



Safety Data Sheet

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Document group:	07-3626-4	Version number:	8.00
Issue Date:	22/03/2022	Supersedes date:	29/09/2019

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™ MSP Seam Sealer – White, PN 08369

Product Identification Numbers

60-4550-5013-2

1.2. Recommended use and restrictions on use

Recommended use

Seam Sealer

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

Carcinogenicity: Category 1A.

Reproductive Toxicity: Category 1.

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

Danger

Symbols

Health Hazard |

Pictograms



Hazard statements

H350 May cause cancer.
 H360 May damage fertility or the unborn child.

Precautionary statements

General:

P102 Keep out of reach of children.

Prevention:

P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P280F Wear respiratory protection.

Response:

P308 + P313 IF exposed or concerned: Get medical advice/attention.

Storage:

P405 Store locked up.

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

May be harmful if swallowed.
 Very toxic 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
Limestone	1317-65-3	15 - 40
Calcium Carbonate	471-34-1	10 - 30
Polyether	Trade Secret	10 - 30
Plasticizer	Trade Secret	7 - 13

Silyl Terminated Polyether	Trade Secret	5 - 10
Diisodecyl Phthalate	68515-49-1	1 - 5
Hydrotreated Heavy Naphtha (Petroleum)	64742-48-9	1 - 5
Stearic Acid	57-11-4	1 - 5
N-(3-(Trimethoxysilyl)propyl)ethylenediamine	1760-24-3	< 1
1-Methyl-2-Pyrrolidinone	872-50-4	0.1 - 1
Dibutyltin bis(acetylacetonate)	22673-19-4	< 1
Quartz	14808-60-7	< 0.5

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

No need for first aid is anticipated.

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

Carbon monoxide.
Carbon dioxide.

Condition

During combustion.
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

Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. 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. Do not handle until all safety precautions have been read and understood. Do not breathe 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. Use personal protective equipment (eg. gloves, respirators...) as required.

7.2. Conditions for safe storage including any incompatibilities

Store away from heat. Store away from acids.

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
CAS NO SEQ117921	1317-65-3	ACGIH	TWA(inhalable particulates):10 mg/m3	
CAS NO SEQ117922	1317-65-3	ACGIH	TWA(respirable particles):3 mg/m3	
Limestone	1317-65-3	Australia OELs	TWA(Inspirable dust)(8 hours):10 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:	
Tin, organic compounds	22673-19-4	ACGIH	TWA(as Sn):0.1 mg/m3;STEL(as Sn):0.2 mg/m3	A4: Not class. as human carcin, SKIN
Tin, organic compounds	22673-19-4	Australia OELs	TWA(as Sn)(8 hours):0.1 mg/m3;STEL(as Sn)(15 minutes):0.2 mg/m3	SKIN
CAS NO SEQ117921	471-34-1	ACGIH	TWA(inhalable particulates):10 mg/m3	
CAS NO SEQ117922	471-34-1	ACGIH	TWA(respirable particles):3 mg/m3	
Limestone	471-34-1	Australia OELs	TWA(Inspirable dust)(8 hours):10 mg/m3	
Stearates	57-11-4	ACGIH	TWA(respirable fraction):3	A4: Not class. as human

			mg/m ³ ;TWA(inhalable fraction):10 mg/m ³	carcin
Stearates	57-11-4	Australia OELs	TWA(Inspirable dust)(8 hours):10 mg/m ³	
1-Methyl-2-Pyrrolidinone	872-50-4	AIHA	TWA:40 mg/m ³ (10 ppm)	SKIN
1-Methyl-2-Pyrrolidinone	872-50-4	Australia OELs	TWA(8 hours): 103 mg/m ³ (25 ppm); STEL(15 minutes): 309 mg/m ³ (75 ppm)	SKIN

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

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

CMRG : Chemical Manufacturer's Recommended Guidelines

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

Sen: Sensitiser

Sk: Absorption through the skin may be a significant source of exposure.

8.2. Exposure controls

8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

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

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: Apron - polymer laminate

Select and use gloves according to AS/NZ 2161.

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapours and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

Select and use respirators according to AS/NZS 1715. Respirators should comply with AS/NZS 1716 performance specifications. For information about respirators, call 3M on 1800 024 464.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Solid.
Specific Physical Form:	Paste
Colour	White
Odour	Slight Solvent
Odour threshold	<i>No data available.</i>
pH	<i>Not applicable.</i>
Melting point/Freezing point	<i>Not applicable.</i>
Boiling point/Initial boiling point/Boiling range	No boiling point
Flash point	No flash point
Evaporation rate	<i>No data available.</i>
Flammability (solid, gas)	Not classified
Flammable Limits(LEL)	<i>No data available.</i>
Flammable Limits(UEL)	<i>No data available.</i>
Vapour pressure	<i>Not applicable.</i>
Vapor Density and/or Relative Vapor Density	<i>Not applicable.</i>
Density	1.68 g/cm ³
Relative density	1.68 [Ref Std: WATER=1]
Water solubility	Negligible
Solubility- non-water	<i>No data available.</i>
Partition coefficient: n-octanol/water	<i>No data available.</i>
Autoignition temperature	<i>No data available.</i>
Decomposition temperature	<i>No data available.</i>
Viscosity/Kinematic Viscosity	1,500 - 2,000 Pa-s [Test Method: Brookfield] [Details: CONDITIONS: Spindle #7, 2 rpm]
Volatile organic compounds (VOC)	100 g/l [Test Method: calculated SCAQMD rule 443.1]
Volatile organic compounds (VOC)	6 % weight [Test Method: calculated per CARB title 2]
Percent volatile	6 % weight
VOC less H₂O & exempt solvents	100 g/l [Test Method: calculated SCAQMD rule 443.1]
Average particle size	<i>No data available.</i>
Bulk density	<i>No data available.</i>
Molecular weight	<i>No data available.</i>
Softening point	<i>No data available.</i>

Nanoparticles

This material does not contain nanoparticles.

* The values noted with an asterisk (*) in the above table are representative values based on testing of raw materials and selected products. Additionally, a material's characteristics may change depending upon the process and conditions of use at a facility, including further changes in particle size, or mixture with other materials. In order to obtain specific data for the material, we recommend the user conduct characterization testing based on the use factors at the specific facility.

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

Heat.

Sparks and/or flames.

10.4. Possibility of hazardous reactions

Hazardous polymerisation will not occur.

10.5 Incompatible materials

Strong acids.

No data available.

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

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May cause additional health effects (see below).

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. May cause additional health effects (see below).

Eye contact

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

Ingestion

May be harmful if swallowed.

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

Additional Health Effects:

Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

Additional information:

This product contains a form of crystalline silica. Occupational exposure to inhaled crystalline silica has been associated with silicosis and lung cancer. No exposure to crystalline silica is expected during the normal handling and use of this product. Therefore, the health effects associated with crystalline silica are not expected during normal use of this product.

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 >2,000 - ≤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
Calcium Carbonate	Dermal	Rat	LD50 > 2,000 mg/kg
Calcium Carbonate	Inhalation-Dust/Mist (4 hours)	Rat	LC50 3 mg/l
Calcium Carbonate	Ingestion	Rat	LD50 6,450 mg/kg
Silyl Terminated Polyether	Dermal		LD50 estimated to be > 5,000 mg/kg
Silyl Terminated Polyether	Ingestion	Rat	LD50 > 5,000 mg/kg
Plasticizer	Dermal	Rabbit	LD50 > 5,000 mg/kg
Plasticizer	Ingestion	similar compounds	LD50 estimated to be 300 - 2,000 mg/kg
Stearic Acid	Dermal	Rabbit	LD50 > 2,000 mg/kg
Stearic Acid	Ingestion	Rat	LD50 > 5,000 mg/kg
Hydrotreated Heavy Naphtha (Petroleum)	Inhalation-Vapour	Professional judgement	LC50 estimated to be 20 - 50 mg/l
Hydrotreated Heavy Naphtha (Petroleum)	Dermal	Rabbit	LD50 > 5,000 mg/kg
Hydrotreated Heavy Naphtha (Petroleum)	Ingestion	Rat	LD50 > 5,000 mg/kg
Diisodecyl Phthalate	Dermal	Rabbit	LD50 > 3,160 mg/kg
Diisodecyl Phthalate	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 12.5 mg/l
Diisodecyl Phthalate	Ingestion	Rat	LD50 > 9,700 mg/kg
N-(3-(Trimethoxysilyl)propyl)ethylenediamine	Dermal	Rabbit	LD50 > 2,000 mg/kg
N-(3-(Trimethoxysilyl)propyl)ethylenediamine	Inhalation-Dust/Mist (4 hours)	Rat	LC50 >1.49, <2.44 mg/l
N-(3-(Trimethoxysilyl)propyl)ethylenediamine	Ingestion	Rat	LD50 1,897 mg/kg
1-Methyl-2-Pyrrolidinone	Dermal	Rabbit	LD50 4,000 mg/kg
1-Methyl-2-Pyrrolidinone	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.1 mg/l
1-Methyl-2-Pyrrolidinone	Ingestion	Rat	LD50 4,320 mg/kg
Quartz	Dermal		LD50 estimated to be > 5,000 mg/kg
Quartz	Ingestion		LD50 estimated to be > 5,000 mg/kg
Dibutyltin bis(acetylacetonate)	Dermal	Rat	LD50 > 2,000 mg/kg
Dibutyltin bis(acetylacetonate)	Ingestion	Rat	LD50 1,864 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Limestone	Rabbit	No significant irritation
Calcium Carbonate	Rabbit	No significant irritation
Stearic Acid	Rabbit	No significant irritation

Hydrotreated Heavy Naphtha (Petroleum)	Rabbit	Mild irritant
Diisodecyl Phthalate	Rabbit	Minimal irritation
N-(3-(Trimethoxysilyl)propyl)ethylenediamine	Rabbit	Mild irritant
1-Methyl-2-Pyrrolidinone	Rabbit	Minimal irritation
Quartz	Professional judgement	No significant irritation
Dibutyltin bis(acetylacetonate)	Rat	Corrosive

Serious Eye Damage/Irritation

Name	Species	Value
Limestone	Rabbit	No significant irritation
Calcium Carbonate	Rabbit	No significant irritation
Stearic Acid	Rabbit	No significant irritation
Hydrotreated Heavy Naphtha (Petroleum)	Rabbit	Mild irritant
Diisodecyl Phthalate	Rabbit	Mild irritant
N-(3-(Trimethoxysilyl)propyl)ethylenediamine	Rabbit	Corrosive
1-Methyl-2-Pyrrolidinone	Rabbit	Severe irritant
Dibutyltin bis(acetylacetonate)	In vitro data	Corrosive

Skin Sensitisation

Name	Species	Value
Hydrotreated Heavy Naphtha (Petroleum)	Guinea pig	Not classified
Diisodecyl Phthalate	Guinea pig	Not classified
N-(3-(Trimethoxysilyl)propyl)ethylenediamine	Multiple animal species	Sensitising
1-Methyl-2-Pyrrolidinone	Human and animal	Not classified
Dibutyltin bis(acetylacetonate)	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
Stearic Acid	In Vitro	Not mutagenic
Hydrotreated Heavy Naphtha (Petroleum)	In Vitro	Not mutagenic
Hydrotreated Heavy Naphtha (Petroleum)	In vivo	Not mutagenic
Diisodecyl Phthalate	In Vitro	Not mutagenic
Diisodecyl Phthalate	In vivo	Not mutagenic
1-Methyl-2-Pyrrolidinone	In vivo	Not mutagenic
1-Methyl-2-Pyrrolidinone	In Vitro	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
Dibutyltin bis(acetylacetonate)	In Vitro	Some positive data exist, but the data are not sufficient for classification
Dibutyltin bis(acetylacetonate)	In vivo	Mutagenic

Carcinogenicity

Name	Route	Species	Value
Stearic Acid	Ingestion	Rat	Not carcinogenic
Hydrotreated Heavy Naphtha (Petroleum)	Not specified.	Not available	Not carcinogenic
1-Methyl-2-Pyrrolidinone	Inhalation	Rat	Not carcinogenic
Quartz	Inhalation	Human and animal	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	prematuring & during gestation
Calcium Carbonate	Ingestion	Not classified for development	Rat	NOAEL 625 mg/kg/day	prematuring & during gestation
Hydrotreated Heavy Naphtha (Petroleum)	Not specified.	Not classified for female reproduction	Rat	NOAEL Not available	prematuring & during gestation
Hydrotreated Heavy Naphtha (Petroleum)	Not specified.	Not classified for male reproduction	Rat	NOAEL Not available	28 days
Hydrotreated Heavy Naphtha (Petroleum)	Not specified.	Not classified for development	Rat	NOAEL Not available	during gestation
Diisodecyl Phthalate	Ingestion	Not classified for female reproduction	Rat	NOAEL 927 mg/kg/day	2 generation
Diisodecyl Phthalate	Ingestion	Not classified for male reproduction	Rat	NOAEL 929 mg/kg/day	2 generation
Diisodecyl Phthalate	Ingestion	Toxic to development	Rat	NOAEL 38 mg/kg/day	2 generation
1-Methyl-2-Pyrrolidinone	Inhalation	Not classified for development	Rat	LOAEL 0.68 mg/l	during gestation
1-Methyl-2-Pyrrolidinone	Ingestion	Toxic to female reproduction	Rat	LOAEL 50 mg/kg/day	2 generation
1-Methyl-2-Pyrrolidinone	Ingestion	Toxic to male reproduction	Rat	LOAEL 50 mg/kg/day	2 generation
1-Methyl-2-Pyrrolidinone	Dermal	Toxic to development	Rat	NOAEL 237 mg/kg/day	during organogenesis
1-Methyl-2-Pyrrolidinone	Ingestion	Toxic to development	Rat	NOAEL 160 mg/kg/day	2 generation
Dibutyltin bis(acetylacetonate)	Ingestion	Toxic to female reproduction	Rat	NOAEL 2 mg/kg/day	prematuring into lactation
Dibutyltin bis(acetylacetonate)	Ingestion	Toxic to development	Rat	NOAEL 2.5 mg/kg/day	during gestation

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
Calcium Carbonate	Inhalation	respiratory system	Not classified	Rat	NOAEL 0.812 mg/l	90 minutes
Stearic Acid	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
1-Methyl-2-Pyrrolidinone	Inhalation	respiratory irritation	Not classified	Human	NOAEL 0.05 mg/l	8 hours
Dibutyltin bis(acetylacetonate)	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Dibutyltin bis(acetylacetonate)	Ingestion	immune system	Causes damage to organs	Rat	LOAEL 5 mg/kg	

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Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Limestone	Inhalation	respiratory system	Not classified	Human	NOAEL Not available	occupational exposure
Calcium Carbonate	Inhalation	respiratory system	Not classified	Human	NOAEL Not available	occupational exposure
Stearic Acid	Ingestion	blood	Not classified	Rat	NOAEL Not available	6 weeks
Diisodecyl Phthalate	Inhalation	respiratory system hematopoietic system liver	Not classified	Rat	NOAEL 0.5 mg/l	2 weeks
Diisodecyl Phthalate	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 0.5 mg/l	2 generation
Diisodecyl Phthalate	Ingestion	endocrine system	Not classified	Rat	NOAEL 686 mg/kg/day	90 days
Diisodecyl Phthalate	Ingestion	liver kidney and/or bladder heart	Not classified	Rat	NOAEL 500 mg/kg/day	90 days
Diisodecyl Phthalate	Ingestion	hematopoietic system	Not classified	Dog	NOAEL 320 mg/kg/day	90 days
N-(3-(Trimethoxysilyl)propyl)ethylenediamine	Inhalation	respiratory system	May cause damage to organs through prolonged or repeated exposure	Rat	NOAEL 0.015 mg/l	90 days
1-Methyl-2-Pyrrolidinone	Inhalation	bone marrow immune system respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 0.5 mg/l	4 weeks
1-Methyl-2-Pyrrolidinone	Ingestion	endocrine system	Not classified	Rat	NOAEL 250 mg/kg/day	90 days
1-Methyl-2-Pyrrolidinone	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 2,060 mg/kg/day	4 weeks
1-Methyl-2-Pyrrolidinone	Ingestion	nervous system	Not classified	Rat	NOAEL 1,057 mg/kg/day	90 days
1-Methyl-2-Pyrrolidinone	Ingestion	hematopoietic system	Not classified	Mouse	NOAEL 300 mg/kg/day	90 days
1-Methyl-2-Pyrrolidinone	Ingestion	liver	Not classified	Mouse	NOAEL 150 mg/kg/day	3 months
Quartz	Inhalation	silicosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
Dibutyltin bis(acetylacetonate)	Ingestion	liver	Causes damage to organs through prolonged or repeated exposure	Rat	NOAEL 2 mg/kg/day	2 weeks
Dibutyltin bis(acetylacetonate)	Ingestion	immune system	Causes damage to organs through prolonged or repeated exposure	Rat	NOAEL 0.3 mg/kg/day	28 days

Aspiration Hazard

Name	Value
Hydrotreated Heavy Naphtha (Petroleum)	Aspiration hazard

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 1: Very toxic 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
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	EC10	>100 mg/l
Calcium Carbonate	471-34-1	Green algae	Experimental	72 hours	EC50	>100 mg/l
Calcium Carbonate	471-34-1	Rainbow trout	Experimental	96 hours	LC50	>100 mg/l
Calcium Carbonate	471-34-1	Water flea	Experimental	48 hours	EC50	>100 mg/l
Calcium Carbonate	471-34-1	Green algae	Experimental	72 hours	EC10	100 mg/l
Polyether	Trade Secret		Data not available or insufficient for classification			NA
Plasticizer	Trade Secret	Green Algae	Analogous Compound	72 hours	ErC50	78 mg/l
Plasticizer	Trade Secret	Rainbow trout	Analogous Compound	96 hours	LC50	80 mg/l
Plasticizer	Trade Secret	Water flea	Analogous Compound	48 hours	EC50	>1,000 mg/l
Plasticizer	Trade Secret	Green Algae	Analogous Compound	72 hours	ErC10	13 mg/l
Silyl Terminated Polyether	Trade Secret		Data not available or insufficient for classification			N/A

Diisodecyl Phthalate	68515-49-1	Activated sludge	Experimental	30 minutes	EC50	>83.3 mg/l
Diisodecyl Phthalate	68515-49-1	Green algae	Experimental	96 hours	EC50	>100 mg/l
Diisodecyl Phthalate	68515-49-1	Rainbow trout	Experimental	96 hours	LC50	>100 mg/l
Diisodecyl Phthalate	68515-49-1	Water flea	Experimental	48 hours	EC50	>100 mg/l
Diisodecyl Phthalate	68515-49-1	Green algae	Experimental	96 hours	NOEC	100 mg/l
Diisodecyl Phthalate	68515-49-1	Water flea	Experimental	21 days	NOEC	100 mg/l
Hydrotreated Heavy Naphtha (Petroleum)	64742-48-9	Green Algae	Estimated	72 hours	EL50	>1,000 mg/l
Hydrotreated Heavy Naphtha (Petroleum)	64742-48-9	Rainbow trout	Estimated	96 hours	LL50	>1,000 mg/l
Hydrotreated Heavy Naphtha (Petroleum)	64742-48-9	Water flea	Estimated	48 hours	EL50	>1,000 mg/l
Hydrotreated Heavy Naphtha (Petroleum)	64742-48-9	Green Algae	Estimated	72 hours	NOEL	1,000 mg/l
Hydrotreated Heavy Naphtha (Petroleum)	64742-48-9	Water flea	Estimated	21 days	NOEL	>1 mg/l
Stearic Acid	57-11-4	Green algae	Estimated	72 hours	EC50	>100 mg/l
Stearic Acid	57-11-4	Water flea	Estimated	48 hours	EC50	>100 mg/l
Stearic Acid	57-11-4	Bacteria	Experimental	18 hours	EC10	883 mg/l
Stearic Acid	57-11-4	Green algae	Estimated	72 hours	NOEC	100 mg/l
Stearic Acid	57-11-4	Water flea	Estimated	21 days	NOEC	100 mg/l
N-(3-(Trimethoxysilyl)propyl)ethyl enediamine	1760-24-3	Bacteria	Experimental	16 hours	EC50	67 mg/l
N-(3-(Trimethoxysilyl)propyl)ethyl enediamine	1760-24-3	Fathead minnow	Experimental	96 hours	LC50	168 mg/l
N-(3-(Trimethoxysilyl)propyl)ethyl enediamine	1760-24-3	Green Algae	Experimental	72 hours	EC50	8.8 mg/l
N-(3-(Trimethoxysilyl)propyl)ethyl enediamine	1760-24-3	Water flea	Experimental	48 hours	EC50	81 mg/l
N-(3-(Trimethoxysilyl)propyl)ethyl enediamine	1760-24-3	Green Algae	Experimental	72 hours	NOEC	3.1 mg/l
1-Methyl-2-Pyrrolidinone	872-50-4	Grass Shrimp	Experimental	96 hours	EC50	1,107 mg/l

1-Methyl-2-Pyrrolidinone	872-50-4	Green algae	Experimental	72 hours	EC50	600.5 mg/l
1-Methyl-2-Pyrrolidinone	872-50-4	Rainbow trout	Experimental	96 hours	LC50	>500 mg/l
1-Methyl-2-Pyrrolidinone	872-50-4	Water flea	Experimental	48 hours	EC50	4,897 mg/l
1-Methyl-2-Pyrrolidinone	872-50-4	Green algae	Experimental	72 hours	EC10	92.6 mg/l
1-Methyl-2-Pyrrolidinone	872-50-4	Water flea	Experimental	21 days	NOEC	12.5 mg/l
Dibutyltin bis(acetylacetonate)	22673-19-4	Algae other	Estimated	96 hours	EC50	0.043 mg/l
Dibutyltin bis(acetylacetonate)	22673-19-4	Activated sludge	Experimental	3 hours	EC50	190 mg/l
Dibutyltin bis(acetylacetonate)	22673-19-4	Water flea	Experimental	48 hours	EC50	0.004 mg/l
Dibutyltin bis(acetylacetonate)	22673-19-4	Medaka	Estimated	28 days	NOEC	2.6 mg/l
Dibutyltin bis(acetylacetonate)	22673-19-4	Water flea	Estimated	21 days	NOEC	0.021 mg/l
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

12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Limestone	1317-65-3	Data not available-insufficient	N/A	N/A	N/A	N/A
Calcium Carbonate	471-34-1	Data not available-insufficient	N/A	N/A	N/A	N/A
Polyether	Trade Secret	Data not available-insufficient	N/A	N/A	N/A	N/A
Plasticizer	Trade Secret	Analogous Compound Aquatic Inherent Biodegrad.	35 days	CO2 evolution	3 %CO2 evolution/THC O2 evolution	
Plasticizer	Trade Secret	Modeled Biodegradation	28 days	BOD	19 % BOD/ThOD	Catalogic™
Plasticizer	Trade Secret	Analogous Compound Biodegradation	21 days	Dissolv. Organic Carbon Deplet	50.6 %removal of DOC	similar to 835.3240
Silyl Terminated	Trade Secret	Data not available-	N/A	N/A	N/A	N/A

Polyether		insufficient				
Diisodecyl Phthalate	68515-49-1	Experimental Biodegradation	28 days	BOD	74 % BOD/ThOD	OECD 301F - Manometric respirometry
Hydrotreated Heavy Naphtha (Petroleum)	64742-48-9	Estimated Biodegradation	28 days	BOD	31.3 % BOD/ThOD	OECD 301F - Manometric respirometry
Stearic Acid	57-11-4	Experimental Biodegradation	28 days	CO2 evolution	89 % weight	OECD 301B - Modified sturm or CO2
N-(3-(Trimethoxysilyl)propyl)ethyl enediamine	1760-24-3	Experimental Hydrolysis		Hydrolytic half-life	1.5 minutes (t 1/2)	Non-standard method
N-(3-(Trimethoxysilyl)propyl)ethyl enediamine	1760-24-3	Experimental Biodegradation	28 days	Dissolv. Organic Carbon Deplet	39 % weight	Non-standard method
1-Methyl-2-Pyrrolidinone	872-50-4	Experimental Biodegradation	28 days	BOD	73 % BOD/ThOD	OECD 301C - MITI test (I)
Dibutyltin bis(acetylacetonate)	22673-19-4	Estimated Biodegradation	39 days	BOD	23 % BOD/ThOD	OECD 301F - Manometric respirometry
Quartz	14808-60-7	Data not available-insufficient	N/A	N/A	N/A	N/A

12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Limestone	1317-65-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Calcium Carbonate	471-34-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Polyether	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Plasticizer	Trade Secret	Analogous Compound Bioconcentration		Log Kow	1.8	
Silyl Terminated Polyether	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Diisodecyl Phthalate	68515-49-1	Estimated BCF - Carp	56 days	Bioaccumulation factor	<14.4	OECD 305E - Bioaccumulation flow-through fish test
Hydrotreated Heavy Naphtha (Petroleum)	64742-48-9	Data not available or insufficient for	N/A	N/A	N/A	N/A

		classification				
Stearic Acid	57-11-4	Estimated BCF - Other	28 days	Bioaccumulation factor	255	OECD 305E - Bioaccumulation flow-through fish test
N-(3-(Trimethoxysilyl)propyl)ethylenediamine	1760-24-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
1-Methyl-2-Pyrrolidinone	872-50-4	Experimental Bioconcentration		Log Kow	-0.46	Non-standard method
Dibutyltin bis(acetylacetonate)	22673-19-4	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

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 completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, 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.: 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.

Poison Schedule: This product is intended for Industrial or Professional Use only and therefore is not packaged and labelled in accordance with the requirements of the Standard for the Uniform Scheduling of Medicines and Poisons.

SECTION 16: Other information

Revision information:

Complete document review.

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Safety Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

Greenguard ® is a United States based program. The 'Low VOC' reference related to United States Federal and State regulations exemptions for some solvents.

3M Australia SDSs are available at www.3m.com.au