



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™ ESPE™ CLINPRO™ 5000 1.1% SODIUM FLUORIDE 5000 ppm F- DENTIFRICE

Product Identification Numbers

70-2010-9848-3

1.2. Recommended use and restrictions on use

Recommended use

Dental Product, Dental preventative

Restrictions on use

For use by dental professionals 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

Specific Target Organ Toxicity (repeated exposure): 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

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label.

Signal word

WARNING!

Symbols

Health Hazard |

Pictograms**Hazard statements**

H373 May cause damage to organs through prolonged or repeated exposure:
musculoskeletal system |

Precautionary statements**Prevention:**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

Response:

P314 Get medical advice/attention if you feel unwell.

Disposal:

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

2.3. Other assigned/identified product hazards

None known.

2.4. Other hazards which do not result in classification

Causes mild skin irritation. Harmful to aquatic life.

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	CAS Nbr	% by Weight
Water	7732-18-5	30 - 40
Non-crystallizing sorbitol solution	50-70-4	20 - 30
Silica gel precipitated, crystalline free	112926-00-8	10 - 20
Glycerol	56-81-5	1 - 10
Amorphous silica	7631-86-9	5 - 10
Polyethylene-polypropylene glycol	9003-11-6	1 - 5
Poly(oxy-1,2-ethanediyl),alpha-hydro- omega-hydroxy-ethane-1,2-diol, ethoxylated	25322-68-3	< 5
Sodium fluoride	7681-49-4	1 - 2
Flavourings	Mixture	< 2
Modified Tricalcium phosphate	None	< 2
Sodium dodecyl sulphate	151-21-3	< 2

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Sodium carboxymethyl cellulose	9004-32-4	< 2
1,2-Benzisothiazol-3(2H)-one 1,1-dioxide, sodium salt	128-44-9	< 2
Titanium dioxide	13463-67-7	< 2

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

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

4.2. Most important symptoms and effects, both acute and delayed

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**

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**

Evacuate area. Ventilate the area with fresh air. 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

Avoid prolonged or repeated skin contact. Do not eat, drink or smoke when using this product. Avoid release to the environment. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Do not get in eyes.

7.2. Conditions for safe storage including any incompatibilities

Store away from oxidising agents.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

No occupational exposure limit values exist for any of the components listed in Section 3 of this Safety Data Sheet.

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

See Section 7.1 for additional information on skin protection.

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:	Paste
Appearance/Odour	Opaque paste with vanilla mint, spearmint, or bubble gum flavour
Odour threshold	<i>No data available.</i>
pH	<i>Not applicable.</i>
Melting point/Freezing point	<i>No data available.</i>
Boiling point/Initial boiling point/Boiling range	<i>Not applicable.</i>
Flash point	No flash point
Evaporation rate	<i>Not applicable.</i>
Flammability (solid, gas)	Not classified
Flammable Limits(LEL)	<i>Not applicable.</i>
Flammable Limits(UEL)	<i>Not applicable.</i>
Vapour pressure	<i>Not applicable.</i>
Vapour density	<i>Not applicable.</i>

Density	1.04 g/cm ³
Relative density	1.04 [Ref Std: WATER=1]
Water solubility	Appreciable
Solubility- non-water	No data available.
Partition coefficient: n-octanol/water	Not applicable.
Autoignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

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

10.2 Chemical stability

Stable.

10.3. Conditions to avoid

None known.

10.4. Possibility of hazardous reactions

Hazardous polymerisation will not occur.

10.5 Incompatible materials

Strong oxidising agents.

10.6 Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
None known.	

SECTION 11: Toxicological information

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

11.1 Information on Toxicological effects

Signs and Symptoms of Exposure

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

Inhalation

No known health effects.

Skin contact

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

Eye contact

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

Ingestion

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May cause additional health effects (see below).

Additional Health Effects:

Prolonged or repeated exposure may cause target organ effects:

Exposures needed to cause the following health effect(s) are not expected during normal, intended use:

Hard tissue effects: Signs/symptoms may include colour changes in the teeth and nails, changes in development of bone, teeth or nails, weakening of the bones, and hair loss.

Carcinogenicity:

Exposures needed to cause the following health effect(s) are not expected during normal, intended use:

Contains a chemical or chemicals which can cause cancer.

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Non-crystallizing sorbitol solution	Dermal	Professional judgement	LD50 estimated to be > 5,000 mg/kg
Non-crystallizing sorbitol solution	Ingestion	Rat	LD50 15,900 mg/kg
Silica gel precipitated, crystalline free	Dermal	Rabbit	LD50 > 5,000 mg/kg
Silica gel precipitated, crystalline free	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
Silica gel precipitated, crystalline free	Ingestion	Rat	LD50 > 5,110 mg/kg
Amorphous silica	Dermal	Rabbit	LD50 > 5,000 mg/kg
Amorphous silica	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
Amorphous silica	Ingestion	Rat	LD50 > 5,110 mg/kg
Glycerol	Dermal	Rabbit	LD50 estimated to be > 5,000 mg/kg
Glycerol	Ingestion	Rat	LD50 > 5,000 mg/kg
Polyethylene-polypropylene glycol	Dermal	Professional judgement	LD50 estimated to be > 5,000 mg/kg
Polyethylene-polypropylene glycol	Ingestion	Rat	LD50 5,700 mg/kg
Sodium fluoride	Dermal	Rat	LD50 > 2,000 mg/kg
Sodium fluoride	Inhalation-Dust/Mist	Rat	LC50 1 mg/l
Sodium fluoride	Ingestion	Rat	LD50 148.5 mg/kg
1,2-Benzisothiazol-3(2H)-one 1,1-dioxide, sodium salt	Dermal	Professional judgement	LD50 estimated to be > 5,000 mg/kg
Poly(oxy-1,2-ethanediyl),alpha-hydro-omega-hydroxy-ethane-1,2-diol, ethoxylated	Dermal	Rabbit	LD50 > 20,000 mg/kg
Sodium carboxymethyl cellulose	Dermal	Rabbit	LD50 > 2,000 mg/kg
Sodium dodecyl sulphate	Dermal	Rabbit	LD50 580 mg/kg
Titanium dioxide	Dermal	Rabbit	LD50 > 10,000 mg/kg
Poly(oxy-1,2-ethanediyl),alpha-hydro-omega-hydroxy-ethane-1,2-diol, ethoxylated	Ingestion	Rat	LD50 32,770 mg/kg

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Sodium carboxymethyl cellulose	Ingestion	Rat	LD50 > 27,000 mg/kg
Sodium dodecyl sulphate	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 0.975 mg/l
Sodium dodecyl sulphate	Ingestion	Rat	LD50 1,650 mg/kg
1,2-Benzisothiazol-3(2H)-one 1,1-dioxide, sodium salt	Ingestion	Rat	LD50 14,200 mg/kg
Titanium dioxide	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 6.82 mg/l
Titanium dioxide	Ingestion	Rat	LD50 > 10,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Silica gel precipitated, crystalline free	Rabbit	No significant irritation
Amorphous silica	Rabbit	No significant irritation
Glycerol	Rabbit	No significant irritation
Sodium fluoride	official classification	Irritant
Poly(oxy-1,2-ethanediyl),alpha-hydro-omega-hydroxy-ethane-1,2-diol, ethoxylated	Rabbit	Minimal irritation
Sodium carboxymethyl cellulose	Human	No significant irritation
Sodium dodecyl sulphate	Rabbit	Irritant
Titanium dioxide	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Silica gel precipitated, crystalline free	Rabbit	No significant irritation
Amorphous silica	Rabbit	No significant irritation
Glycerol	Rabbit	No significant irritation
Sodium fluoride	official classification	Severe irritant
Poly(oxy-1,2-ethanediyl),alpha-hydro-omega-hydroxy-ethane-1,2-diol, ethoxylated	Rabbit	Mild irritant
Sodium carboxymethyl cellulose	Rabbit	No significant irritation
Sodium dodecyl sulphate	Rabbit	Corrosive
Titanium dioxide	Rabbit	No significant irritation

Skin Sensitisation

Name	Species	Value
Silica gel precipitated, crystalline free	Human and animal	Not classified
Amorphous silica	Human and animal	Not classified
Glycerol	Guinea pig	Not classified
Poly(oxy-1,2-ethanediyl),alpha-hydro-omega-hydroxy-ethane-1,2-diol, ethoxylated	Guinea pig	Not classified
Sodium carboxymethyl cellulose	Human	Not classified
Titanium dioxide	Human and animal	Not classified

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
Silica gel precipitated, crystalline free	In Vitro	Not mutagenic
Amorphous silica	In Vitro	Not mutagenic
Poly(oxy-1,2-ethanediyl),alpha-hydro-omega-	In Vitro	Not mutagenic

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hydroxy-ethane-1,2-diol, ethoxylated		
Poly(oxy-1,2-ethanediyl),alpha-hydro-omega-hydroxy-ethane-1,2-diol, ethoxylated	In vivo	Not mutagenic
Sodium carboxymethyl cellulose	In Vitro	Not mutagenic
Titanium dioxide	In Vitro	Not mutagenic
Titanium dioxide	In vivo	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Silica gel precipitated, crystalline free	Not specified.	Mouse	Some positive data exist, but the data are not sufficient for classification
Amorphous silica	Not specified.	Mouse	Some positive data exist, but the data are not sufficient for classification
Glycerol	Ingestion	Mouse	Some positive data exist, but the data are not sufficient for classification
Poly(oxy-1,2-ethanediyl),alpha-hydro-omega-hydroxy-ethane-1,2-diol, ethoxylated	Ingestion	Rat	Not carcinogenic
Titanium dioxide	Ingestion	Multiple animal species	Not carcinogenic
Titanium dioxide	Inhalation	Rat	Carcinogenic.

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Silica gel precipitated, crystalline free	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Silica gel precipitated, crystalline free	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Silica gel precipitated, crystalline free	Ingestion	Not classified for development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis
Amorphous silica	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Amorphous silica	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Amorphous silica	Ingestion	Not classified for development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis
Glycerol	Ingestion	Not classified for female reproduction	Rat	NOAEL 2,000 mg/kg/day	2 generation
Glycerol	Ingestion	Not classified for male reproduction	Rat	NOAEL 2,000 mg/kg/day	2 generation
Glycerol	Ingestion	Not classified for development	Rat	NOAEL 2,000 mg/kg/day	2 generation
Poly(oxy-1,2-ethanediyl),alpha-hydro-omega-hydroxy-ethane-1,2-diol, ethoxylated	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,125 mg/kg/day	during gestation
Poly(oxy-1,2-ethanediyl),alpha-hydro-omega-	Ingestion	Not classified for male reproduction	Rat	NOAEL 5699 +/-1341 mg/kg/day	5 days

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hydroxy-ethane-1,2-diol, ethoxylated					
Poly(oxy-1,2-ethanediyl),alpha-hydro-omega-hydroxy-ethane-1,2-diol, ethoxylated	Not specified.	Not classified for reproduction and/or development		NOEL N/A	
Poly(oxy-1,2-ethanediyl),alpha-hydro-omega-hydroxy-ethane-1,2-diol, ethoxylated	Ingestion	Not classified for development	Mouse	NOAEL 562 mg/animal/day	during gestation
Sodium carboxymethyl cellulose	Ingestion	Not classified for female reproduction	Rat	NOAEL 1 g/kg in the diet	3 generation
Sodium carboxymethyl cellulose	Ingestion	Not classified for male reproduction	Rat	NOAEL 1 g/kg in the diet	3 generation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Sodium fluoride	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
Poly(oxy-1,2-ethanediyl),alpha-hydro-omega-hydroxy-ethane-1,2-diol, ethoxylated	Inhalation	respiratory irritation	Not classified	Rat	NOAEL 1.008 mg/l	2 weeks
Sodium dodecyl sulphate	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
Silica gel precipitated, crystalline free	Inhalation	respiratory system silicosis	Not classified	Human	NOAEL Not available	occupational exposure
Amorphous silica	Inhalation	respiratory system silicosis	Not classified	Human	NOAEL Not available	occupational exposure
Glycerol	Inhalation	respiratory system heart liver kidney and/or bladder	Not classified	Rat	NOAEL 3.91 mg/l	14 days
Glycerol	Ingestion	endocrine system hematopoietic system liver kidney and/or bladder	Not classified	Rat	NOAEL 10,000 mg/kg/day	2 years

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Sodium fluoride	Inhalation	bone, teeth, nails, and/or hair	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
Sodium fluoride	Ingestion	bone, teeth, nails, and/or hair	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL 0.33 mg/kg/day	environmental exposure
Poly(oxy-1,2-ethanediyl),alpha-hydro-omega-hydroxy-ethane-1,2-diol, ethoxylated	Inhalation	respiratory system	Not classified	Rat	NOAEL 1.008 mg/l	2 weeks
Poly(oxy-1,2-ethanediyl),alpha-hydro-omega-hydroxy-ethane-1,2-diol, ethoxylated	Ingestion	kidney and/or bladder heart endocrine system hematopoietic system liver nervous system	Not classified	Rat	NOAEL 5,640 mg/kg/day	13 weeks
Sodium carboxymethyl cellulose	Ingestion	blood kidney and/or bladder	Not classified	Rat	NOAEL 1 g/kg in the diet	25 months
Titanium dioxide	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 0.01 mg/l	2 years
Titanium dioxide	Inhalation	pulmonary fibrosis	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 3: Harmful to aquatic life.

Chronic aquatic hazard:

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Not chronically toxic to aquatic life by GHS criteria.

No product test data available.

Material	CAS Number	Organism	Type	Exposure	Test endpoint	Test result
Non-crystallizing sorbitol solution	50-70-4		Data not available or insufficient for classification			
Silica gel precipitated, crystalline free	112926-00-8	Green algae	Estimated	72 hours	EC50	440 mg/l
Silica gel precipitated, crystalline free	112926-00-8	Water flea	Estimated	48 hours	EC50	7,600 mg/l
Silica gel precipitated, crystalline free	112926-00-8	Zebra Fish	Estimated	96 hours	LC50	5,000 mg/l
Silica gel precipitated, crystalline free	112926-00-8	Green algae	Estimated	72 hours	NOEC	60 mg/l
Glycerol	56-81-5	Rainbow trout	Experimental	96 hours	LC50	54,000 mg/l
Glycerol	56-81-5	Water flea	Experimental	48 hours	LC50	1,955 mg/l
Amorphous silica	7631-86-9		Data not available or insufficient for classification			
Polyethylene-polypropylene glycol	9003-11-6		Data not available or insufficient for classification			
Poly(oxy-1,2-ethanediyl),alpha-hydro-omega-hydroxy-ethane-1,2-diol, ethoxylated	25322-68-3	Atlantic Salmon	Experimental	96 hours	LC50	>1,000 mg/l
Sodium fluoride	7681-49-4	Crustacea other	Experimental	96 hours	EC50	57 mg/l
Sodium fluoride	7681-49-4	Green algae	Experimental	96 hours	EC50	95 mg/l
Sodium fluoride	7681-49-4	Rainbow trout	Experimental	96 hours	LC50	238 mg/l
Sodium fluoride	7681-49-4	Rainbow trout	Experimental	21 days	NOEC	4 mg/l
Sodium fluoride	7681-49-4	Water flea	Experimental	21 days	NOEC	31 mg/l
Sodium dodecyl sulphate	151-21-3	Algae or other aquatic plants	Experimental	96 hours	EC50	30.2 mg/l
Sodium dodecyl sulphate	151-21-3	Atlantic Silverside	Experimental	96 hours	LC50	2.8 mg/l
Sodium	151-21-3	Crustacea other	Experimental	48 hours	LC50	1.9 mg/l

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dodecyl sulphate						
Sodium dodecyl sulphate	151-21-3	Fish other	Experimental	96 hours	LC50	0.59 mg/l
Sodium dodecyl sulphate	151-21-3	Green algae	Experimental	96 hours	EC50	117 mg/l
Sodium dodecyl sulphate	151-21-3	Water flea	Experimental	48 hours	LC50	1.4 mg/l
Sodium dodecyl sulphate	151-21-3	Fathead minnow	Experimental	42 days	NOEC	1.357 mg/l
Sodium dodecyl sulphate	151-21-3	Green Algae	Experimental	96 hours	Effect Concentration 10%	12 mg/l
Sodium dodecyl sulphate	151-21-3	Water flea	Experimental	7 days	NOEC	0.88 mg/l
Sodium carboxymethyl cellulose	9004-32-4	Water flea	Experimental	48 hours	EC50	87.26 mg/l
Sodium carboxymethyl cellulose	9004-32-4	Rainbow trout	Laboratory	96 hours	EC50	>20,000 mg/l
1,2-Benzisothiazol-3(2H)-one 1,1-dioxide, sodium salt	128-44-9	Fathead minnow	Experimental	96 hours	LC50	18,300 mg/l
1,2-Benzisothiazol-3(2H)-one 1,1-dioxide, sodium salt	128-44-9	Green algae	Experimental	72 hours	EC50	>200 mg/l
Titanium dioxide	13463-67-7	Diatom	Experimental	72 hours	EC50	>10,000 mg/l
Titanium dioxide	13463-67-7	Fathead minnow	Experimental	96 hours	LC50	>100 mg/l
Titanium dioxide	13463-67-7	Water flea	Experimental	48 hours	EC50	>100 mg/l
Titanium dioxide	13463-67-7	Diatom	Experimental	72 hours	NOEC	5,600 mg/l

12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Non-crystallizing sorbitol solution	50-70-4	Experimental Biodegradation	14 days	BOD	81 % weight	OECD 301C - MITI test (I)
Silica gel precipitated, crystalline free	112926-00-8	Data not available-insufficient			N/A	

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Glycerol	56-81-5	Experimental Biodegradation	14 days	BOD	63 % BOD/ThBOD	OECD 301C - MITI test (I)
Amorphous silica	7631-86-9	Data not available-insufficient			N/A	
Polyethylene-polypropylene glycol	9003-11-6	Data not available-insufficient			N/A	
Poly(oxy-1,2-ethanediyl),alpha-hydro-omega-hydroxy-ethane-1,2-diol, ethoxylated	25322-68-3	Experimental Biodegradation	28 days	BOD	53 % BOD/ThBOD	OECD 301C - MITI test (I)
Sodium fluoride	7681-49-4	Data not available-insufficient			N/A	
Sodium dodecyl sulphate	151-21-3	Experimental Biodegradation	28 days	CO2 evolution	95 % weight	OECD 301B - Modified sturm or CO2
Sodium carboxymethyl cellulose	9004-32-4	Estimated Biodegradation	28 days	BOD	25 % BOD/ThBOD	OECD 301A - DOC Die Away Test
1,2-Benzisothiazol-3(2H)-one 1,1-dioxide, sodium salt	128-44-9	Experimental Biodegradation	28 days	BOD	32.09 % BOD/ThBOD	OECD 301F - Manometric respirometry
Titanium dioxide	13463-67-7	Data not available-insufficient			N/A	

12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Non-crystallizing sorbitol solution	50-70-4	Experimental Bioconcentration		Log Kow	-2.20	Other methods
Silica gel precipitated, crystalline free	112926-00-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Glycerol	56-81-5	Experimental Bioconcentration		Log Kow	-1.76	Other methods
Amorphous silica	7631-86-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Polyethylene-polypropylene glycol	9003-11-6	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

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Poly(oxy-1,2-ethanediyl), alpha-hydro-omega-hydroxy-ethane-1,2-diol, ethoxylated	25322-68-3	Estimated Bioconcentration		Bioaccumulation factor	2.3	Estimated: Bioconcentration factor
Sodium fluoride	7681-49-4	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Sodium dodecyl sulphate	151-21-3	Experimental Bioconcentration		Log Kow	≤-2.03	Other methods
Sodium carboxymethyl cellulose	9004-32-4	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
1,2-Benzisothiazol-3(2H)-one 1,1-dioxide, sodium salt	128-44-9	Experimental Bioconcentration		Log Kow	0.11	Other methods
Titanium dioxide	13463-67-7	Experimental BCF-Carp	42 days	Bioaccumulation factor	9.6	Other methods

12.4. Mobility in soil

Please contact manufacturer for more details

12.5 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Disposal methods

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

Incinerate in a permitted waste incineration facility. 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:

This product is regulated by the Therapeutics Goods Administration and is exempt from compliance with 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