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
Scotch-Brite™ Kitchen Cleaner & Degreaser with Scotchgard™ Protector Wipes

Product Identification Numbers
75-0400-5261-7 75-0400-5634-5

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 classified as a hazardous chemical according to the Model Work Health and Safety Regulations, 2011, in accordance with applicable State and Territory legislation.

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

2.1. Classification of the substance or mixture
Skin Corrosion/Irritation: Category 2.

2.2. Label elements
The label elements below were prepared in accordance with the Code of Practice on Preparation of Safety Data Sheets for Hazardous Chemicals (Safe Work Australia, December 2011). This information may be different from the actual product label.

Signal word
Warning

Symbols
Exclamation mark |

Pictograms

Hazard statements

H315	Causes skin irritation.

Precautionary statements

Prevention:

P264	Wash thoroughly after handling.

Response:

P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.

2.3. Other assigned/identified product hazards
A similar mixture has been tested for skin corrosion/irritation and the test results are reflected in the assigned classification.

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	85 - 95
Benzyl alcohol	100-51-6	< 5
Alkylbenzene Sulfonic Acid	68584-22-5	< 3
3M Protector	Trade Secret	< 1
Solvent	141-43-5	< 1
Surfactants	Trade Secret	< 0.5
Aminomethyl Propanol	124-68-5	< 0.1
Poly(oxy-1,2-ethanediyl),.alpha.-undecyl-.omega.-hydroxy-	34398-01-1	< 0.1
Sodium lauroyl sarcosinate	137-16-6	< 0.1
Fragrance	Trade Secret	< 0.01
Methylchloroisothiazolinone	26172-55-4	< 0.001
Methylisothiazolinone	2682-20-4	< 0.001
Acid Blue 80	4474-24-2	< 0.0001
Acid Red 52	3520-42-1	< 0.0001

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation
No need for first aid is anticipated. If symptoms develop, remove the affected person to fresh air. Get medical attention.

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

Eye contact
No need for first aid is anticipated. If signs/symptoms persist, get medical attention.

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

4.2. Most important symptoms and effects, both acute and delayed
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
None inherent in this product.

Hazardous Decomposition or By-Products

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

5.3. Special protective actions for fire-fighters
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.

6.3. Methods and material for containment and cleaning up
Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. 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. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

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
Benzyl alcohol	100-51-6	AIHA	TWA:44.2 mg/m3(10 ppm)	
Solvent	141-43-5	ACGIH	TWA:3 ppm;STEL:6 ppm	
Solvent	141-43-5	Australia OELs	TWA(8 hours): 7.5 mg/m3(3 ppm); STEL(15 minutes): 15 mg/m3(6 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
No engineering controls required.

8.2.2. Personal protective equipment (PPE)

Eye/face protection
None required.

Skin/hand protection
Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.
Gloves made from the following material(s) are recommended: Polymer laminate

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	Solid.
Specific Physical Form:	Non-Woven Material
Colour	Colourless-Ivory
Odour	Slight Citrus
Odour threshold	*No data available.*
pH	10 - 10.5 [*Details:*Conditions: Liquid Portion]
Melting point/Freezing point	*No data available.*
Boiling point/Initial boiling point/Boiling range	100 ºC [*Details:*Conditions: Liquid Portion]
Flash point	No flash point
Evaporation rate	*No data available.*
Flammability (solid, gas)	Not classified
Flammable Limits(LEL)	*No data available.*
Flammable Limits(UEL)	*No data available.*
Vapour pressure	2,333.1 Pa [@ 20 ºC] [*Details:*Conditions: Liquid Portion]
Vapor Density and/or Relative Vapor Density	*No data available.*
Density	1 g/cm3
Relative density	1 [*Ref Std:*WATER=1]
Water solubility	*No data available.*
Solubility- non-water	Complete
Partition coefficient: n-octanol/water	*No data available.*
Autoignition temperature	*No data available.*
Decomposition temperature	*No data available.*
Viscosity/Kinematic Viscosity	*No data available.*
Volatile organic compounds (VOC)	1 %
Percent volatile	*No data available.*
VOC less H2O & exempt solvents	*No data available.*
Average particle size	*No data available.*
Bulk density	*No data available.*
Molecular weight	*No data available.*
Softening point	*No data available.*

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
This product may have a characteristic odour; however, no adverse health effects are anticipated.

Skin contact
Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain. Allergic Skin Reaction (non-photo induced) in sensitive people: Signs/symptoms may include redness, swelling, blistering, and itching.

Eye contact
Contact with the eyes during product use is not expected to result in significant irritation.

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

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	Ingestion		No data available; calculated ATE >5,000 mg/kg
Benzyl alcohol	Inhalation-Dust/Mist (4 hours)	Rat	LC50 8.8 mg/l
Benzyl alcohol	Ingestion	Rat	LD50 1,230 mg/kg
Alkylbenzene Sulfonic Acid	Dermal	Rabbit	LD50 2,000 mg/kg
Alkylbenzene Sulfonic Acid	Ingestion	Rat	LD50 > 300, < 2000 mg/kg
Solvent	Inhalation-Vapour	official classification	LC50 estimated to be 10 - 20 mg/l
Solvent	Dermal	Rabbit	LD50 2,504 mg/kg
Solvent	Ingestion	Rat	LD50 1,089 mg/kg
Surfactants	Dermal	Rabbit	LD50 > 2,000 mg/kg
Surfactants	Ingestion	Rat	LD50 > 2,000 mg/kg
Aminomethyl Propanol	Dermal	Rabbit	LD50 > 2,000 mg/kg
Aminomethyl Propanol	Ingestion	Rat	LD50 2,900 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
Sodium lauroyl sarcosinate	Dermal	Professional judgement	LD50 estimated to be > 5,000 mg/kg

Sodium lauroyl sarcosinate	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 0.05, < 0.5 mg/l
Sodium lauroyl sarcosinate	Ingestion	Rat	LD50 > 5,000 mg/kg
Fragrance	Dermal	Rabbit	LD50 > 4,680 mg/kg
Fragrance	Ingestion	Rat	LD50 3,370 mg/kg
Methylchloroisothiazolinone	Dermal	Rabbit	LD50 87 mg/kg
Methylchloroisothiazolinone	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.171 mg/l
Methylchloroisothiazolinone	Ingestion	Rat	LD50 40 mg/kg
Methylisothiazolinone	Dermal	Rabbit	LD50 87 mg/kg
Methylisothiazolinone	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.171 mg/l
Methylisothiazolinone	Ingestion	Rat	LD50 40 mg/kg
Acid Blue 80	Ingestion	Rat	LD50 3,350 mg/kg
Acid Blue 80	Dermal	similar health hazards	LD50 estimated to be 2,000 - 5,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Overall product	In vitro data	Irritant
Benzyl alcohol	Multiple animal species	Mild irritant
Alkylbenzene Sulfonic Acid	similar compounds	Minimal irritation
Solvent	Rabbit	Corrosive
Surfactants	Rabbit	Minimal irritation
Aminomethyl Propanol	Rabbit	Irritant
Poly(oxy-1,2-ethanediyl),.alpha.-undecyl-.omega.-hydroxy-	similar health hazards	Irritant
Sodium lauroyl sarcosinate	Rabbit	Irritant
Methylchloroisothiazolinone	Rabbit	Corrosive
Methylisothiazolinone	Rabbit	Corrosive
Acid Blue 80	Rabbit	Minimal irritation

Serious Eye Damage/Irritation

Name	Species	Value
Benzyl alcohol	Rabbit	Severe irritant
Alkylbenzene Sulfonic Acid	similar compounds	Severe irritant
Solvent	Rabbit	Corrosive
Surfactants	Rabbit	Corrosive
Aminomethyl Propanol	Rabbit	Corrosive
Poly(oxy-1,2-ethanediyl),.alpha.-undecyl-.omega.-hydroxy-	Professional judgement	Corrosive
Sodium lauroyl sarcosinate	Rabbit	Corrosive
Methylchloroisothiazolinone	Rabbit	Corrosive
Methylisothiazolinone	Rabbit	Corrosive
Acid Blue 80	Rabbit	Mild irritant

Skin Sensitisation

Name	Species	Value
Benzyl alcohol	Human and animal	Not classified
Alkylbenzene Sulfonic Acid	Human	Some positive data exist, but the data are not sufficient for classification
Solvent	Guinea pig	Not classified
Surfactants	Mouse	Not classified
Aminomethyl Propanol	Guinea pig	Not classified

Sodium lauroyl sarcosinate	Guinea pig	Not classified
Fragrance	Mouse	Sensitising
Methylchloroisothiazolinone	Human and animal	Sensitising
Methylisothiazolinone	Human and animal	Sensitising
Acid Blue 80	Mouse	Not classified

Photosensitisation

Name	Species	Value
Methylchloroisothiazolinone	Human and animal	Not sensitizing
Methylisothiazolinone	Human and animal	Not sensitizing

Respiratory Sensitisation

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

Germ Cell Mutagenicity

Name	Route	Value
Benzyl alcohol	In vivo	Not mutagenic
Benzyl alcohol	In Vitro	Some positive data exist, but the data are not sufficient for classification
Alkylbenzene Sulfonic Acid	In Vitro	Not mutagenic
Solvent	In Vitro	Not mutagenic
Solvent	In vivo	Not mutagenic
Surfactants	In Vitro	Not mutagenic
Aminomethyl Propanol	In Vitro	Not mutagenic
Aminomethyl Propanol	In vivo	Not mutagenic
Sodium lauroyl sarcosinate	In Vitro	Not mutagenic
Methylchloroisothiazolinone	In vivo	Not mutagenic
Methylchloroisothiazolinone	In Vitro	Some positive data exist, but the data are not sufficient for classification
Methylisothiazolinone	In vivo	Not mutagenic
Methylisothiazolinone	In Vitro	Some positive data exist, but the data are not sufficient for classification
Acid Blue 80	In Vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Benzyl alcohol	Ingestion	Multiple animal species	Not carcinogenic
Methylchloroisothiazolinone	Dermal	Mouse	Not carcinogenic
Methylchloroisothiazolinone	Ingestion	Rat	Not carcinogenic
Methylisothiazolinone	Dermal	Mouse	Not carcinogenic
Methylisothiazolinone	Ingestion	Rat	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Benzyl alcohol	Ingestion	Not classified for development	Mouse	NOAEL 550 mg/kg/day	during organogenesis
Solvent	Dermal	Not classified for development	Rat	NOAEL 225 mg/kg/day	during organogenesis
Solvent	Ingestion	Not classified for development	Rat	NOAEL 450 mg/kg/day	during organogenesis
Aminomethyl Propanol	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000	premating into lactation

				mg/kg/day	
Aminomethyl Propanol	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	37 days
Aminomethyl Propanol	Dermal	Not classified for development	Rat	NOAEL 300 mg/kg/day	during gestation
Aminomethyl Propanol	Ingestion	Toxic to development	Rat	NOAEL 100 mg/kg/day	premating into lactation
Sodium lauroyl sarcosinate	Ingestion	Not classified for development	Rabbit	NOAEL 500 mg/kg/day	during gestation
Methylchloroisothiazolinone	Ingestion	Not classified for female reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
Methylchloroisothiazolinone	Ingestion	Not classified for male reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
Methylchloroisothiazolinone	Ingestion	Not classified for development	Rat	NOAEL 15 mg/kg/day	during organogenesis
Methylisothiazolinone	Ingestion	Not classified for female reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
Methylisothiazolinone	Ingestion	Not classified for male reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
Methylisothiazolinone	Ingestion	Not classified for development	Rat	NOAEL 15 mg/kg/day	during organogenesis

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Benzyl alcohol	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL Not available	
Benzyl alcohol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
Benzyl alcohol	Ingestion	central nervous system depression	May cause drowsiness or dizziness		NOAEL Not available	
Solvent	Inhalation	respiratory irritation	May cause respiratory irritation	Human and animal	NOAEL Not available	
Surfactants	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL not available	
Aminomethyl Propanol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL Not available	
Poly(oxy-1,2-ethanediyl),.alpha.-undecyl-.omega.-hydroxy-	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	
Sodium lauroyl sarcosinate	Inhalation	respiratory irritation	Some positive data exist, but the data are not	similar health hazards	NOAEL Not available	

			sufficient for classification			
Methylchloroisothiazolinone	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	
Methylisothiazolinone	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
Benzyl alcohol	Ingestion	endocrine system | muscles | kidney and/or bladder	Not classified	Rat	NOAEL 400 mg/kg/day	13 weeks
Benzyl alcohol	Ingestion	nervous system | respiratory system	Not classified	Mouse	NOAEL 645 mg/kg/day	8 days
Solvent	Inhalation	hematopoietic system | liver	Not classified	Rat	NOAEL 0.1559 mg/l	28 days
Solvent	Inhalation	respiratory system	Not classified	Rat	LOAEL 0.0102 mg/l	28 days
Solvent	Inhalation	heart | endocrine system | immune system | nervous system | eyes | kidney and/or bladder	Not classified	Rat	NOAEL 0.1559 mg/l	28 days
Solvent	Ingestion	hematopoietic system | liver | kidney and/or bladder | respiratory system	Not classified	Rat	NOAEL Not available	
Aminomethyl Propanol	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 23 mg/kg/day	90 days
Aminomethyl Propanol	Ingestion	blood | eyes | kidney and/or bladder	Not classified	Dog	NOAEL 2.8 mg/kg/day	1 years
Sodium lauroyl sarcosinate	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 30 mg/kg/day	90 days
Sodium lauroyl sarcosinate	Ingestion	heart | endocrine system | bone, teeth, nails, and/or hair | hematopoietic system | liver | immune system | muscles | nervous system | eyes | kidney and/or bladder | respiratory system | vascular system	Not classified	Rat	NOAEL 250 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
Benzyl alcohol	100-51-6	Activated sludge	Experimental	3 hours	EC50	1,385 mg/l
Benzyl alcohol	100-51-6	Fathead minnow	Experimental	96 hours	LC50	460 mg/l
Benzyl alcohol	100-51-6	Green algae	Experimental	72 hours	ErC50	770 mg/l
Benzyl alcohol	100-51-6	Water flea	Experimental	48 hours	EC50	230 mg/l
Benzyl alcohol	100-51-6	Green algae	Experimental	72 hours	NOEC	310 mg/l
Benzyl alcohol	100-51-6	Water flea	Experimental	21 days	NOEC	51 mg/l
Alkylbenzene Sulfonic Acid	68584-22-5	Green algae	Analogous Compound	96 hours	EC50	36 mg/l
Alkylbenzene Sulfonic Acid	68584-22-5	Rainbow trout	Experimental	96 hours	LC50	4.3 mg/l
Alkylbenzene Sulfonic Acid	68584-22-5	Water flea	Experimental	48 hours	EC50	2.9 mg/l
Alkylbenzene Sulfonic Acid	68584-22-5	Fathead minnow	Analogous Compound	28 days	NOEC	0.9 mg/l
Alkylbenzene Sulfonic Acid	68584-22-5	Green algae	Analogous Compound	72 hours	NOEC	2.2 mg/l
Alkylbenzene Sulfonic Acid	68584-22-5	Water flea	Analogous Compound	21 days	NOEC	0.3 mg/l
Alkylbenzene Sulfonic Acid	68584-22-5	Activated sludge	Analogous Compound	3 hours	EC50	550 mg/l
Alkylbenzene Sulfonic Acid	68584-22-5	Redworm	Analogous Compound	14 days	LC50	>1,000 mg/kg (Dry Weight)
3M Protector	Trade Secret	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Solvent	141-43-5	Diatom	Experimental	72 hours	ErC50	198 mg/l
Solvent	141-43-5	Green algae	Experimental	72 hours	ErC50	2.5 mg/l
Solvent	141-43-5	Rainbow trout	Experimental	96 hours	LC50	105 mg/l
Solvent	141-43-5	Water flea	Experimental	48 hours	EC50	27.04 mg/l
Solvent	141-43-5	Green algae	Experimental	72 hours	NOEC	1 mg/l
Solvent	141-43-5	Medaka	Experimental	41 days	NOEC	1.24 mg/l
Solvent	141-43-5	Water flea	Experimental	21 days	NOEC	0.85 mg/l

Solvent	141-43-5	Activated sludge	Experimental	30 minutes	IC50	>1,000 mg/l
Solvent	141-43-5	Plant	Experimental	21 days	EC50	1,290 mg/kg (Dry Weight)
Solvent	141-43-5	Redworm	Experimental	35 days	LC50	3,715 mg/kg (Dry Weight)
Solvent	141-43-5	Springtail	Experimental	28 days	LC50	1,893 mg/kg (Dry Weight)
Surfactants	Trade Secret	Green algae	Experimental	72 hours	ErC50	27.22 mg/l
Surfactants	Trade Secret	Water flea	Experimental	48 hours	EC50	>100 mg/l
Surfactants	Trade Secret	Zebra Fish	Experimental	96 hours	LC50	101 mg/l
Surfactants	Trade Secret	Water flea	Analogous Compound	21 days	NOEC	2 mg/l
Surfactants	Trade Secret	Zebra Fish	Analogous Compound	28 days	NOEC	1.8 mg/l
Surfactants	Trade Secret	Green algae	Experimental	72 hours	EbC10	6.25 mg/l
Aminomethyl Propanol	124-68-5	Activated sludge	Experimental	3 hours	EC50	342.9 mg/l
Aminomethyl Propanol	124-68-5	Fish	Experimental	96 hours	LC50	184 mg/l
Aminomethyl Propanol	124-68-5	Green algae	Experimental	72 hours	EC50	520 mg/l
Aminomethyl Propanol	124-68-5	Water flea	Experimental	24 hours	EC50	65 mg/l
Poly(oxy-1,2-ethanediyl),.alpha.-undecyl-.omega.-hydroxy-	34398-01-1	Green algae	Analogous Compound	72 hours	ErC50	0.43 mg/l
Poly(oxy-1,2-ethanediyl),.alpha.-undecyl-.omega.-hydroxy-	34398-01-1	Green algae	Analogous Compound	72 hours	NOEC	0.09 mg/l
Sodium lauroyl sarcosinate	137-16-6	Activated sludge	Experimental	3 hours	EC50	>1,000 mg/l
Sodium lauroyl sarcosinate	137-16-6	Green algae	Experimental	72 hours	EC50	79 mg/l
Sodium lauroyl sarcosinate	137-16-6	Water flea	Experimental	48 hours	EC50	8.91 mg/l
Sodium lauroyl sarcosinate	137-16-6	Zebra Fish	Experimental	96 hours	LC50	32.1 mg/l
Sodium lauroyl sarcosinate	137-16-6	Green algae	Experimental	72 hours	NOEC	9.2 mg/l
Fragrance	Trade Secret	Common Carp	Experimental	96 hours	LC50	8.6 mg/l
Fragrance	Trade Secret	Green algae	Experimental	72 hours	ErC50	22 mg/l
Fragrance	Trade Secret	Water flea	Experimental	48 hours	EC50	5.3 mg/l
Fragrance	Trade Secret	Green algae	Experimental	72 hours	ErC10	11 mg/l
Fragrance	Trade Secret	Activated sludge	Experimental	3 hours	EC50	302 mg/l
Methylchloroisothiazolinone	26172-55-4	Diatom	Experimental	72 hours	ErC50	0.007 mg/l
Methylchloroisothiazolinone	26172-55-4	Green algae	Experimental	72 hours	ErC50	0.027 mg/l
Methylchloroisothiazolinone	26172-55-4	Mysid Shrimp	Experimental	96 hours	LC50	0.282 mg/l
Methylchloroisothiazolinone	26172-55-4	Rainbow trout	Experimental	96 hours	LC50	0.19 mg/l
Methylchloroisothiazolinone	26172-55-4	Sheepshead Minnow	Experimental	96 hours	LC50	0.3 mg/l
Methylchloroisothiazolinone	26172-55-4	Water flea	Experimental	48 hours	EC50	0.16 mg/l
Methylchloroisothiazolinone	26172-55-4	Diatom	Experimental	48 hours	NOEC	0.00049 mg/l
Methylchloroisothiazolinone	26172-55-4	Fathead minnow	Experimental	36 days	NOEC	0.02 mg/l
Methylchloroisothiazolinone	26172-55-4	Green algae	Experimental	72 hours	NOEC	0.004 mg/l
Methylchloroisothiazolinone	26172-55-4	Water flea	Experimental	21 days	NOEC	0.0111 mg/l
Methylisothiazolinone	2682-20-4	Activated sludge	Experimental	3 hours	EC50	41 mg/l
Methylisothiazolinone	2682-20-4	Diatom	Experimental	72 hours	ErC50	0.0199 mg/l

Methylisothiazolinone	2682-20-4	Green algae	Experimental	72 hours	ErC50	0.027 mg/l
Methylisothiazolinone	2682-20-4	Mysid Shrimp	Experimental	96 hours	LC50	0.282 mg/l
Methylisothiazolinone	2682-20-4	Rainbow trout	Experimental	96 hours	LC50	0.19 mg/l
Methylisothiazolinone	2682-20-4	Sheepshead Minnow	Experimental	96 hours	LC50	0.3 mg/l
Methylisothiazolinone	2682-20-4	Water flea	Experimental	48 hours	EC50	0.16 mg/l
Methylisothiazolinone	2682-20-4	Diatom	Experimental	48 hours	NOEC	0.00049 mg/l
Methylisothiazolinone	2682-20-4	Fathead minnow	Experimental	36 days	NOEC	0.02 mg/l
Methylisothiazolinone	2682-20-4	Green algae	Experimental	72 hours	NOEC	0.004 mg/l
Methylisothiazolinone	2682-20-4	Water flea	Experimental	21 days	NOEC	0.0111 mg/l
Acid Blue 80	4474-24-2	Guppy	Analogous Compound	96 hours	LC50	14.3 mg/l
Acid Blue 80	4474-24-2	Duckweed	Experimental	7 days	ErC50	615 mg/l
Acid Blue 80	4474-24-2	Activated sludge	Experimental	3 hours	IC50	>1,000 mg/l
Acid Red 52	3520-42-1	N/A	Experimental	96 hours	LC50	1,200 mg/l
Acid Red 52	3520-42-1	Water flea	Experimental	48 hours	EC50	>120 mg/l

12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Benzyl alcohol	100-51-6	Experimental Biodegradation	14 days	BOD	94 %BOD/ThOD	OECD 301C - MITI test (I)
Alkylbenzene Sulfonic Acid	68584-22-5	Experimental Biodegradation	28 days	CO2 evolution	80 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
3M Protector	Trade Secret	Data not available-insufficient	N/A	N/A	N/A	N/A
Solvent	141-43-5	Experimental Biodegradation	28 days	CO2 evolution	80 %CO2 evolution/THCO2 evolution	
Solvent	141-43-5	Experimental Biodegradation	21 days	Dissolv. Organic Carbon Deplet	>90 %removal of DOC	OECD 301A - DOC Die Away Test
Solvent	141-43-5	Experimental Photolysis		Photolytic half-life (in air)	5.5 hours (t 1/2)	
Surfactants	Trade Secret	Experimental Biodegradation	28 days	Dissolv. Organic Carbon Deplet	100 %removal of DOC	OECD 301E - Modif. OECD Screen
Aminomethyl Propanol	124-68-5	Experimental Biodegradation	28 days	BOD	89.3 %BOD/ThOD	OECD 301F - Manometric respirometry
Poly(oxy-1,2-ethanediyl),.alpha.-undecyl-.omega.-hydroxy-	34398-01-1	Modeled Biodegradation	28 days	CO2 evolution	95 %CO2 evolution/THCO2 evolution	Catalogic™
Sodium lauroyl sarcosinate	137-16-6	Experimental Biodegradation	14 days	BOD	86 %BOD/ThOD	OECD 301C - MITI test (I)
Fragrance	Trade Secret	Experimental Biodegradation	28 days	CO2 evolution	75 %CO2 evolution/THCO2 evolution	EC C.4.C. CO2 Evolution Test
Methylchloroisothiazolinone	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
Methylchloroisothiazolinone	26172-55-4	Modeled Photolysis		Photolytic half-life (in air)	1.2 days (t 1/2)	Episuite™

Methylchloroisothiazolinone	26172-55-4	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	>60 days (t 1/2)	OECD 111 Hydrolysis func of pH
Methylisothiazolinone	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
Methylisothiazolinone	2682-20-4	Modeled Photolysis		Photolytic half-life (in air)	1.2 days (t 1/2)	Episuite™
Methylisothiazolinone	2682-20-4	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	>60 days (t 1/2)	OECD 111 Hydrolysis func of pH
Acid Blue 80	4474-24-2	Modeled Biodegradation	28 days	BOD	0 %BOD/ThOD	Catalogic™
Acid Blue 80	4474-24-2	Experimental Aquatic Inherent Biodegrad.	28 days	Dissolv. Organic Carbon Deplet	≤16.0 %removal of DOC	OECD 302B Zahn-Wellens/EVPA
Acid Red 52	3520-42-1	Experimental Biodegradation	28 days	CO2 evolution	0 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2

12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Benzyl alcohol	100-51-6	Experimental Bioconcentration		Log Kow	1.10	
Alkylbenzene Sulfonic Acid	68584-22-5	Analogous Compound BCF - Fish	28 days	Bioaccumulation factor	220	
Alkylbenzene Sulfonic Acid	68584-22-5	Experimental Bioconcentration		Log Kow	2.0	OECD 107 log Kow shke flsk mtd
3M Protector	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Solvent	141-43-5	Experimental Bioconcentration		Log Kow	-2.3	OECD 107 log Kow shke flsk mtd
Surfactants	Trade Secret	Analogous Compound Bioconcentration		Log Kow	1.72	EC A.8 Partition Coefficient
Aminomethyl Propanol	124-68-5	Experimental Bioconcentration		Log Kow	-0.63	
Poly(oxy-1,2-ethanediyl),.alpha.-undecyl-.omega.-hydroxy-	34398-01-1	Modeled Bioconcentration		Bioaccumulation factor	50	Catalogic™
Sodium lauroyl sarcosinate	137-16-6	Estimated Bioconcentration		Log Kow	0.37	
Fragrance	Trade Secret	Modeled Bioconcentration		Bioaccumulation factor	15	Catalogic™
Fragrance	Trade Secret	Experimental Bioconcentration		Log Kow	4.8	OECD 117 log Kow HPLC method
Methylchloroisothiazolinone	26172-55-4	Analogous Compound BCF - Fish	42 days	Bioaccumulation factor	54	OECD305-Bioconcentration
Methylisothiazolinone	2682-20-4	Analogous Compound BCF - Fish	42 days	Bioaccumulation factor	54	OECD305-Bioconcentration
Acid Blue 80	4474-24-2	Experimental Bioconcentration		Log Kow	-1.304	OECD 107 log Kow shke flsk mtd
Acid Red 52	3520-42-1	Experimental BCF - Fish	28 days	Bioaccumulation factor	≤5.3	OECD305-Bioconcentration
Acid Red 52	3520-42-1	Experimental Bioconcentration		Log Kow	-2.2	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.

Dispose of waste product in a permitted industrial waste facility.

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.

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