Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the South African National Standard SANS 10234:2008.

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.

1.3. Supplier's details

Address:	3M South Africa (Pty) Ltd, Private Bag X926, Rivonia 2128
Telephone:	011 806 2000
E Mail:	Not available.
Website:	www.3m.co.za

1.4. Emergency telephone number
011 806 2000

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture
Skin Sensitizer: Category 1A.
Acute Aquatic Toxicity: Category 3.
Chronic Aquatic Toxicity: Category 2.

2.2. Label elements

Signal word
Warning

Symbols
Exclamation mark |Environment |

Pictograms

HAZARD STATEMENTS:

H317	May cause an allergic skin reaction.
H402	Harmful to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

General:

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

Prevention:

P273	Avoid release to the environment.
P280E	Wear protective gloves.

Response:

P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P391	Collect spillage.

Disposal:

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

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	CAS Nbr	% by Wt
Kaolin	1332-58-7	15 - 40
Oxide Glass Chemicals	65997-17-3	15 - 40
Polyisobutylene	9003-27-4	10 - 30
Aluminatesilicate	1327-36-2	< 6
Aluminum Distearate	300-92-5	1 - 5
Isobutylene - isoprene polymer	9010-85-9	1 - 5
Rheological Additive	Trade Secret	< 2
Silicon dioxide	7631-86-9	0.5 - 1.5
Carbon black	1333-86-4	0.5 - 1.5
Quartz	14808-60-7	0.1 - 1
Titanium dioxide	13463-67-7	< 0.5
4,4'-Thiobis(6-Tert-Butyl-M-Cresol)	96-69-5	< 0.4
Lead	7439-92-1	< 0.002

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

Allergic skin reaction (redness, swelling, blistering, and itching).

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
Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS. 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.

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
Aluminum, insoluble compounds	1327-36-2	ACGIH	TWA(respirable fraction):1 mg/m3	A4: Not class. as human carcin
Aluminum, insoluble compounds	1327-36-2	South Africa RELs	TWA(as Al, respirable fraction)(8 hours):2 mg/m3	
Kaolin	1332-58-7	ACGIH	TWA(respirable fraction):2 mg/m3	A4: Not class. as human carcin
Carbon black	1333-86-4	ACGIH	TWA(inhalable fraction):3 mg/m3	A3: Confirmed animal carcin.
Carbon black	1333-86-4	South Africa RELs	TWA(inhalable fraction)(8 hours):6 mg/m3	
Titanium dioxide	13463-67-7	ACGIH	TWA(Respirable nanoscale particles):0.2 mg/m3;TWA(Respirable finescale particles):2.5 mg/m3	A3: Confirmed animal carcin.
Titanium dioxide	13463-67-7	South Africa RELs	STEL(15 minutes):10 ppm	
Quartz	14808-60-7	ACGIH	TWA(respirable fraction):0.025 mg/m3	A2: Suspected human carcin.
Quartz	14808-60-7	South Africa CLs	TWA(respirable fraction)(8 hours):0.1 mg/m3	
Aluminum, insoluble compounds	300-92-5	ACGIH	TWA(respirable fraction):1 mg/m3	A4: Not class. as human carcin
Aluminum, insoluble compounds	300-92-5	South Africa RELs	TWA(as Al, respirable fraction)(8 hours):2 mg/m3	
Lead	7439-92-1	ACGIH	TWA(as Pb):0.05 mg/m3	A3: Confirmed animal carcin.
Lead	7439-92-1	South Africa CLs	Limit value not established:	
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	South Africa RELs	Limit value not established:	

ACGIH : American Conference of Governmental Industrial Hygienists
AIHA : American Industrial Hygiene Association
CMRG : Chemical Manufacturer's Recommended Guidelines
South Africa CLs : South Africa. Control Limits. Regulations for Hazardous Chemical Substances, Table 1
South Africa RELs : South Africa. Recommended Exposure Limits (RELs) Regulations for Hazardous Chemical Substances, Table 2
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling

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
Apron - PVC

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
Colour	Black
Odor	Faint Earthy
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	Not applicable.
Flammable Limits(LEL)	*Not applicable.*

Flammable Limits(UEL)	*Not applicable.*
Vapour pressure	*Not applicable.*
Relative Vapor 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.*
Kinematic 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

Particle Characteristics	*Not applicable.*

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 Possibility of hazardous reactions
Hazardous polymerisation will not occur.

10.4 Conditions to avoid
Sparks and/or flames.

10.5 Incompatible materials
Not determined

10.6 Hazardous decomposition products

Substance	**Condition**
None known.	

Refer to section 5.2 for hazardous decomposition products during combustion.

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
Contact with the skin during product use is not expected to result in significant irritation. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

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

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
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
Polyisobutylene	Dermal		LD50 estimated to be > 5 000 mg/kg
Polyisobutylene	Ingestion	Rat	LD50 > 2 000 mg/kg
Aluminatesilicate	Dermal		LD50 estimated to be > 5 000 mg/kg
Aluminatesilicate	Ingestion		LD50 estimated to be > 5 000 mg/kg
Isobutylene - isoprene polymer	Dermal		LD50 estimated to be > 5 000 mg/kg
Isobutylene - isoprene polymer	Ingestion		LD50 estimated to be > 5 000 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
Carbon black	Dermal	Rabbit	LD50 > 3 000 mg/kg
Carbon black	Ingestion	Rat	LD50 > 8 000 mg/kg
Quartz	Dermal		LD50 estimated to be > 5 000 mg/kg
Quartz	Ingestion		LD50 estimated to be > 5 000 mg/kg
Titanium dioxide	Dermal	Rabbit	LD50 > 10 000 mg/kg
Titanium dioxide	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 6,82 mg/l
Titanium dioxide	Ingestion	Rat	LD50 > 10 000 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
Lead	Dermal		LD50 estimated to be 2 000 - 5 000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Oxide Glass Chemicals	Professional judgemen	No significant irritation

	t	
Kaolin	Professional judgement	No significant irritation
Polyisobutylene	Rabbit	No significant irritation
Isobutylene - isoprene polymer	Rabbit	No significant irritation
Silicon dioxide	Rabbit	No significant irritation
Carbon black	Rabbit	No significant irritation
Quartz	Professional judgement	No significant irritation
Titanium dioxide	Rabbit	No significant irritation
4,4'-Thiobis(6-Tert-Butyl-M-Cresol)	Rabbit	Mild irritant
Lead	similar compounds	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Oxide Glass Chemicals	Professional judgement	No significant irritation
Kaolin	Professional judgement	No significant irritation
Polyisobutylene	Rabbit	No significant irritation
Isobutylene - isoprene polymer	Professional judgement	No significant irritation
Silicon dioxide	Rabbit	No significant irritation
Carbon black	Rabbit	No significant irritation
Titanium dioxide	Rabbit	No significant irritation
4,4'-Thiobis(6-Tert-Butyl-M-Cresol)	Rabbit	Moderate irritant
Lead	similar compounds	Mild irritant

Sensitization:

Skin Sensitisation

Name	Species	Value
Silicon dioxide	Human and animal	Not classified
Titanium 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
Silicon dioxide	In Vitro	Not mutagenic

Carbon black	In Vitro	Not mutagenic
Carbon black	In vivo	Some positive data exist, but the data are not sufficient for classification
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
Titanium dioxide	In Vitro	Not mutagenic
Titanium dioxide	In vivo	Not mutagenic
Lead	In vivo	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

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

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
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
Lead	Not specified.	Toxic to female reproduction	Human	LOAEL 10 ug/dl blood	
Lead	Not specified.	Toxic to male reproduction	Human	LOAEL 37 ug/dl blood	
Lead	Not specified.	Toxic to development	Human	NOAEL Not available	

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Lead	Ingestion	nervous system	May cause damage to organs	Human	LOAEL 90 ug/dl blood	poisoning and/or abuse
Lead	Ingestion	heart	Not classified	Human	NOAEL Not available	poisoning and/or abuse

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure

						Duration
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	
Silicon dioxide	Inhalation	respiratory system | silicosis	Not classified	Human	NOAEL Not available	occupational exposure
Carbon black	Inhalation	pneumoconiosis	Not classified	Human	NOAEL Not available	occupational exposure
Quartz	Inhalation	silicosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
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
Lead	Inhalation	kidney and/or bladder	May cause damage to organs though prolonged or repeated exposure	Human	LOAEL 60 ug/dl blood	occupational exposure
Lead	Inhalation	hematopoietic system	May cause damage to organs though prolonged or repeated exposure	Human	LOAEL 50 ug/dl blood	occupational exposure
Lead	Inhalation	nervous system	May cause damage to organs though prolonged or repeated exposure	Human	LOAEL 40 ug/dl blood	occupational exposure
Lead	Inhalation	gastrointestinal tract	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
Lead	Inhalation	heart | endocrine system | immune system | vascular system	Not classified	Human	NOAEL Not available	occupational exposure
Lead	Ingestion	bone, teeth, nails, and/or hair	May cause damage to organs though prolonged or repeated exposure	Rat	LOAEL 20 ug/dl blood	3 months
Lead	Ingestion	eyes	May cause damage to organs though prolonged or repeated exposure	Rat	LOAEL 0,5 mg/kg/day	20 days
Lead	Ingestion	hematopoietic system | kidney and/or bladder	May cause damage to organs though prolonged or repeated exposure	Human	LOAEL 40 ug/dl blood	environmental exposure
Lead	Ingestion	nervous system	May cause damage to organs though prolonged or repeated exposure	Human	LOAEL 11 ug/dl blood	environmental exposure
Lead	Ingestion	auditory system | heart | endocrine system | vascular system	Not classified	Human	NOAEL Not available	environmental exposure

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

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

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 Nbr	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	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Polyisobutylene	9003-27-4	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Aluminatesilicate	1327-36-2	Green algae	Endpoint not reached	72 hours	EC50	>100 mg/l
Aluminatesilicate	1327-36-2	Water flea	Estimated	48 hours	EC50	>100 mg/l
Aluminatesilicate	1327-36-2	Zebra Fish	Estimated	96 hours	LC50	>100 mg/l
Aluminatesilicate	1327-36-2	Green algae	Estimated	72 hours	EC10	41 mg/l
Aluminatesilicate	1327-36-2	Water flea	Estimated	21 days	NOEC	100 mg/l
Aluminum Distearate	300-92-5	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Isobutylene - isoprene polymer	9010-85-9	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Carbon black	1333-86-4	Green algae	Experimental	72 hours	No tox obs at lmt of water sol	>100 mg/l
Carbon black	1333-86-4	Zebra Fish	Experimental	96 hours	No tox obs at lmt of water sol	>100 mg/l
Carbon black	1333-86-4	Green algae	Experimental	72 hours	No tox obs at lmt of water sol	100 mg/l
Carbon black	1333-86-4	Activated sludge	Experimental	3 hours	NOEC	>800 mg/l
Silicon dioxide	7631-86-9	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
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
Titanium dioxide	13463-67-7	Activated sludge	Experimental	3 hours	NOEC	>=1 000 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
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
Lead	7439-92-1	Fathead minnow	Analogous Compound	96 hours	LC50	0,0408 mg/l
Lead	7439-92-1	Green algae	Analogous Compound	72 hours	ErC50	0,0205 mg/l
Lead	7439-92-1	Water flea	Analogous Compound	48 hours	EC50	0,026 mg/l
Lead	7439-92-1	N/A	Analogous Compound	30 days	EC10	0,0017 mg/l

Lead	7439-92-1	Green algae	Analogous Compound	72 hours	ErC10	0,0061 mg/l
Lead	7439-92-1	Rainbow trout	Analogous Compound	578 days	NOEC	0,003 mg/l
Lead	7439-92-1	Activated sludge	Analogous Compound	24 hours	EC50	9 mg/l

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Kaolin	1332-58-7	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Oxide Glass Chemicals	65997-17-3	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Polyisobutylene	9003-27-4	Estimated Biodegradation	28 days	CO2 evolution	2.8 %CO2 evolution/THCO2 evolution	Modeled
Aluminatesilicate	1327-36-2	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Aluminum Distearate	300-92-5	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Isobutylene - isoprene polymer	9010-85-9	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Carbon black	1333-86-4	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Silicon dioxide	7631-86-9	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Quartz	14808-60-7	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Titanium dioxide	13463-67-7	Data not availbl-insufficient	N/A	N/A	N/A	N/A
4,4'-Thiobis(6-Tert-Butyl-M-Cresol)	96-69-5	Experimental Biodegradation	14 days	BOD	1.9 %BOD/ThOD	OECD 301C - MITI test (I)
4,4'-Thiobis(6-Tert-Butyl-M-Cresol)	96-69-5	Experimental Biodegradation	35 days	CO2 evolution	1 %CO2 evolution/THCO2 evolution (does not pass 10-day window)	similar to OECD 301B
Lead	7439-92-1	Data not availbl-insufficient	N/A	N/A	N/A	N/A

12.3 : Bioaccumulative potential

Material	CAS Nbr	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
Polyisobutylene	9003-27-4	Estimated Bioconcentration		Bioaccumulation factor	8.8	
Aluminatesilicate	1327-36-2	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Aluminum Distearate	300-92-5	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Isobutylene - isoprene polymer	9010-85-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

Carbon black	1333-86-4	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Silicon dioxide	7631-86-9	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
Titanium dioxide	13463-67-7	Experimental BCF - Fish	42 days	Bioaccumulation factor	9.6	
4,4'-Thiobis(6-Tert-Butyl-M-Cresol)	96-69-5	Experimental BCF - Fish	42 days	Bioaccumulation factor	11	
4,4'-Thiobis(6-Tert-Butyl-M-Cresol)	96-69-5	Experimental Bioconcentration		Log Kow	5.24	OECD 117 log Kow HPLC method
Lead	7439-92-1	Experimental BCF - Other		Bioaccumulation factor	1322	

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
Product must only be disposed of by an authorized/permitted waste disposal contractor or incinerated in an industrial or commercial facility in the presence of a combustible material.

SECTION 14: Transport Information

Compliance is required to South African Transport Information Road Traffic Act & Regulations and Railroad regulations, IATA Standards for airfreight and Maritime standards for ocean freight.

SECTION 15: Regulatory information

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

Global inventory status
Contact 3M for more information. The components of this material are in compliance with the provisions of the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

SECTION 16: Other information

Revision information:
Label: GHS Classification information was modified.
Label: GHS Precautionary - General information was modified.
Label: GHS Precautionary - Response information was modified.
Section 2: Ingredient table information was modified.
Section 6: Accidental release personal information information was modified.

Section 8: Occupational exposure limit table information was modified.
Section 8: Skin protection - protective clothing information information was modified.
Section 9: Flammability (solid, gas) information information was deleted.
Section 09: Flammability information information was added.
Section 09: Kinematic Viscosity information information was added.
Section 09: Odor information was modified.
Section 09: Particle Characteristics N/A information was added.
Section 09: Vapor Density Value information was modified.
Section 09: Viscosity information was deleted.
Section 11: Acute Toxicity table information was modified.
Section 11: Carcinogenicity Table information was modified.
Section 11: Germ Cell Mutagenicity Table information was modified.
Section 11: Health Effects - Ingestion information information was modified.
Section 11: Health Effects - Skin information information was modified.
Section 11: Reproductive Toxicity Table information was modified.
Section 11: Serious Eye Damage/Irritation Table information was modified.
Section 11: Skin Corrosion/Irritation Table information was modified.
Section 11: Skin Sensitization Table information was modified.
Section 11: Target Organs - Repeated Table information was modified.
Section 11: Target Organs - Single Table information was modified.
Section 12: Component ecotoxicity information information was modified.
Section 12: Persistence and Degradability information information was modified.
Section 12:Bioccumulative potential information information was modified.

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 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.

3M South Africa SDSs are available at www.3m.co.za