not classified	Rabbit	NOAEL 1,000 mg/kg/day	12 weeks
2-(2-Ethoxyethoxy)ethanol	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Pig	NOAEL 167 mg/kg/day	90 days
2-(2-Ethoxyethoxy)ethanol	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 2,700 mg/kg/day	90 days
2-(2-Ethoxyethoxy)ethanol	Ingestion	endocrine system	Not classified	Rat	NOAEL 2,500 mg/kg/day	90 days
2-(2-Ethoxyethoxy)ethanol	Ingestion	heart hematopoietic system nervous system	Not classified	Mouse	NOAEL 8,100 mg/kg/day	90 days
Proprietary Stabilizer	Inhalation	respiratory system silicosis	Not classified	Human	NOAEL Not available	occupational exposure

Aspiration Hazard

For the component/components, either no data are currently available or the data are not sufficient for classification.

Exposure Levels

Refer Section 8.1 Control Parameters of this Safety Data Sheet.

Interactive Effects

Not determined.

SECTION 12: Ecological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity

Acute aquatic hazard:

GHS Acute 2: Toxic to aquatic life.

Chronic aquatic hazard:

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
Acrylic copolymer	Trade Secret		Data not available or insufficient for classification			N/A
2-(2-Ethoxyethoxy) ethanol		Green algae	Estimated	96 hours	EC50	>100 mg/l
2-(2-Ethoxyethoxy) ethanol		Bacteria	Experimental	16 hours	EC10	4,000 mg/l
2-(2-Ethoxyethoxy) ethanol		Channel Catfish	Experimental	96 hours	LC50	6,010 mg/l
2-(2-Ethoxyethoxy) ethanol		Water flea	Experimental	48 hours	LC50	1,982 mg/l
2-(2-Ethoxyethoxy) ethanol		Green algae	Estimated	96 hours	NOEC	100 mg/l
Tris(2-butoxyethyl) phosphate		Activated sludge	Experimental	3 hours	EC50	>1,000 mg/l
Tris(2-butoxyethyl) phosphate		Fathead minnow	Experimental	96 hours	LC50	11.2 mg/l
Tris(2-butoxyethyl) phosphate		Green Algae	Experimental	72 hours	EC50	61 mg/l
Tris(2-butoxyethyl) phosphate		Water flea	Experimental	48 hours	EC50	33 mg/l

Scotchgard™ UHS 25 Floor Finish

Tris(2-butoxyethyl) phosphate		Green algae	Experimental	72 hours	NOEC	7.6 mg/l
Ethoxylated Alcohols	Trade Secret	Fathead minnow	Experimental	96 hours	LC50	3.2 mg/l
Ethoxylated Alcohols	Trade Secret	Water flea	Experimental	48 hours	EC50	4.1 mg/l
Ethoxylated Alcohols	Trade Secret	Water flea	Experimental	21 days	NOEC	0.77 mg/l
Oxidized Ethylene Polymer	Trade Secret		Data not available or insufficient for classification			N/A
Silicone Carboxylate, Potassium Salt	Trade Secret		Data not available or insufficient for classification			N/A
Ammonia, aqueous solution		Algae or other aquatic plants	Estimated	72 hours	IC50	21.5 mg/l
Ammonia, aqueous solution		Fish other	Estimated	96 hours	LC50	3.5 mg/l
Ammonia, aqueous solution		Grass Shrimp	Estimated	48 hours	EC50	20 mg/l
Ammonia, aqueous solution		Algae or other aquatic plants	Estimated	72 hours	NOEC	1.5 mg/l
Ammonia, aqueous solution		Bluegill	Estimated	32 days	NOEC	4.1 mg/l
Ammonia, aqueous solution		Water flea	Estimated	21 days	NOEC	49.2 mg/l
Proprietary Stabilizer	Trade Secret		Data not available or insufficient for classification			N/A
Zinc Ammonia Carbonate Complex		Green Algae	Analogous Compound	72 hours	EC50	0.12 mg/l
Zinc Ammonia Carbonate Complex		Green Algae	Analogous Compound	72 hours	NOEC	0.015 mg/l
Zinc		Bacteria	Estimated	30 minutes	EC10	0.3 mg/l
Zinc		Green Algae	Estimated	72 hours	EC50	0.042 mg/l
Zinc		Rainbow trout	Estimated	96 hours	LC50	0.169 mg/l
Zinc		Water flea	Estimated	48 hours	EC50	0.06 mg/l
Zinc		Green Algae	Estimated	72 hours	NOEC	0.005 mg/l
Zinc		Water flea	Estimated	7 days	NOEC	0.013 mg/l
2-Methyl-4-isothiazoline-3-one		Activated sludge	Experimental	3 hours	EC50	41 mg/l

2-Methyl-4-isothiazoline-3-one		Diatom	Experimental	72 hours	EC50	0.0199 mg/l
2-Methyl-4-isothiazoline-3-one		Green algae	Experimental	72 hours	EC50	0.027 mg/l
2-Methyl-4-isothiazoline-3-one		Mysid Shrimp	Experimental	96 hours	LC50	0.282 mg/l
2-Methyl-4-isothiazoline-3-one		Rainbow trout	Experimental	96 hours	LC50	0.19 mg/l
2-Methyl-4-isothiazoline-3-one		Sheepshead Minnow	Experimental	96 hours	LC50	0.3 mg/l
2-Methyl-4-isothiazoline-3-one		Water flea	Experimental	48 hours	EC50	0.16 mg/l
2-Methyl-4-isothiazoline-3-one		Diatom	Experimental	48 hours	NOEC	0.00049 mg/l
2-Methyl-4-isothiazoline-3-one		Fathead minnow	Experimental	36 days	NOEC	0.02 mg/l
2-Methyl-4-isothiazoline-3-one		Green algae	Experimental	72 hours	NOEC	0.004 mg/l
2-Methyl-4-isothiazoline-3-one		Water flea	Experimental	21 days	NOEC	0.0111 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one		Diatom	Experimental	72 hours	EC50	0.007 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one		Green algae	Experimental	72 hours	EC50	0.027 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one		Mysid Shrimp	Experimental	96 hours	LC50	0.282 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one		Rainbow trout	Experimental	96 hours	LC50	0.19 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one		Sheepshead Minnow	Experimental	96 hours	LC50	0.3 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one		Water flea	Experimental	48 hours	EC50	0.16 mg/l
5-chloro-2-		Diatom	Experimental	48 hours	NOEC	0.00049 mg/l

methyl-4-isothiazoline-3-one						
5-chloro-2-methyl-4-isothiazoline-3-one		Fathead minnow	Experimental	36 days	NOEC	0.02 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one		Green algae	Experimental	72 hours	NOEC	0.004 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one		Water flea	Experimental	21 days	NOEC	0.0111 mg/l
Poly(dimethylsiloxane)			Data not available or insufficient for classification			N/A

12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Acrylic copolymer	Trade Secret	Data not available-insufficient			N/A	
2-(2-Ethoxyethoxy) ethanol		Experimental Biodegradation	16 days	CO2 evolution	100 % weight	OECD 301B - Modified sturm or CO2
Tris(2-butoxyethyl) phosphate		Experimental Biodegradation	28 days	CO2 evolution	87 % weight	OECD 301B - Modified sturm or CO2
Acrylic copolymer	Trade Secret	Data not available-insufficient			N/A	
Ethoxylated Alcohols	Trade Secret	Experimental Biodegradation	28 days	Dissolv. Organic Carbon Deplet	71 %removal of DOC	OECD 301A - DOC Die Away Test
Oxidized Ethylene Polymer	Trade Secret	Data not available-insufficient			N/A	
Silicone Carboxylate, Potassium Salt	Trade Secret	Data not available-insufficient			N/A	
Ammonia, aqueous solution		Data not available-insufficient			N/A	
Proprietary Stabilizer	Trade Secret	Data not available-insufficient			N/A	
Zinc Ammonia Carbonate Complex		Data not available-insufficient			N/A	
Zinc		Data not available-			N/A	

		insufficient				
2-Methyl-4-isothiazoline-3-one		Estimated Photolysis		Photolytic half-life (in air)	1.2 days (t 1/2)	Non-standard method
2-Methyl-4-isothiazoline-3-one		Experimental Hydrolysis		Hydrolytic half-life	>60 days (t 1/2)	Non-standard method
2-Methyl-4-isothiazoline-3-one		Experimental Biodegradation	29 days	CO2 evolution	62 %CO2 evolution/THC O2 evolution (does not pass 10-day window)	OECD 301B - Modified sturm or CO2
5-chloro-2-methyl-4-isothiazoline-3-one		Estimated Photolysis		Photolytic half-life (in air)	1.2 days (t 1/2)	Non-standard method
5-chloro-2-methyl-4-isothiazoline-3-one		Experimental Hydrolysis		Hydrolytic half-life	>60 days (t 1/2)	Non-standard method
5-chloro-2-methyl-4-isothiazoline-3-one		Experimental Biodegradation	29 days	CO2 evolution	62 %CO2 evolution/THC O2 evolution (does not pass 10-day window)	OECD 301B - Modified sturm or CO2
Poly(dimethylsiloxane)		Data not available-insufficient			N/A	

12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Acrylic copolymer	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
2-(2-Ethoxyethoxy) ethanol		Experimental Bioconcentration		Log Kow	-0.54	Non-standard method
Tris(2-butoxyethyl) phosphate		Experimental BCF-Carp		Bioaccumulation factor	<5.8	Non-standard method
Acrylic copolymer	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Ethoxylated Alcohols	Trade Secret	Estimated Bioconcentration		Bioaccumulation factor	5.12	Non-standard method
Oxidized Ethylene Polymer	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

Silicone Carboxylate, Potassium Salt	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Ammonia, aqueous solution		Estimated Bioconcentration		Log Kow	-1.14	Non-standard method
Proprietary Stabilizer	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Zinc Ammonia Carbonate Complex		Analogous Compound BCF-Carp	56 days	Bioaccumulation factor	242	
Zinc		Estimated BCF-Carp	56 days	Bioaccumulation factor	242	Non-standard method
2-Methyl-4-isothiazoline-3-one		Estimated BCF - Bluegill	42 days	Bioaccumulation factor	54	OECD 305E - Bioaccumulation flow-through fish test
5-chloro-2-methyl-4-isothiazoline-3-one		Estimated BCF - Bluegill	42 days	Bioaccumulation factor	54	OECD 305E - Bioaccumulation flow-through fish test
Poly(dimethylsiloxane)		Data not available or insufficient for classification	N/A	N/A	N/A	N/A

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 uncured product in a permitted waste incineration facility. Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product 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 that has been completely cured or polymerized 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:

An ingredient(s) in this product is being introduced under the no unreasonable risk non-cosmetic (<100 Kg) exemption provisions specified in Section 21(4) of the Industrial Chemicals (Notification and Assessment) Act 1989 as amended.

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