



## Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the SS586 Specification for Hazard Communication for Hazardous Chemicals and Dangerous Goods.

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### SECTION 1: Identification

#### 1.1. Product identifier

3M™ MSP Sprayable Seam Sealer, PN 08374, Gray

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Automotive., Automotive Seam Sealer

#### 1.3. Supplier's details

**Address:** 3M Technologies (S) Pte Ltd,10 Ang Mo Kio Street 65, Singapore 569059  
**Telephone:** +65 6450 8888  
**Website:** www.3m.com.sg

#### 1.4. Emergency telephone number

+65 6591 6601 (8.15am - 5.00pm, Monday - Friday)

### SECTION 2: Hazard identification

#### 2.1. Classification of the substance or mixture

Serious Eye Damage/Irritation: Category 2A

Skin Sensitizer: Category 1.

Reproductive Toxicity: Category 1B.

Carcinogenicity: Category 1A.

Acute Aquatic Toxicity: Category 1.

Chronic Aquatic Toxicity: Category 2.

#### 2.2. Label elements

##### SIGNAL WORD

DANGER!

##### Symbols

Exclamation mark | Health Hazard | Environment |

##### Pictograms



**HAZARD STATEMENTS**

H319 Causes serious eye irritation.  
 H317 May cause an allergic skin reaction.  
 H360 May damage fertility or the unborn child.  
 H350 May cause cancer.

H400 Very toxic to aquatic life.  
 H411 Toxic to aquatic life with long lasting effects.

**PRECAUTIONARY STATEMENTS**

**Prevention:**

P201 Obtain special instructions before use.  
 P280E Wear protective gloves.  
 P273 Avoid release to the environment.

**Response:**

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
 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 hazards**

Persons previously sensitised to amines may develop a cross-sensitisation reaction to certain other amines.

**SECTION 3: Composition/information on ingredients**

This material is a mixture.

Ingredient	CAS Nbr	% by Wt
Limestone	1317-65-3	15 - 40
Inorganic Filler 2	Trade Secret	10 - 30
Silyl Terminated Polyether	Trade Secret	10 - 30
Non-Phthalate Plasticizer	Trade Secret	5 - 10
Calcium Carbonate	471-34-1	3 - 7
Dibutyl Phthalate	84-74-2	1 - 5
N-Ethyl-P-Toluenesulfonamide	80-39-7	1 - 5
Inorganic Filler 1	Trade Secret	1 - 5
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	64742-48-9	1 - 5
Reaction mass of 12-hydroxy-N-[2-[(1-oxodecyl)amino]alkyl]octadecanamide, 12-	484-050-2	1 - 5

hydroxy-N-[2-[(1-oxooctyl)amino]alkyl]octadecanamide and N,N'-1,2-alkandiy[bis[12-hydroxyoctadecanamide]		
Stearic Acid	57-11-4	0.1 - 3
N-Me 2-Pyrrolidone	872-50-4	0.5 - 1.5
N-(3-(Trimethoxysilyl)propyl)ethylenediamine	1760-24-3	0.5 - 1.5
Bis(2,2,6,6-Tetramethyl-4-piperidiny) sebacate	52829-07-9	< 0.5
Dibutyltin Bis(Acetylacetonate)	22673-19-4	< 0.5
Quartz	14808-60-7	< 0.5
1,2-Ethanediamine, N,N'-Bis[3-(trimethoxysilyl)propyl]-	68845-16-9	< 0.3

## 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

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. 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). Target organ effects following prolonged or repeated exposure. See Section 11 for additional details.

### 4.3. Indication of any immediate medical attention and special treatment required

Not applicable

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

Use a fire fighting agent suitable for the surrounding fire.

### 5.2. Special hazards arising from the substance or mixture

None inherent in this product.

### Hazardous Decomposition or By-Products

#### Substance

Carbon monoxide.  
Carbon dioxide.

#### Condition

During combustion.  
During combustion.

### 5.3. Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Evacuate area. Ventilate the area with fresh air. 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. For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water.

**6.3. Methods and material for containment and cleaning up**

Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. 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 with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. 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. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) 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. Store away from strong bases. Store away from oxidising agents.

**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
Limestone	1317-65-3	Singapore PELs	TWA(8 hours):10 mg/m <sup>3</sup>	
Quartz	14808-60-7	ACGIH	TWA(respirable fraction):0.025 mg/m <sup>3</sup>	A2: Suspected human carcin.
Quartz	14808-60-7	Singapore PELs	TWA(as respirable dust)(8 hours):0.1 mg/m <sup>3</sup>	
Dibutyl Phthalate	84-74-2	ACGIH	TWA:5 mg/m <sup>3</sup>	
Dibutyl Phthalate	84-74-2	Singapore PELs	TWA(8 hours):5 mg/m <sup>3</sup>	
N-Me 2-Pyrrolidone	872-50-4	AIHA	TWA:60 mg/m <sup>3</sup> (15 ppm);STEL(15 minutes):120 mg/m <sup>3</sup> (30 ppm)	SKIN

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

Singapore PELs : Singapore. Workplace Safety and Health (Permissible Exposure Levels of Toxic Substances) Order

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit  
CEIL: Ceiling

## 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

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Full face shield.

Indirect vented goggles.

#### 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 Apron - polymer laminate

#### 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.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Physical state</b>	Liquid.
<b>Specific Physical Form:</b>	Paste
<b>Color</b>	Gray
<b>Odor</b>	Low Odor
<b>Odour threshold</b>	<i>No data available.</i>
<b>pH</b>	<i>Not applicable.</i>
<b>Melting point/Freezing point</b>	<i>Not applicable.</i>
<b>Boiling point/Initial boiling point/Boiling range</b>	<i>Not applicable.</i>
<b>Flash point</b>	No flash point
<b>Evaporation rate</b>	Nil
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Flammable Limits(LEL)</b>	<i>No data available.</i>

<b>Flammable Limits(UEL)</b>	<i>No data available.</i>
<b>Vapour pressure</b>	<i>Not applicable.</i>
<b>Vapor Density and/or Relative Vapor Density</b>	<i>Not applicable.</i>
<b>Density</b>	1.4 - 1.6 g/cm <sup>3</sup>
<b>Relative density</b>	1.4 - 1.6 [ <i>Ref Std: WATER=1</i> ]
<b>Water solubility</b>	Negligible
<b>Solubility- non-water</b>	<i>No data available.</i>
<b>Partition coefficient: n-octanol/water</b>	<i>No data available.</i>
<b>Autoignition temperature</b>	<i>No data available.</i>
<b>Decomposition temperature</b>	<i>No data available.</i>
<b>Viscosity/Kinematic Viscosity</b>	140,000 mPa-s [ <i>Test Method: Brookfield</i> ] [ <i>Details: CONDITIONS: Spindle #7, 20 rpm</i> ]
<b>Volatile organic compounds (VOC)</b>	4.5 % weight [ <i>Test Method: calculated per CARB title 2</i> ]
<b>Volatile organic compounds (VOC)</b>	119 g/l [ <i>Test Method: calculated SCAQMD rule 443.1</i> ]
<b>Percent volatile</b>	8 % weight
<b>VOC less H<sub>2</sub>O &amp; exempt solvents</b>	119 g/l [ <i>Test Method: calculated SCAQMD rule 443.1</i> ]

## 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 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

### 10.4 Conditions to avoid

Heat.

Sparks and/or flames.

### 10.5 Incompatible materials

Strong acids.

Strong oxidising agents.

Strong bases.

### 10.6 Hazardous decomposition products

#### Substance

None known.

#### Condition

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**

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**

May be harmful by eye contact. Severe eye irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

#### **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:**

#### **Prolonged or repeated exposure may cause target organ effects:**

Respiratory effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish coloured skin (cyanosis), sputum production, changes in lung function tests, and respiratory failure.

#### **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:**

Persons previously sensitised to amines may develop a cross-sensitisation reaction to certain other amines.

#### **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**

<b>Name</b>	<b>Route</b>	<b>Species</b>	<b>Value</b>
Overall product	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Inhalation-Dust/Mist(4 hr)		No data available; calculated ATE >12.5 mg/l
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
Silyl Terminated Polyether	Dermal		LD50 estimated to be > 5,000 mg/kg
Silyl Terminated Polyether	Ingestion	Rat	LD50 > 5,000 mg/kg
Inorganic Filler 2	Dermal		LD50 estimated to be > 5,000 mg/kg
Inorganic Filler 2	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg

**3M™ MSP Sprayable Seam Sealer, PN 08374, Gray**

Non-Phthalate Plasticizer	Dermal	Rabbit	LD50 > 5,000 mg/kg
Non-Phthalate Plasticizer	Ingestion	similar compounds	LD50 estimated to be 300 - 2,000 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
N-Ethyl-P-Toluenesulfonamide	Dermal	Rabbit	LD50 > 5,000 mg/kg
N-Ethyl-P-Toluenesulfonamide	Ingestion	similar compounds	LD50 estimated to be 300 - 2,000 mg/kg
Dibutyl Phthalate	Dermal	Rabbit	LD50 > 20,000 mg/kg
Dibutyl Phthalate	Inhalation-Dust/Mist (4 hours)	Rat	LC50 15.7 mg/l
Dibutyl Phthalate	Ingestion	Rat	LD50 6,300 mg/kg
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	Inhalation-Vapor	Professional judgement	LC50 estimated to be 20 - 50 mg/l
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	Dermal	Rabbit	LD50 > 5,000 mg/kg
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	Ingestion	Rat	LD50 > 5,000 mg/kg
Stearic Acid	Dermal	Rabbit	LD50 > 2,000 mg/kg
Stearic Acid	Ingestion	Rat	LD50 > 5,000 mg/kg
Reaction mass of 12-hydroxy-N-[2-[(1-oxodecyl)amino]alkyl]octadecanamide, 12-hydroxy-N-[2-[(1-oxooctyl)amino]alkyl]octadecanamide and N,N'-1,2-alkandylbis[12-hydroxyoctadecanamide]	Dermal	Rat	LD50 > 2,000
Reaction mass of 12-hydroxy-N-[2-[(1-oxodecyl)amino]alkyl]octadecanamide, 12-hydroxy-N-[2-[(1-oxooctyl)amino]alkyl]octadecanamide and N,N'-1,2-alkandylbis[12-hydroxyoctadecanamide]	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 6.3
Reaction mass of 12-hydroxy-N-[2-[(1-oxodecyl)amino]alkyl]octadecanamide, 12-hydroxy-N-[2-[(1-oxooctyl)amino]alkyl]octadecanamide and N,N'-1,2-alkandylbis[12-hydroxyoctadecanamide]	Ingestion	Rat	LD50 > 2,000
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
N-Me 2-Pyrrolidone	Dermal	Rabbit	LD50 4,000 mg/kg
N-Me 2-Pyrrolidone	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.1 mg/l
N-Me 2-Pyrrolidone	Ingestion	Rat	LD50 4,320 mg/kg
Dibutyltin Bis(Acetylacetonate)	Dermal	Rat	LD50 > 2,000 mg/kg
Dibutyltin Bis(Acetylacetonate)	Ingestion	Rat	LD50 1,864 mg/kg
Quartz	Dermal		LD50 estimated to be > 5,000 mg/kg
Quartz	Ingestion		LD50 estimated to be > 5,000 mg/kg
Bis(2,2,6,6-Tetramethyl-4-piperidiny)l sebacate	Dermal	Rat	LD50 > 3,170 mg/kg
Bis(2,2,6,6-Tetramethyl-4-piperidiny)l sebacate	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.5 mg/l
Bis(2,2,6,6-Tetramethyl-4-piperidiny)l sebacate	Ingestion	Rat	LD50 3,700 mg/kg
1,2-Ethanediamine, N,N'-Bis[3-(trimethoxysilyl)propyl]-	Dermal	Rabbit	LD50 > 2,000 mg/kg
1,2-Ethanediamine, N,N'-Bis[3-(trimethoxysilyl)propyl]-	Inhalation-Dust/Mist (4 hours)	Rat	LC50 >1.49, <2.44 mg/L mg/l
1,2-Ethanediamine, N,N'-Bis[3-(trimethoxysilyl)propyl]-	Ingestion	Rat	LD50 1,897 mg/kg

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

Name	Species	Value
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Limestone	Rabbit	No significant irritation
Inorganic Filler 2	Rabbit	No significant irritation
Calcium Carbonate	Rabbit	No significant irritation
Dibutyl Phthalate	Rabbit	No significant irritation
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	Rabbit	Mild irritant
Stearic Acid	Rabbit	No significant irritation
Reaction mass of 12-hydroxy-N-[2-[(1-oxodecyl)amino]alkyl]octadecanamide, 12-hydroxy-N-[2-[(1-oxooctyl)amino]alkyl]octadecanamide and N,N'-1,2-alkandiylbis[12-hydroxyoctadecanamide]	Rabbit	No significant irritation
N-(3-(Trimethoxysilyl)propyl)ethylenediamine	Rabbit	Mild irritant
N-Me 2-Pyrrolidone	Rabbit	Minimal irritation
Dibutyltin Bis(Acetylacetonate)	Rat	Corrosive
Quartz	Professional judgement	No significant irritation
Bis(2,2,6,6-Tetramethyl-4-piperidiny)l sebacate	Rabbit	No significant irritation
1,2-Ethanediamine, N,N'-Bis[3-(trimethoxysilyl)propyl]-	Rabbit	Mild irritant

### Serious Eye Damage/Irritation

Name	Species	Value
Limestone	Rabbit	No significant irritation
Inorganic Filler 2	Rabbit	Mild irritant
Calcium Carbonate	Rabbit	No significant irritation
Dibutyl Phthalate	Rabbit	Mild irritant
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	Rabbit	Mild irritant
Stearic Acid	Rabbit	No significant irritation
Reaction mass of 12-hydroxy-N-[2-[(1-oxodecyl)amino]alkyl]octadecanamide, 12-hydroxy-N-[2-[(1-oxooctyl)amino]alkyl]octadecanamide and N,N'-1,2-alkandiylbis[12-hydroxyoctadecanamide]	Rabbit	Mild irritant
N-(3-(Trimethoxysilyl)propyl)ethylenediamine	Rabbit	Corrosive
N-Me 2-Pyrrolidone	Rabbit	Severe irritant
Dibutyltin Bis(Acetylacetonate)	In vitro data	Corrosive
Bis(2,2,6,6-Tetramethyl-4-piperidiny)l sebacate	Rabbit	Corrosive
1,2-Ethanediamine, N,N'-Bis[3-(trimethoxysilyl)propyl]-	Rabbit	Corrosive

### Sensitization:

#### Skin Sensitisation

Name	Species	Value
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	Guinea pig	Not classified
Reaction mass of 12-hydroxy-N-[2-[(1-oxodecyl)amino]alkyl]octadecanamide, 12-hydroxy-N-[2-[(1-oxooctyl)amino]alkyl]octadecanamide and N,N'-1,2-alkandiylbis[12-hydroxyoctadecanamide]	Mouse	Not classified
N-(3-(Trimethoxysilyl)propyl)ethylenediamine	Multiple animal species	Sensitising
N-Me 2-Pyrrolidone	Human and animal	Not classified
Dibutyltin Bis(Acetylacetonate)	Guinea pig	Sensitising
Bis(2,2,6,6-Tetramethyl-4-piperidiny)l sebacate	Guinea pig	Not classified
1,2-Ethanediamine, N,N'-Bis[3-(trimethoxysilyl)propyl]-	Multiple animal species	Sensitising

#### Photosensitisation

Name	Species	Value
Bis(2,2,6,6-Tetramethyl-4-piperidinyl) sebacate	Guinea pig	Not sensitizing

### Respiratory Sensitisation

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

### Germ Cell Mutagenicity

Name	Route	Value
Inorganic Filler 2	In Vitro	Some positive data exist, but the data are not sufficient for classification
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	In Vitro	Not mutagenic
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	In vivo	Not mutagenic
Stearic Acid	In Vitro	Not mutagenic
Reaction mass of 12-hydroxy-N-[2-[(1-oxodecyl)amino]alkyl]octadecanamide, 12-hydroxy-N-[2-[(1-oxooctyl)amino]alkyl]octadecanamide and N,N'-1,2-alkandylbis[12-hydroxyoctadecanamide]	In Vitro	Not mutagenic
N-(3-(Trimethoxysilyl)propyl)ethylenediamine	In Vitro	Not mutagenic
N-(3-(Trimethoxysilyl)propyl)ethylenediamine	In vivo	Not mutagenic
N-Me 2-Pyrrolidone	In vivo	Not mutagenic
N-Me 2-Pyrrolidone	In Vitro	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
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
Bis(2,2,6,6-Tetramethyl-4-piperidinyl) sebacate	In Vitro	Not mutagenic
1,2-Ethanediamine, N,N'-Bis[3-(trimethoxysilyl)propyl]-	In Vitro	Not mutagenic

### Carcinogenicity

Name	Route	Species	Value
Inorganic Filler 2	Inhalation	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	Not specified.	Not available	Not carcinogenic
Stearic Acid	Ingestion	Rat	Not carcinogenic
N-Me 2-Pyrrolidone	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
Dibutyl Phthalate	Ingestion	Toxic to female reproduction	Rat	NOAEL Not available	
Dibutyl Phthalate	Ingestion	Toxic to male reproduction	Rat	NOAEL Not available	
Dibutyl Phthalate	Ingestion	Toxic to development	Rat	NOAEL 50 mg/kg/day	during gestation

Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	Not specified.	Not classified for female reproduction	Rat	NOAEL Not available	premating & during gestation
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	Not specified.	Not classified for male reproduction	Rat	NOAEL Not available	28 days
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	Not specified.	Not classified for development	Rat	NOAEL Not available	during gestation
Reaction mass of 12-hydroxy-N-[2-[(1-oxodecyl)amino]alkyl]octadecanamide, 12-hydroxy-N-[2-[(1-oxooctyl)amino]alkyl]octadecanamide and N,N'-1,2-alkandylbis[12-hydroxyoctadecanamide]	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
Reaction mass of 12-hydroxy-N-[2-[(1-oxodecyl)amino]alkyl]octadecanamide, 12-hydroxy-N-[2-[(1-oxooctyl)amino]alkyl]octadecanamide and N,N'-1,2-alkandylbis[12-hydroxyoctadecanamide]	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	28 days
Reaction mass of 12-hydroxy-N-[2-[(1-oxodecyl)amino]alkyl]octadecanamide, 12-hydroxy-N-[2-[(1-oxooctyl)amino]alkyl]octadecanamide and N,N'-1,2-alkandylbis[12-hydroxyoctadecanamide]	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
N-(3-(Trimethoxysilyl)propyl)ethylenediamine	Ingestion	Not classified for female reproduction	Rat	NOAEL 500 mg/kg/day	premating into lactation
N-(3-(Trimethoxysilyl)propyl)ethylenediamine	Ingestion	Not classified for male reproduction	Rat	NOAEL 500 mg/kg/day	28 days
N-(3-(Trimethoxysilyl)propyl)ethylenediamine	Ingestion	Not classified for development	Rat	NOAEL 750 mg/kg/day	during gestation
N-Me 2-Pyrrolidone	Inhalation	Not classified for development	Rat	LOAEL 0.68 mg/l	during gestation
N-Me 2-Pyrrolidone	Ingestion	Toxic to female reproduction	Rat	LOAEL 50 mg/kg/day	2 generation
N-Me 2-Pyrrolidone	Ingestion	Toxic to male reproduction	Rat	LOAEL 50 mg/kg/day	2 generation
N-Me 2-Pyrrolidone	Dermal	Toxic to development	Rat	NOAEL 237 mg/kg/day	during organogenesis
N-Me 2-Pyrrolidone	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	premating into lactation
Dibutyltin Bis(Acetylacetonate)	Ingestion	Toxic to development	Rat	NOAEL 2.5 mg/kg/day	during gestation
Bis(2,2,6,6-Tetramethyl-4-piperidinyl) sebacate	Ingestion	Not classified for male reproduction	Rat	NOAEL 430 mg/kg/day	2 generation
Bis(2,2,6,6-Tetramethyl-4-piperidinyl) sebacate	Ingestion	Not classified for development	Rat	NOAEL 130 mg/kg/day	2 generation
Bis(2,2,6,6-Tetramethyl-4-piperidinyl) sebacate	Ingestion	Toxic to female reproduction	Rat	NOAEL 130 mg/kg/day	2 generation

**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	
N-(3-(Trimethoxysilyl)propyl)ethylenediamine	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	

N-Me 2-Pyrrolidone	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	
Bis(2,2,6,6-Tetramethyl-4-piperidinyl) sebacate	Dermal	photoirritation	Not classified	Mouse	NOAEL not available	
Bis(2,2,6,6-Tetramethyl-4-piperidinyl) sebacate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL not available	
1,2-Ethanediamine, N,N'-Bis[3-(trimethoxysilyl)propyl]-	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	

**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
Inorganic Filler 2	Inhalation	pulmonary fibrosis	Not classified	Multiple animal species	NOAEL not available	
Inorganic Filler 2	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
N-(3-(Trimethoxysilyl)propyl)ethylenediamine	Dermal	skin   endocrine system   hematopoietic system   kidney and/or bladder	Not classified	Rat	NOAEL 1,545 mg/kg/day	11 days
N-(3-(Trimethoxysilyl)propyl)ethylenediamine	Inhalation	respiratory system	May cause damage to organs though prolonged or repeated exposure	Rat	NOAEL 0.015 mg/l	90 days
N-(3-(Trimethoxysilyl)propyl)ethylenediamine	Inhalation	hematopoietic system   eyes   kidney and/or bladder	Not classified	Rat	NOAEL 0.044 mg/l	90 days
N-(3-(Trimethoxysilyl)propyl)ethylenediamine	Ingestion	hematopoietic system   nervous system	Not classified	Rat	NOAEL 500 mg/kg/day	28 days
N-Me 2-Pyrrolidone	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
N-Me 2-Pyrrolidone	Ingestion	endocrine system	Not classified	Rat	NOAEL 250 mg/kg/day	90 days
N-Me 2-Pyrrolidone	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 2,060 mg/kg/day	4 weeks
N-Me 2-Pyrrolidone	Ingestion	nervous system	Not classified	Rat	NOAEL 1,057 mg/kg/day	90 days
N-Me 2-Pyrrolidone	Ingestion	hematopoietic system	Not classified	Mouse	NOAEL 300 mg/kg/day	90 days
N-Me 2-Pyrrolidone	Ingestion	liver	Not classified	Mouse	NOAEL 150 mg/kg/day	3 months
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
Quartz	Inhalation	silicosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
Bis(2,2,6,6-Tetramethyl-4-	Ingestion	heart   skin	Not classified	Rat	NOAEL 261	90 days

piperidinyl) sebacate		endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   hematopoietic system   liver   immune system   muscles   nervous system   eyes   kidney and/or bladder   respiratory system   vascular system			mg/kg/day	
1,2-Ethanediamine, N,N'-Bis[3-(trimethoxysilyl)propyl]-	Inhalation	respiratory system	May cause damage to organs though prolonged or repeated exposure	Rat	NOAEL 0.015 mg/l	90 days

**Aspiration Hazard**

Name	Value
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	Aspiration hazard

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 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 Nbr	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
Inorganic Filler 2	Trade Secret	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Silyl Terminated Polyether	Trade Secret	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Non-Phthalate Plasticizer	Trade Secret	Green algae	Analogous Compound	72 hours	ErC50	78 mg/l
Non-Phthalate Plasticizer	Trade Secret	Rainbow trout	Analogous Compound	96 hours	LC50	80 mg/l
Non-Phthalate Plasticizer	Trade Secret	Water flea	Analogous Compound	48 hours	EC50	>1,000 mg/l
Non-Phthalate Plasticizer	Trade Secret	Green algae	Analogous Compound	72 hours	ErC10	13 mg/l
Calcium Carbonate	471-34-1	Green algae	Experimental	72 hours	EC50	>100 mg/l

**3M™ MSP Sprayable Seam Sealer, PN 08374, Gray**

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
Dibutyl Phthalate	84-74-2	Green algae	Experimental	96 hours	EC50	0.75 mg/l
Dibutyl Phthalate	84-74-2	Invertebrate	Experimental	96 hours	LC50	0.45 mg/l
Dibutyl Phthalate	84-74-2	Midge	Experimental	10 days	LC50	826 mg/kg (Dry Weight)
Dibutyl Phthalate	84-74-2	Water flea	Experimental	48 hours	EC50	3.4 mg/l
Dibutyl Phthalate	84-74-2	Yellow Perch	Experimental	96 hours	LC50	0.35 mg/l
Dibutyl Phthalate	84-74-2	Rainbow trout	Experimental	99 days	NOEC	0.1 mg/l
Dibutyl Phthalate	84-74-2	Water flea	Experimental	21 days	NOEC	0.33 mg/l
Dibutyl Phthalate	84-74-2	Redworm	Analogous Compound	14 days	LC50	>1,000 mg/kg (Dry Weight)
Dibutyl Phthalate	84-74-2	Ciliated protozoa	Experimental	24 hours	EC50	2.2 mg/l
Dibutyl Phthalate	84-74-2	Lettuce	Experimental	14 days	EC50	>1,000 mg/kg (Dry Weight)
Dibutyl Phthalate	84-74-2	Springtail	Experimental	21 days	EC10	14 mg/kg (Dry Weight)
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	64742-48-9	Green algae	Analogous Compound	72 hours	EL50	>1,000 mg/l
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	64742-48-9	Rainbow trout	Analogous Compound	96 hours	LL50	>1,000 mg/l
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	64742-48-9	Water flea	Analogous Compound	48 hours	EL50	>1,000 mg/l
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	64742-48-9	Fathead minnow	Analogous Compound	32 days	NOEL	>100 mg/l
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	64742-48-9	Green algae	Analogous Compound	72 hours	NOEL	1,000 mg/l
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	64742-48-9	Water flea	Experimental	21 days	NOEL	>1 mg/l
Inorganic Filler 1	Trade Secret	Activated sludge	Experimental	3 hours	NOEC	1,000 mg/l
Inorganic Filler 1	Trade Secret	Green algae	Experimental	72 hours	EL50	>100 mg/l
Inorganic Filler 1	Trade Secret	Guppy	Experimental	96 hours	LL50	>100 mg/l
Inorganic Filler 1	Trade Secret	Water flea	Experimental	48 hours	EL50	>100 mg/l
Inorganic Filler 1	Trade Secret	Green algae	Experimental	72 hours	NOEL	100 mg/l
Inorganic Filler 1	Trade Secret	Water flea	Experimental	21 days	NOEL	100 mg/l
N-Ethyl-P-Toluenesulfonamide	80-39-7	Green algae	Analogous Compound	72 hours	ErC50	78 mg/l
N-Ethyl-P-Toluenesulfonamide	80-39-7	Rainbow trout	Analogous Compound	96 hours	LC50	80 mg/l
N-Ethyl-P-Toluenesulfonamide	80-39-7	Water flea	Analogous Compound	48 hours	EC50	>1,000 mg/l
N-Ethyl-P-Toluenesulfonamide	80-39-7	Green algae	Analogous Compound	72 hours	ErC10	13 mg/l
Reaction mass of 12-hydroxy-N-[2-[(1-oxodecyl)amino]alkyl]octadecanamide, 12-hydroxy-N-[2-[(1-oxooctyl)amino]alkyl]octadecanamide and N,N'-1,2-	484-050-2	Algae or other aquatic plants	Experimental	72 hours	ErC50	0.025 mg/l

alkandiylbis[12-hydroxyoctadecanamide]						
Reaction mass of 12-hydroxy-N-[2-[(1-oxodecyl)amino]alkyl]octadecanamide, 12-hydroxy-N-[2-[(1-oxooctyl)amino]alkyl]octadecanamide and N,N'-1,2-alkandiylbis[12-hydroxyoctadecanamide]	484-050-2	Water flea	Experimental	48 hours	EC50	>100 mg/l
Reaction mass of 12-hydroxy-N-[2-[(1-oxodecyl)amino]alkyl]octadecanamide, 12-hydroxy-N-[2-[(1-oxooctyl)amino]alkyl]octadecanamide and N,N'-1,2-alkandiylbis[12-hydroxyoctadecanamide]	484-050-2	Zebra Fish	Experimental	96 hours	LC50	>100 mg/l
Reaction mass of 12-hydroxy-N-[2-[(1-oxodecyl)amino]alkyl]octadecanamide, 12-hydroxy-N-[2-[(1-oxooctyl)amino]alkyl]octadecanamide and N,N'-1,2-alkandiylbis[12-hydroxyoctadecanamide]	484-050-2	Algae or other aquatic plants	Experimental	72 hours	NOEC	0.007 mg/l
Reaction mass of 12-hydroxy-N-[2-[(1-oxodecyl)amino]alkyl]octadecanamide, 12-hydroxy-N-[2-[(1-oxooctyl)amino]alkyl]octadecanamide and N,N'-1,2-alkandiylbis[12-hydroxyoctadecanamide]	484-050-2	Water flea	Experimental	21 days	NOEC	>100 mg/l
Stearic Acid	57-11-4	Green algae	Analogous Compound	72 hours	No tox obs at lmt of water sol	>100 mg/l
Stearic Acid	57-11-4	Water flea	Analogous Compound	48 hours	No tox obs at lmt of water sol	>100 mg/l
Stearic Acid	57-11-4	Zebra Fish	Experimental	96 hours	No tox obs at lmt of water sol	>100 mg/l
Stearic Acid	57-11-4	Green algae	Analogous Compound	72 hours	No tox obs at lmt of water sol	>100 mg/l
Stearic Acid	57-11-4	Water flea	Analogous Compound	21 days	No tox obs at lmt of water sol	>100 mg/l
Stearic Acid	57-11-4	Bacteria	Experimental	18 hours	EC10	883 mg/l
N-(3-(Trimethoxysilyl)propyl)ethylenediami	1760-24-3	Bacteria	Experimental	16 hours	EC50	67 mg/l

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N-(3-(Trimethoxysilyl)propyl)ethylenediamine	1760-24-3	Fathead minnow	Experimental	96 hours	LC50	168 mg/l
N-(3-(Trimethoxysilyl)propyl)ethylenediamine	1760-24-3	Green algae	Experimental	72 hours	ErC50	8.8 mg/l
N-(3-(Trimethoxysilyl)propyl)ethylenediamine	1760-24-3	Water flea	Experimental	48 hours	EC50	81 mg/l
N-(3-(Trimethoxysilyl)propyl)ethylenediamine	1760-24-3	Green algae	Experimental	72 hours	NOEC	3.1 mg/l
N-Me 2-Pyrrolidone	872-50-4	Grass Shrimp	Experimental	96 hours	EC50	1,107 mg/l
N-Me 2-Pyrrolidone	872-50-4	Green algae	Experimental	72 hours	EC50	600.5 mg/l
N-Me 2-Pyrrolidone	872-50-4	Rainbow trout	Experimental	96 hours	LC50	>500 mg/l
N-Me 2-Pyrrolidone	872-50-4	Water flea	Experimental	48 hours	EC50	4,897 mg/l
N-Me 2-Pyrrolidone	872-50-4	Green algae	Experimental	72 hours	EC10	92.6 mg/l
N-Me 2-Pyrrolidone	872-50-4	Water flea	Experimental	21 days	NOEC	12.5 mg/l
Bis(2,2,6,6-Tetramethyl-4-piperidinyl)sebacate	52829-07-9	Bluegill	Experimental	96 hours	LC50	4.4 mg/l
Bis(2,2,6,6-Tetramethyl-4-piperidinyl)sebacate	52829-07-9	Green algae	Experimental	72 hours	EC50	0.705 mg/l
Bis(2,2,6,6-Tetramethyl-4-piperidinyl)sebacate	52829-07-9	Water flea	Experimental	48 hours	EC50	8.58 mg/l
Bis(2,2,6,6-Tetramethyl-4-piperidinyl)sebacate	52829-07-9	Green algae	Experimental	72 hours	EC10	0.188 mg/l
Bis(2,2,6,6-Tetramethyl-4-piperidinyl)sebacate	52829-07-9	Water flea	Experimental	21 days	NOEC	0.23 mg/l
Bis(2,2,6,6-Tetramethyl-4-piperidinyl)sebacate	52829-07-9	Activated sludge	Experimental	3 hours	IC50	>100
Dibutyltin Bis(Acetylacetonate)	22673-19-4	Algae or other aquatic plants	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
1,2-Ethanediamine, N,N'-Bis[3-(trimethoxysilyl)propyl]-	68845-16-9	Fathead minnow	Estimated	96 hours	LC50	168 mg/l
1,2-Ethanediamine, N,N'-Bis[3-(trimethoxysilyl)propyl]-	68845-16-9	Green algae	Estimated	72 hours	EC50	8.8 mg/l
1,2-Ethanediamine, N,N'-Bis[3-(trimethoxysilyl)propyl]-	68845-16-9	Water flea	Estimated	48 hours	EC50	81 mg/l
1,2-Ethanediamine, N,N'-Bis[3-(trimethoxysilyl)propyl]-	68845-16-9	Green algae	Estimated	72 hours	NOEC	3.1 mg/l

**12.2. Persistence and degradability**

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Limestone	1317-65-3	Data not available-insufficient	N/A	N/A	N/A	N/A
Inorganic Filler 2	Trade Secret	Data not available-insufficient	N/A	N/A	N/A	N/A
Silyl Terminated Polyether	Trade Secret	Data not available-insufficient	N/A	N/A	N/A	N/A
Non-Phthalate Plasticizer	Trade Secret	Analogous Compound Aquatic Inherent Biodegrad.	35 days	CO2 evolution	3 %CO2 evolution/THCO2 evolution	
Non-Phthalate Plasticizer	Trade Secret	Modeled Biodegradation	28 days	BOD	19 %BOD/ThOD	Catalogic™
Non-Phthalate Plasticizer	Trade Secret	Analogous Compound Biodegradation	21 days	Dissolv. Organic Carbon Deplet	50.6 %removal of DOC	similar to 835.3240
Calcium Carbonate	471-34-1	Data not available-insufficient	N/A	N/A	N/A	N/A
Dibutyl Phthalate	84-74-2	Experimental Aquatic Inherent Biodegrad.	24 hours	Percent degraded	>97 %degraded	40CFR 796.3340-Mod. SCAS test
Dibutyl Phthalate	84-74-2	Experimental Biodegradation	28 days	CO2 evolution	81 %CO2 evolution/THCO2 evolution	EC C.4.A. DOC Die-Away Test
Dibutyl Phthalate	84-74-2	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	103 days (t 1/2)	EC C.7 Hydrolysis at pH
Dibutyl Phthalate	84-74-2	Experimental Soil Metabolism Aerobic		Half-life (t 1/2)	2.9 days (t 1/2)	
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	64742-48-9	Analogous Compound Biodegradation	28 days	BOD	31.3 %BOD/ThOD	OECD 301F - Manometric respirometry
Inorganic Filler 1	Trade Secret	Data not available-insufficient	N/A	N/A	N/A	N/A

N-Ethyl-P-Toluenesulfonamide	80-39-7	Analogous Compound Aquatic Inherent Biodegrad.	35 days	CO2 evolution	3 %CO2 evolution/THCO2 evolution	
N-Ethyl-P-Toluenesulfonamide	80-39-7	Modeled Biodegradation	28 days	BOD	25 %BOD/ThOD	Catalogic™
N-Ethyl-P-Toluenesulfonamide	80-39-7	Analogous Compound Biodegradation	28 days	Dissolv. Organic Carbon Deplet	50.6 %removal of DOC	similar to 835.3240
Reaction mass of 12-hydroxy-N-[2-[(1-oxodecyl)amino]alkyl]octadecanamide, 12-hydroxy-N-[2-[(1-oxooctyl)amino]alkyl]octadecanamide and N,N'-1,2-alkandylbis[12-hydroxyoctadecanamide]	484-050-2	Experimental Biodegradation	28 days	CO2 evolution	7 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
Stearic Acid	57-11-4	Experimental Biodegradation	28 days	CO2 evolution	93.7 %CO2 evolution/THCO2 evolution	
Stearic Acid	57-11-4	Experimental Biodegradation	28 days	CO2 evolution	72 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
N-(3-(Trimethoxysilyl)propyl)ethylenediamine	1760-24-3	Experimental Biodegradation	28 days	Dissolv. Organic Carbon Deplet	39 %removal of DOC	EC C.4.A. DOC Die-Away Test
N-(3-(Trimethoxysilyl)propyl)ethylenediamine	1760-24-3	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	1.5 minutes (t 1/2)	
N-Me 2-Pyrrolidone	872-50-4	Experimental Biodegradation	28 days	BOD	73 %BOD/ThOD	OECD 301C - MITI test (I)
Bis(2,2,6,6-Tetramethyl-4-piperidiny) sebacate	52829-07-9	Experimental Biodegradation	28 days	Percent degraded	24 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
Bis(2,2,6,6-Tetramethyl-4-piperidiny) sebacate	52829-07-9	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	56.6 days (t 1/2)	OECD 111 Hydrolysis func of pH
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
1,2-Ethanediamine, N,N'-Bis[3-(trimethoxysilyl)propyl]-	68845-16-9	Estimated Biodegradation	28 days	Dissolv. Organic Carbon Deplet	39 %removal of DOC	
1,2-Ethanediamine, N,N'-Bis[3-(trimethoxysilyl)propyl]-	68845-16-9	Estimated Hydrolysis		Hydrolytic half-life	1.5 minutes (t 1/2)	

### 12.3 : Bioaccumulative potential

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Limestone	1317-65-3	Data not available or insufficient for	N/A	N/A	N/A	N/A

		classification				
Inorganic Filler 2	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Silyl Terminated Polyether	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Non-Phthalate Plasticizer	Trade Secret	Analogous Compound Bioconcentration		Log Kow	1.8	
Calcium Carbonate	471-34-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Dibutyl Phthalate	84-74-2	Experimental BCF - Fish	28 days	Bioaccumulation factor	1.8	OECD305-Bioconcentration
Dibutyl Phthalate	84-74-2	Experimental Bioconcentration		Log Kow	4.46	EC A.8 Partition Coefficient
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	64742-48-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Inorganic Filler 1	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
N-Ethyl-P-Toluenesulfonamide	80-39-7	Analogous Compound Bioconcentration		Log Kow	1.8	
Reaction mass of 12-hydroxy-N-[2-[(1-oxodecyl)amino]alkyl]octadecanamide, 12-hydroxy-N-[2-[(1-oxooctyl)amino]alkyl]octadecanamide and N,N'-1,2-alkandiybis[12-hydroxyoctadecanamide]	484-050-2	Experimental Bioconcentration		Log Kow	>6.5	OECD 117 log Kow HPLC method
Stearic Acid	57-11-4	Analogous Compound BCF - Fish	28 days	Bioaccumulation factor	288	similar to OECD 305
Stearic Acid	57-11-4	Experimental Bioconcentration		Log Kow	8.23	
N-(3-(Trimethoxysilyl)propyl)ethylenediamine	1760-24-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
N-Me 2-Pyrrolidone	872-50-4	Experimental Bioconcentration		Log Kow	-0.46	
Bis(2,2,6,6-Tetramethyl-4-piperidinyl)sebacate	52829-07-9	Experimental Bioconcentration		Log Kow	0.35	OECD 107 log Kow shke flask mtd
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
1,2-Ethanediamine, N,N'-Bis[3-(trimethoxysilyl)propyl]-	68845-16-9	Estimated Bioconcentration		Log Kow	-3.4	

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. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

### SECTION 14: Transport Information

#### International Regulations

UN No.: None assigned

UN Proper shipping name: None assigned

Transportation Class (IMO): None assigned

Transportation Class (IATA): None assigned

Other Dangerous Goods Descriptions (IMO): Not restricted, as per IMDG code 2.10.2.7, marine pollutant exception.

Other Dangerous Goods Descriptions (IATA): Not restricted, as per Special Provision A197, environmentally hazardous substance exception.

Packing Group: None assigned

Marine pollutant: None assigned

### 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 Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. 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.

##### This product may contain component(s) that are regulated by the following:

Workplace Safety and Health Act & Workplace Safety and Health (General Provisions) Regulations: this product is subject to SDS, labelling, PEL and other requirements in the Act/Regulations.

Environmental Protection and Management (Hazardous Substances) Regulations: This product is subject to the requirements in the Regulations

### SECTION 16: Other information

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 Singapore SDSs are available at [www.3m.com.sg](http://www.3m.com.sg)**