



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™ Glass Cleaner and Protector, Ready-To-Use

Product Identification Numbers

70-0715-9584-0 70-0716-5815-0

1.2. Recommended use and restrictions on use

Recommended use

Hard Surface Cleaner

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

None known.

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	CAS Nbr	% by Weight
Water	7732-18-5	> 99
Non-Ionic Surfactants	Trade Secret	< 1
Ethoxylated C9-11 Alcohols	68439-46-3	< 1
Isopropyl Alcohol	67-63-0	< 1
Sodium Lauryl Sulfate	151-21-3	< 1
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	< 0.001
2-Methyl-4-isothiazoline-3-one	2682-20-4	< 0.0004

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

Wash with soap and water. If signs/symptoms develop, get medical attention.

Eye contact

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

If swallowed

Do not induce vomiting. 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**

Material will not burn. 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

Carbon monoxide.
Carbon dioxide.

Condition

During combustion.
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

Ventilate the area with fresh air. Observe precautions from other sections.

6.2. Environmental precautions

Avoid release to the environment.

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

Keep out of reach of children. Avoid release to the environment.

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
Isopropyl Alcohol	67-63-0	ACGIH	TWA:200 ppm;STEL:400 ppm	A4: Not class. as human carcin
Isopropyl Alcohol	67-63-0	Australia OELs	TWA(8 hours):983 mg/m ³ (400 ppm);STEL(15 minutes):1230 mg/m ³ (500 ppm)	

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

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

CMRG : Chemical Manufacturer's Recommended Guidelines

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

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 in a well-ventilated area.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

None required.

Skin/hand protection

No chemical protective gloves are required.

Respiratory protection

None required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Colour	Light Blue
Odour	Mild Apple
Odour threshold	<i>No data available.</i>
pH	6.5 - 8.5 Units not available or not applicable.
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	Not applicable.
Flammable Limits(LEL)	<i>Not applicable.</i>
Flammable Limits(UEL)	<i>Not applicable.</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	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>
Kinematic Viscosity	10 mm ² /sec
Volatile organic compounds (VOC)	< 0.1 %
Percent volatile	<i>No data available.</i>
VOC less H ₂ O & exempt solvents	< 2,000 g/l
Molecular weight	<i>No data available.</i>

Particle Characteristics	<i>Not applicable.</i>
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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

Sprayed material may cause irritation of the respiratory system: Signs/symptoms may include cough, sneezing, nasal discharge, hoarseness, wheezing, breathing difficulty, nose and throat pain, coughing up blood, and non respiratory effects such as painful and watery eyes.

Skin contact

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

Eye contact

Sprayed material may cause eye irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Ingestion

No known health effects.

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
Non-Ionic Surfactants	Dermal	Rabbit	LD50 > 2,000 mg/kg

Non-Ionic Surfactants	Ingestion	Rat	LD50 > 2,000 mg/kg
Isopropyl Alcohol	Dermal	Rabbit	LD50 12,870 mg/kg
Isopropyl Alcohol	Inhalation-Vapour (4 hours)	Rat	LC50 72.6 mg/l
Isopropyl Alcohol	Ingestion	Rat	LD50 4,710 mg/kg
Ethoxylated C9-11 Alcohols	Dermal	similar compounds	LD50 > 2,000 mg/kg
Ethoxylated C9-11 Alcohols	Inhalation-Dust/Mist (4 hours)	similar compounds	LC50 > 1.6 mg/l
Ethoxylated C9-11 Alcohols	Ingestion	similar compounds	LD50 3,488 mg/kg
Sodium Lauryl Sulfate	Ingestion	Rat	LD50 911 mg/kg
Sodium Lauryl Sulfate	Dermal	similar compounds	LD50 > 2,000 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 0.171 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 0.171 mg/l
2-Methyl-4-isothiazoline-3-one	Ingestion	Rat	LD50 40 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Non-Ionic Surfactants	Rabbit	Minimal irritation
Isopropyl Alcohol	Multiple animal species	No significant irritation
Ethoxylated C9-11 Alcohols	similar compounds	Minimal irritation
Sodium Lauryl Sulfate	Rabbit	Irritant
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
Non-Ionic Surfactants	Rabbit	Corrosive
Isopropyl Alcohol	Rabbit	Severe irritant
Ethoxylated C9-11 Alcohols	Professional judgement	Moderate irritant
Sodium Lauryl Sulfate	Rabbit	Corrosive
5-chloro-2-methyl-4-isothiazoline-3-one	Rabbit	Corrosive
2-Methyl-4-isothiazoline-3-one	Rabbit	Corrosive

Skin Sensitisation

Name	Species	Value
Non-Ionic Surfactants	Mouse	Not classified
Isopropyl Alcohol	Guinea pig	Not classified
Ethoxylated C9-11 Alcohols	Guinea pig	Not classified
Sodium Lauryl Sulfate	similar compounds	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
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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
Non-Ionic Surfactants	In Vitro	Not mutagenic
Isopropyl Alcohol	In Vitro	Not mutagenic
Isopropyl Alcohol	In vivo	Not mutagenic
Ethoxylated C9-11 Alcohols	In Vitro	Not mutagenic
Sodium Lauryl Sulfate	In Vitro	Not mutagenic
Sodium Lauryl Sulfate	In vivo	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
Isopropyl Alcohol	Inhalation	Rat	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
Isopropyl Alcohol	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	2 generation
Isopropyl Alcohol	Ingestion	Not classified for male reproduction	Rat	NOAEL 500 mg/kg/day	2 generation
Isopropyl Alcohol	Ingestion	Not classified for development	Rat	NOAEL 400 mg/kg/day	during organogenesis
Isopropyl Alcohol	Inhalation	Not classified for development	Rat	LOAEL 9 mg/l	during gestation
Ethoxylated C9-11 Alcohols	Dermal	Not classified for female reproduction	Rat	NOAEL 250 mg/kg/day	2 generation
Ethoxylated C9-11 Alcohols	Dermal	Not classified for development	Rat	NOAEL 250 mg/kg/day	2 generation
Ethoxylated C9-11 Alcohols	Dermal	Not classified for male reproduction	Rat	NOAEL 100 mg/kg/day	2 generation
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-	Ingestion	Not classified for	Rat	NOAEL 10	2 generation

isothiazoline-3-one		female reproduction		mg/kg/day	
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
Non-Ionic Surfactants	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL not available	
Isopropyl Alcohol	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
Isopropyl Alcohol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
Isopropyl Alcohol	Inhalation	auditory system	Not classified	Guinea pig	NOAEL 13.4 mg/l	24 hours
Isopropyl Alcohol	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	poisoning and/or abuse
Ethoxylated C9-11 Alcohols	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Sodium Lauryl Sulfate	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	
5-chloro-2-methyl-4-isothiazoline-3-one	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	
2-Methyl-4-isothiazoline-3-one	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Isopropyl Alcohol	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 12.3 mg/l	24 months
Isopropyl Alcohol	Inhalation	nervous system	Not classified	Rat	NOAEL 12 mg/l	13 weeks
Isopropyl Alcohol	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 400 mg/kg/day	12 weeks
Ethoxylated C9-11 Alcohols	Dermal	kidney and/or bladder heart hematopoietic system liver nervous system respiratory	Not classified	Rat	NOAEL 125 mg/kg/day	13 weeks

		system				
Sodium Lauryl Sulfate	Ingestion	liver	Not classified	Rat	NOAEL 1,840 mg/kg/day	90 days

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:**

Not acutely toxic to aquatic life by GHS criteria.

Chronic aquatic hazard:

Not chronically toxic to aquatic life by GHS criteria.

No product test data available.

Material	CAS Number	Organism	Type	Exposure	Test endpoint	Test result
Ethoxylated C9-11 Alcohols	68439-46-3	Rainbow trout	Analogous Compound	96 hours	LC50	5 mg/l
Ethoxylated C9-11 Alcohols	68439-46-3	Green algae	Experimental	72 hours	EbC50	1.4 mg/l
Ethoxylated C9-11 Alcohols	68439-46-3	Water flea	Experimental	48 hours	EC50	2.5 mg/l
Ethoxylated C9-11 Alcohols	68439-46-3	Green algae	Analogous Compound	72 hours	ErC10	1.05 mg/l
Ethoxylated C9-11 Alcohols	68439-46-3	Water flea	Analogous Compound	21 days	NOEC	0.107 mg/l
Ethoxylated C9-11 Alcohols	68439-46-3	Activated sludge	Analogous Compound	3 hours	EC50	140 mg/l
Ethoxylated C9-11 Alcohols	68439-46-3	Mild Apple	Analogous Compound	19 days	EC50	>100 mg/kg (Dry Weight)
Isopropyl Alcohol	67-63-0	Bacteria	Experimental	16 hours	LOEC	1,050 mg/l
Isopropyl Alcohol	67-63-0	Green algae	Experimental	72 hours	EC50	>1,000 mg/l
Isopropyl Alcohol	67-63-0	Invertebrate	Experimental	24 hours	LC50	>10,000 mg/l
Isopropyl Alcohol	67-63-0	Medaka	Experimental	96 hours	LC50	>100 mg/l
Isopropyl Alcohol	67-63-0	Water flea	Experimental	48 hours	EC50	>1,000 mg/l
Isopropyl Alcohol	67-63-0	Green algae	Experimental	72 hours	NOEC	1,000 mg/l
Isopropyl Alcohol	67-63-0	Water flea	Experimental	21 days	NOEC	100 mg/l
Non-Ionic Surfactants	Trade Secret	Green algae	Experimental	72 hours	ErC50	27.22 mg/l
Non-Ionic Surfactants	Trade Secret	Water flea	Experimental	48 hours	EC50	>100 mg/l
Non-Ionic Surfactants	Trade Secret	Zebra Fish	Experimental	96 hours	LC50	101 mg/l
Non-Ionic	Trade Secret	Water flea	Analogous	21 days	NOEC	2 mg/l

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Surfactants			Compound			
Non-Ionic Surfactants	Trade Secret	Zebra Fish	Analogous Compound	28 days	NOEC	1.8 mg/l
Non-Ionic Surfactants	Trade Secret	Green algae	Experimental	72 hours	EbC10	6.25 mg/l
Sodium Lauryl Sulfate	151-21-3	Algae or other aquatic plants	Experimental	96 hours	ErC50	30.2 mg/l
Sodium Lauryl Sulfate	151-21-3	Atlantic Silverside	Experimental	96 hours	LC50	2.8 mg/l
Sodium Lauryl Sulfate	151-21-3	Bluegill	Experimental	96 hours	LC50	4.5 mg/l
Sodium Lauryl Sulfate	151-21-3	Duckweed	Experimental	7 days	EC50	18 mg/l
Sodium Lauryl Sulfate	151-21-3	Green algae	Experimental	96 hours	ErC50	117 mg/l
Sodium Lauryl Sulfate	151-21-3	Invertebrate	Experimental	48 hours	EC50	1.2 mg/l
Sodium Lauryl Sulfate	151-21-3	Invertebrate	Experimental	48 hours	LC50	0.85 mg/l
Sodium Lauryl Sulfate	151-21-3	Fathead minnow	Experimental	42 days	NOEC	1.357 mg/l
Sodium Lauryl Sulfate	151-21-3	Green algae	Experimental	96 hours	ErC10	12 mg/l
Sodium Lauryl Sulfate	151-21-3	Water flea	Experimental	7 days	NOEC	0.88 mg/l
Sodium Lauryl Sulfate	151-21-3	Activated sludge	Experimental	3 hours	EC50	135 mg/l
Sodium Lauryl Sulfate	151-21-3	Mild Apple	Experimental	6 days	EC50	269.6 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Diatom	Experimental	72 hours	ErC50	0.007 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Green algae	Experimental	72 hours	ErC50	0.027 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Mysid Shrimp	Experimental	96 hours	LC50	0.282 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Rainbow trout	Experimental	96 hours	LC50	0.19 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Sheepshead Minnow	Experimental	96 hours	LC50	0.3 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Water flea	Experimental	48 hours	EC50	0.16 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Diatom	Experimental	48 hours	NOEC	0.00049 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Fathead minnow	Experimental	36 days	NOEC	0.02 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Green algae	Experimental	72 hours	NOEC	0.004 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Water flea	Experimental	21 days	NOEC	0.0111 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Activated sludge	Experimental	3 hours	EC50	41 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Diatom	Experimental	72 hours	ErC50	0.0199 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Green algae	Experimental	72 hours	ErC50	0.027 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Mysid Shrimp	Experimental	96 hours	LC50	0.282 mg/l

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2-Methyl-4-isothiazoline-3-one	2682-20-4	Rainbow trout	Experimental	96 hours	LC50	0.19 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Sheepshead Minnow	Experimental	96 hours	LC50	0.3 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Water flea	Experimental	48 hours	EC50	0.16 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Diatom	Experimental	48 hours	NOEC	0.00049 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Fathead minnow	Experimental	36 days	NOEC	0.02 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Green algae	Experimental	72 hours	NOEC	0.004 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Water flea	Experimental	21 days	NOEC	0.0111 mg/l

12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Ethoxylated C9-11 Alcohols	68439-46-3	Analogous Compound Biodegradation	28 days	BOD	72 %CO2 evolution/THCO2 evolution	ISO 14593 Inorg C Headspace
Isopropyl Alcohol	67-63-0	Experimental Biodegradation	14 days	BOD	86 %BOD/ThOD	OECD 301C - MITI test (I)
Non-Ionic Surfactants	Trade Secret	Experimental Biodegradation	28 days	Dissolv. Organic Carbon Deplet	100 %removal of DOC	OECD 301E - Modif. OECD Screen
Sodium Lauryl Sulfate	151-21-3	Experimental Biodegradation	28 days	CO2 evolution	95 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Experimental Biodegradation	29 days	CO2 evolution	62 %CO2 evolution/THCO2 evolution (does not pass 10-day window)	OECD 301B - Modified sturm or CO2
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Modeled Photolysis		Photolytic half-life (in air)	1.2 days (t 1/2)	Episuite™
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	>60 days (t 1/2)	OECD 111 Hydrolysis func of pH
2-Methyl-4-isothiazoline-3-one	2682-20-4	Experimental Biodegradation	29 days	CO2 evolution	62 %CO2 evolution/THCO2 evolution (does not pass 10-day window)	OECD 301B - Modified sturm or CO2
2-Methyl-4-isothiazoline-3-one	2682-20-4	Modeled Photolysis		Photolytic half-life (in air)	1.2 days (t 1/2)	Episuite™
2-Methyl-4-isothiazoline-3-one	2682-20-4	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	>60 days (t 1/2)	OECD 111 Hydrolysis func of pH

12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Ethoxylated C9-11 Alcohols	68439-46-3	Modeled Bioconcentration		Bioaccumulation factor	31	Catalogic™
Ethoxylated C9-11 Alcohols	68439-46-3	Analogous Compound Bioconcentration		Log Kow	2.72	OECD 123 log Kow slow stir
Isopropyl Alcohol	67-63-0	Experimental Bioconcentration		Log Kow	0.05	
Non-Ionic Surfactants	Trade Secret	Analogous Compound Bioconcentration		Log Kow	1.72	EC A.8 Partition Coefficient

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Sodium Lauryl Sulfate	151-21-3	Experimental Bioconcentration		Log Kow	0.83	OECD 123 log Kow slow stir
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Analogous Compound BCF - Fish	42 days	Bioaccumulation factor	54	OECD305-Bioconcentration
2-Methyl-4-isothiazoline-3-one	2682-20-4	Analogous Compound BCF - Fish	42 days	Bioaccumulation factor	54	OECD305-Bioconcentration

12.4. Mobility in soil

Please contact manufacturer for more details

12.5 Other adverse effects

No information available.

The surfactant(s) contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

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.

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.

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