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™ Strip-Calk (Black), PN 08578

Product Identification Numbers
60-9800-1955-2

1.2. Recommended use and restrictions on use

Recommended use
Automotive., Caulk for use in seams, joints, and openings.

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 Sensitizer: Category 1A.

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
Not applicable.

Symbols
Exclamation mark |

Pictograms

Hazard statements

H317	May cause an allergic skin reaction.

Precautionary statements
General:

P102	Keep out of reach of children.
P103	Read label before use.
P101	If medical advice is needed, have product container or label at hand.

Prevention:

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280E	Wear protective gloves.
P272	Contaminated work clothing should not be allowed out of the workplace.

Response:

P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P321	Specific treatment (see Notes to Physician on this label).

Disposal:

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

2.3. Other assigned/identified product hazards
Repeated exposure may cause skin dryness or cracking.

2.4. Other hazards which do not result in classification
Harmful to aquatic life.
Toxic to aquatic life with long lasting effects.

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	CAS Nbr	% by Weight
Kaolin	1332-58-7	15 - 40
Oxide Glass Chemicals	65997-17-3	20 - 40
Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)	9003-29-6	10 - 30
Polyisobutylene	9003-27-4	5 10

Aluminum Silicate	1327-36-2	< 6
Limestone	1317-65-3	1 - 5
Aluminium Stearate	637-12-7	0.5 - 1.5
Mica-Group Minerals	12001-26-2	< 1.5
Quartz	14808-60-7	< 1.5
Silicon dioxide	7631-86-9	0.5 - 1.5
4,4'-Thiobis(6-Tert-Butyl-M-Cresol)	96-69-5	0.1 - 1
Rheological Additive	Mixture	0.1 - 1
Carbon black	1333-86-4	< 0.5
Chromium	7440-47-3	< 0.05

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
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
Material will not burn.

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
No special protective actions for fire-fighters are anticipated.

Hazchem Code: 2Z

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
Keep out of reach of children. 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
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
Mica-Group Minerals	12001-26-2	ACGIH	TWA(respirable fraction):3 mg/m3	
Mica-Group Minerals	12001-26-2	Australia OELs	TWA(Inspirable)(8 hours):2.5 mg/m3	
Limestone	1317-65-3	Australia OELs	TWA(Inspirable dust)(8 hours):10 mg/m3	
Aluminum, insoluble compounds	1327-36-2	ACGIH	TWA(respirable fraction):1 mg/m3	A4: Not class. as human carcin
Kaolin	1332-58-7	ACGIH	TWA(respirable fraction):2 mg/m3	A4: Not class. as human carcin
Kaolin	1332-58-7	Australia OELs	TWA(Inspirable dust)(8 hours):10 mg/m3	
Carbon black	1333-86-4	ACGIH	TWA(inhalable fraction):3 mg/m3	A3: Confirmed animal carcinogen.
Carbon black	1333-86-4	Australia OELs	TWA(8 hours): 3 mg/m3	
Quartz	14808-60-7	ACGIH	TWA(respirable fraction):0.025 mg/m3	A2: Suspected human carcin.
Quartz	14808-60-7	Australia OELs	TWA(8 hours):0.1 mg/m3;Limit value not established:	

Aluminum, insoluble compounds	637-12-7	ACGIH	TWA(respirable fraction):1 mg/m3	A4: Not class. as human carcin
Aluminium, soluable salts	637-12-7	Australia OELs	TWA(as Al)(8 hours):2 mg/m3	
CERAMIC FIBERS	65997-17-3	ACGIH	TWA(as fiber):0.2 fiber/cc	A2: Suspected human carcin.
CERAMIC FIBERS	65997-17-3	Australia OELs	TWA(as fiber)(8 hours):0.5 fibers/ml	
CONTINUOUS FILAMENT GLASS FIBERS, INHALABLE FRACTION	65997-17-3	ACGIH	TWA(inhalable fraction):5 mg/m3	A4: Not class. as human carcin
Glass filaments	65997-17-3	Australia OELs	TWA(8 hours):0.5 fibers/ml;TWA(as fiber)(8 hours):0.5 fibers/ml	
Oxide Glass Chemicals	65997-17-3	Manufacturer determined	TWA(as non-fibrous, inhalable fraction)(8 hours):10 mg/m3;TWA(as non-fibrous, respirable)(8 hours):3 mg/m3	
SPECIAL PURPOSE GLASS FIBERS	65997-17-3	ACGIH	TWA(as fiber):1 fiber/cc	A3: Confirmed animal carcinogen.
Chromium	7440-47-3	ACGIH	TWA(as Cr(0), inhalable fraction):0.5 mg/m3	
Chromium	7440-47-3	Australia OELs	TWA(8 hours): 0.5 mg/m3	
Silicon dioxide	7631-86-9	Australia OELs	TWA(respirable fraction)(8 hours):2 mg/m3	
Silica gel, precipitated, crystalline-free	7631-86-9	Australia OELs	TWA(Inspirable fraction)(8 hours):10 mg/m3	
4,4'-Thiobis(6-Tert-Butyl-M-Cresol)	96-69-5	ACGIH	TWA(inhalable fraction):1 mg/m3	A4: Not class. as human carcin
4,4'-Thiobis(6-Tert-Butyl-M-Cresol)	96-69-5	Australia OELs	TWA(8 hours):10 mg/m3	

ACGIH : American Conference of Governmental Industrial Hygienists
AIHA : American Industrial Hygiene Association
Australia OELs : Australia. Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment
CMRG : Chemical Manufacturer's Recommended Guidelines
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling
Sen: Sensitiser
Sk: Absorption through the skin may be a significant source of exposure.

8.2. Exposure controls

8.2.1. Engineering controls
No engineering controls required.

8.2.2. Personal protective equipment (PPE)

Eye/face protection
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.
Gloves made from the following material(s) are recommended: Neoprene.

Nitrile rubber.
Polyvinyl chloride.

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: Neoprene apron.
Apron – Nitrile

Select and use gloves according to AS/NZ 2161.

Respiratory protection

Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Solid.
Specific Physical Form:	Viscous putty
Appearance/Odour	Black, soft putty
Odour threshold	*No data available.*
pH	*Not applicable.*
Melting point/Freezing point	*No data available.*
Boiling point/Initial boiling point/Boiling range	*Not applicable.*
Flash point	No flash point
Evaporation rate	*Not applicable.*
Flammability (solid, gas)	Not classified
Flammable Limits(LEL)	*Not applicable.*
Flammable Limits(UEL)	*Not applicable.*
Vapour pressure	*Not applicable.*
Vapour density	*Not applicable.*
Density	1.92 g/cm3
Relative density	1.92 [*Ref Std:*WATER=1]
Water solubility	Slight (less than 10%)
Solubility- non-water	Slight (less than 10%)
Partition coefficient: n-octanol/water	*No data available.*
Autoignition temperature	*No data available.*
Decomposition temperature	*No data available.*
Viscosity	*No data available.*
Volatile organic compounds (VOC)	0 g/l [*Test Method:*calculated SCAQMD rule 443.1]
Volatile organic compounds (VOC)	0 % weight [*Test Method:*calculated per CARB title 2]
Percent volatile	0 % weight
VOC less H2O & exempt solvents	0 g/l [*Test Method:*calculated SCAQMD rule 443.1]
Solids content	77.6 % weight

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

Sparks and/or flames.

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

10.5 Incompatible materials
Not determined

10.6 Hazardous decomposition products

Substance	Condition
None known.	

SECTION 11: Toxicological information

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

11.1 Information on Toxicological effects

Signs and Symptoms of Exposure

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

Inhalation
No known health effects.

Skin contact
Prolonged or repeated exposure may cause:
Dermal Defatting: Signs/symptoms may include localised redness, itching, drying and cracking of skin.
Allergic skin reaction (non-photo induced): 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
Oxide Glass Chemicals	Dermal		LD50 estimated to be > 5,000 mg/kg
Oxide Glass Chemicals	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
Kaolin	Dermal		LD50 estimated to be > 5,000 mg/kg
Kaolin	Ingestion	Human	LD50 > 15,000 mg/kg

Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)	Dermal	Rat	LD50 > 10,250 mg/kg
Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)	Ingestion	Rat	LD50 > 34,600 mg/kg
Polyisobutylene	Dermal		LD50 estimated to be > 5,000 mg/kg
Polyisobutylene	Ingestion	Rat	LD50 > 2,000 mg/kg
Aluminum Silicate	Dermal		LD50 estimated to be > 5,000 mg/kg
Aluminum Silicate	Ingestion		LD50 estimated to be > 5,000 mg/kg
Aluminium Stearate	Dermal	Guinea pig	LD50 > 3,000 mg/kg
Aluminium Stearate	Ingestion	Rat	LD50 > 5,000 mg/kg
Limestone	Dermal	Rat	LD50 > 2,000 mg/kg
Limestone	Inhalation-Dust/Mist (4 hours)	Rat	LC50 3 mg/l
Limestone	Ingestion	Rat	LD50 6,450 mg/kg
Silicon dioxide	Dermal	Rabbit	LD50 > 5,000 mg/kg
Silicon dioxide	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
Silicon dioxide	Ingestion	Rat	LD50 > 5,110 mg/kg
Mica-Group Minerals	Dermal		LD50 estimated to be > 5,000 mg/kg
Mica-Group Minerals	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
Quartz	Dermal		LD50 estimated to be > 5,000 mg/kg
Quartz	Ingestion		LD50 estimated to be > 5,000 mg/kg
4,4'-Thiobis(6-Tert-Butyl-M-Cresol)	Dermal	Rabbit	LD50 > 5,010 mg/kg
4,4'-Thiobis(6-Tert-Butyl-M-Cresol)	Ingestion	Rat	LD50 2,315 mg/kg
Carbon black	Dermal	Rabbit	LD50 > 3,000 mg/kg
Carbon black	Ingestion	Rat	LD50 > 8,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Oxide Glass Chemicals	Professional judgement	No significant irritation
Kaolin	Professional judgement	No significant irritation
Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)	Rabbit	Minimal irritation
Polyisobutylene	Rabbit	No significant irritation
Limestone	Rabbit	No significant irritation
Silicon dioxide	Rabbit	No significant irritation
Quartz	Professional judgement	No significant irritation
4,4'-Thiobis(6-Tert-Butyl-M-Cresol)	Rabbit	Mild irritant
Carbon black	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Oxide Glass Chemicals	Professional judgement	No significant irritation
Kaolin	Professional judgement	No significant irritation
Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)	Rabbit	Mild irritant
Polyisobutylene	Rabbit	No significant irritation
Limestone	Rabbit	No significant irritation
Silicon dioxide	Rabbit	No significant irritation
4,4'-Thiobis(6-Tert-Butyl-M-Cresol)	Rabbit	Moderate irritant
Carbon black	Rabbit	No significant irritation

Skin Sensitisation

Name	Species	Value
Silicon dioxide	Human and animal	Not classified
4,4'-Thiobis(6-Tert-Butyl-M-Cresol)	Guinea pig	Sensitising

Respiratory Sensitisation

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

Germ Cell Mutagenicity

Name	Route	Value
Oxide Glass Chemicals	In Vitro	Some positive data exist, but the data are not sufficient for classification
Silicon dioxide	In Vitro	Not mutagenic
Quartz	In Vitro	Some positive data exist, but the data are not sufficient for classification
Quartz	In vivo	Some positive data exist, but the data are not sufficient for classification
Carbon black	In Vitro	Not mutagenic
Carbon black	In vivo	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Oxide Glass Chemicals	Inhalation	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
Kaolin	Inhalation	Multiple animal species	Not carcinogenic
Silicon dioxide	Not specified.	Mouse	Some positive data exist, but the data are not sufficient for classification
Quartz	Inhalation	Human and animal	Carcinogenic.
Carbon black	Dermal	Mouse	Not carcinogenic
Carbon black	Ingestion	Mouse	Not carcinogenic
Carbon black	Inhalation	Rat	Carcinogenic.

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Limestone	Ingestion	Not classified for development	Rat	NOAEL 625 mg/kg/day	premating & during gestation
Silicon dioxide	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Silicon dioxide	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Silicon dioxide	Ingestion	Not classified for development	Rat	NOAEL 1,350 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
Limestone	Inhalation	respiratory system	Not classified	Rat	NOAEL 0.812 mg/l	90 minutes

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Oxide Glass Chemicals	Inhalation	respiratory system	Not classified	Human	NOAEL not available	occupational exposure
Kaolin	Inhalation	pneumoconiosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL NA	occupational exposure
Kaolin	Inhalation	pulmonary fibrosis	Not classified	Rat	NOAEL Not available	
Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 0.07 mg/l	2 weeks
Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)	Inhalation	liver	Not classified	Rat	NOAEL 0.7 mg/l	2 weeks
Limestone	Inhalation	respiratory system	Not classified	Human	NOAEL Not available	occupational exposure
Silicon dioxide	Inhalation	respiratory system | silicosis	Not classified	Human	NOAEL Not available	occupational exposure
Mica-Group Minerals	Inhalation	pneumoconiosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
Quartz	Inhalation	silicosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
Carbon black	Inhalation	pneumoconiosis	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:
GHS Chronic 2: Toxic to aquatic life with long lasting effects.

No product test data available.

Material	CAS Number	Organism	Type	Exposure	Test endpoint	Test result
Kaolin	1332-58-7	Water flea	Experimental	48 hours	LC50	>1,100 mg/l
Oxide Glass Chemicals	65997-17-3	Green algae	Experimental	72 hours	EC50	>1,000 mg/l
Oxide Glass Chemicals	65997-17-3	Water flea	Experimental	72 hours	EC50	>1,000 mg/l
Oxide Glass Chemicals	65997-17-3	Zebra Fish	Experimental	96 hours	LC50	>1,000 mg/l
Oxide Glass Chemicals	65997-17-3	Green algae	Experimental	72 hours	NOEC	>=1,000 mg/l
Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)	9003-29-6		Data not available or insufficient for classification			
Polyisobutylene	9003-27-4		Data not available or insufficient for classification			
Aluminum Silicate	1327-36-2	Green algae	Endpoint not reached	72 hours	EC50	>100 mg/l
Aluminum Silicate	1327-36-2	Water flea	Estimated	48 hours	EC50	>100 mg/l
Aluminum Silicate	1327-36-2	Zebra Fish	Estimated	96 hours	LC50	>100 mg/l
Aluminum Silicate	1327-36-2	Green algae	Estimated	72 hours	Effect Concentration 10%	41 mg/l
Aluminum Silicate	1327-36-2	Water flea	Estimated	21 days	NOEC	100 mg/l
Limestone	1317-65-3	Green algae	Estimated	72 hours	EC50	>100 mg/l
Limestone	1317-65-3	Rainbow trout	Estimated	96 hours	LC50	>100 mg/l
Limestone	1317-65-3	Water flea	Estimated	48 hours	EC50	>100 mg/l
Limestone	1317-65-3	Green algae	Estimated	72 hours	Effect Concentration 10%	>100 mg/l
Aluminium Stearate	637-12-7		Data not available or insufficient for classification			
Mica-Group Minerals	12001-26-2		Data not available or insufficient for classification			
Quartz	14808-60-7	Green Algae	Estimated	72 hours	EC50	440 mg/l

Quartz	14808-60-7	Water flea	Estimated	48 hours	EC50	7,600 mg/l
Quartz	14808-60-7	Zebra Fish	Estimated	96 hours	LC50	5,000 mg/l
Quartz	14808-60-7	Green Algae	Estimated	72 hours	NOEC	60 mg/l
Silicon dioxide	7631-86-9		Data not available or insufficient for classification			
4,4'-Thiobis(6-Tert-Butyl-M-Cresol)	96-69-5	Fathead minnow	Experimental	96 hours	LC50	0.36 mg/l
4,4'-Thiobis(6-Tert-Butyl-M-Cresol)	96-69-5	Water flea	Experimental	48 hours	EC50	0.16 mg/l
4,4'-Thiobis(6-Tert-Butyl-M-Cresol)	96-69-5	Water flea	Experimental	21 days	NOEC	0.0071 mg/l
Carbon black	1333-86-4		Data not available or insufficient for classification			
Chromium	7440-47-3		Data not available or insufficient for classification			

12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Kaolin	1332-58-7	Data not available-insufficient			N/A	
Oxide Glass Chemicals	65997-17-3	Data not available-insufficient			N/A	
Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)	9003-29-6	Data not available-insufficient			N/A	
Polyisobutylene	9003-27-4	Estimated Biodegradation	28 days	BOD	2.8 % weight	OECD 301B - Modified sturm or CO2
Aluminum Silicate	1327-36-2	Data not available-insufficient			N/A	
Limestone	1317-65-3	Data not available-insufficient			N/A	
Aluminium Stearate	637-12-7	Estimated Biodegradation	24 days	CO2 evolution	91 % weight	Other methods
Mica-Group Minerals	12001-26-2	Data not available-insufficient			N/A	
Quartz	14808-60-7	Data not			N/A	

		available-insufficient				
Silicon dioxide	7631-86-9	Data not available-insufficient			N/A	
4,4'-Thiobis(6-Tert-Butyl-M-Cresol)	96-69-5	Data not available-insufficient			N/A	
Carbon black	1333-86-4	Data not available-insufficient			N/A	
Chromium	7440-47-3	Data not available-insufficient			N/A	

12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Kaolin	1332-58-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Oxide Glass Chemicals	65997-17-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)	9003-29-6	Estimated Bioconcentration		Bioaccumulation factor	<=78	Estimated: Bioconcentration factor
Polyisobutylene	9003-27-4	Estimated Bioconcentration		Bioaccumulation factor	8.8	Estimated: Bioconcentration factor
Aluminum Silicate	1327-36-2	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Limestone	1317-65-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Aluminium Stearate	637-12-7	Estimated BCF-Carp	56 days	Bioaccumulation factor	≤110	Other methods
Mica-Group Minerals	12001-26-2	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Quartz	14808-60-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Silicon dioxide	7631-86-9	Data not available or	N/A	N/A	N/A	N/A

		insufficient for classification				
4,4'-Thiobis(6-Tert-Butyl-M-Cresol)	96-69-5	Experimental BCF-Carp	42 days	Bioaccumulation factor	11	Other methods
Carbon black	1333-86-4	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Chromium	7440-47-3	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. 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.: UN3077
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. , (4,4'-Thiobis(6-tert-butyl-m-cresol))
Class/Division: 9
Sub Risk: Not applicable.
Packing Group: III
Special Instructions: Australian Dangerous Goods Code: Not subject to this code as per Special Provision AU01
Hazchem Code: 2Z
IERG: 47

International Air Transport Association (IATA) - Air Transport
UN No.: UN3077
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. , (4,4'-Thiobis(6-tert-butyl-m-cresol))
Class/Division: 9
Sub Risk: Not applicable.
Packing Group: III
Special Instructions: Not restricted, as per Special Provision A197, environmentally hazardous substance exception.

International Maritime Dangerous Goods Code (IMDG)- Marine Transport
UN No.: UN3077
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. , (4,4'-Thiobis(6-tert-butyl-m-cresol))

Class/Division: 9
Sub Risk: Not applicable.
Packing Group: III
Marine Pollutant: 4,4'-Thiobis(6-tert-butyl-m-cresol)
Special Instructions: Not restricted, as per IMDG code 2.10.2.7, marine pollutant exception.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Australian Inventory Status:
The chemical components contained within this product are listed on the Australian Inventory of Chemical Substances and are in compliance with the requirements of the Industrial Chemicals (Notification and Assessment) Act 1989 as amended.

SECTION 16: Other information

Revision information:
Initial issue.

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