Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the Canadian Hazardous Products Regulations.

SECTION 1: Identification

1.1. Product identifier
3M™ MSP Seam Sealer – White, PN 08369

1.2. Recommended use and restrictions on use

Intended Use
Automotive

Specific Use
Seam Sealer

Restrictions on use
Not applicable

1.3. Supplier's details

Company:	3M Canada Company
Division:	Automotive Aftermarket
Address:	1840 Oxford Street East, Post Office Box 5757, London, Ontario N6A 4T1
Telephone:	(800) 364-3577
Website:	www.3M.ca

1.4. Emergency telephone number
Medical Emergency Telephone:1-800-3M HELPS / 1800 364 3577

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture
Skin Sensitizer: Category 1.
Carcinogenicity: Category 1A.
Reproductive Toxicity: Category 1B.

2.2. Label elements
Signal word
Danger

Symbols

Exclamation mark |Health Hazard |

Pictograms



Hazard Statements

May cause an allergic skin reaction. May cause cancer. May damage fertility or the unborn child.

Precautionary statements
General:
Keep out of reach of children.

Prevention:
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing fumes. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves and if needed, respiratory protection (see SDS Section 8).

Response:
IF ON SKIN: Wash with plenty of soap and water. IF exposed or concerned: Get medical attention. If skin irritation or rash occurs: Get medical attention. Take off contaminated clothing and wash it before reuse.

Storage:
Store locked up.

Disposal:
Dispose of contents and container in accordance with applicable local, regional, national, and international regulations.

2.3. Other hazards
None known.

6% of the mixture consists of ingredients of unknown acute oral toxicity.

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	C.A.S. No.	% by Wt	Common Name
Limestone	1317-65-3	15 - 40	Limestonests primarily of calcium carbonate.
Calcium Carbonate	471-34-1	10 - 30	Carbonic acid calcium salt (1:1)
Polyether	Trade Secret	10 - 30	Not Applicable
Plasticizer	Trade Secret	7 - 13	Not Applicable
Silyl Terminated Polyether - NJTS 04499600-6009P	Trade Secret	5 - 10	Not Applicable
Diisodecyl Phthalate	68515-49-1	1 - 5 Trade Secret *	1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich
Hydrotreated Heavy Naphtha (Petroleum)	64742-48-9	1 - 5 Trade Secret *	No Data Available
Stearic Acid	57-11-4	1 - 5	Octadecanoic acid
1,2-Ethanediamine, N1-[3-	1760-24-3	0.1 - 1 Trade Secret *	1,2-Ethanediamine, N-[3-

(trimethoxysilyl)propyl]-			(trimethoxysilyl)propyl]-
1-Methyl-2-Pyrrolidinone	872-50-4	0.1 - 1 Trade Secret *	2-Pyrrolidinone, 1-methyl-
Bis(2,2,6,6-tetramethyl-4-piperidinyl) sebacate	52829-07-9	0.1 - 1 Trade Secret *	Decanedioic acid, bis(2,2,6,6-tetramethyl-4-piperidinyl) ester
Dibutyltin bis(acetylacetonate)	22673-19-4	0.1 - 1 Trade Secret *	Tin, dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)-
Quartz Silica	14808-60-7	0.039 - 0.394 Trade Secret *	Quartz (SiO2)

*The concentration (exact or range) of this component has been withheld as a trade secret.

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 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. Unsuitable extinguishing media
None Determined

5.3. 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

5.4. Special protection 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 vapours, 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
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 (gloves, respirators, etc.) as required.

7.2. Conditions for safe storage including any incompatibilities
Store away from heat. Store away from acids. Store locked up.

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	C.A.S. No.	Agency	Limit type	Additional Comments
Silica, crystalline, respirable fraction	14808-60-7	ACGIH	TWA(respirable fraction):0.025 mg/m3	
Tin, organic compounds, as Sn	22673-19-4	ACGIH	TWA(as Sn):0.1 mg/m3;STEL(as Sn):0.2 mg/m3	Danger of cutaneous absorption
Stearates (except stearates of toxic metals), inhalable fraction	57-11-4	ACGIH	TWA(respirable fraction):3 mg/m3;TWA(inhalable fraction):10 mg/m3	
1-Methyl-2-Pyrrolidinone	872-50-4	AIHA	TWA:60 mg/m3(15 ppm);STEL(15 minutes):120 mg/m3(30 ppm)	SKIN

ACGIH : American Conference of Governmental Industrial Hygienists
AIHA : American Industrial Hygiene Association
CMRG : Chemical Manufacturer's Recommended Guidelines
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
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 (e.g., spraying, high splash potential, etc.), then use of a protective apron may be necessary. See recommended glove material(s) for determining appropriate apron material(s). If a glove material is not available as an apron, polymer laminate is a suitable option.

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

Physical state	Solid
Specific Physical Form:	Paste
Colour	White
Odour	Slight Solvent
Odour threshold	*No Data Available*
pH	*Not Applicable*
Melting point/Freezing point	*Not Applicable*
Boiling point	No boiling point
Flash Point	No flash point
Evaporation rate	*No Data Available*
Flammability	Not Applicable
Flammable Limits(LEL)	*No Data Available*
Flammable Limits(UEL)	*No Data Available*
Vapour Pressure	*Not Applicable*
Relative Vapour Density	*Not Applicable*
Density	1.68 g/cm3

Relative density	1.68 [*Ref Std:*WATER=1]
Water solubility	Negligible
Solubility- non-water	*No Data Available*
Partition coefficient: n-octanol/ water	*No Data Available*
Autoignition temperature	*No Data Available*
Decomposition temperature	*No Data Available*
Kinematic Viscosity	1,041,667 mm2/sec
Volatile Organic Compounds	100 g/l [*Test Method:*calculated SCAQMD rule 443.1]
Volatile Organic Compounds	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	*No Data Available*
Bulk density	*No Data Available*
Molecular weight	*No Data Available*
Softening point	*No Data Available*

* 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.

Particle Characteristics	*Not Applicable*

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 polymerization will not occur.

10.4. Conditions to avoid
Heat
Sparks and/or flames

10.5. Incompatible materials
Strong acids

No Data Available

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 labeling, 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:
Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea. 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.

Ingredient	CAS No.	Class Description	Regulation
Silica, Crystalline (Respirable Size)	14808-60-7	Known To Be Human Carcinogen.	National Toxicology Program Carcinogens
Silica dust, crystalline, in the form of quartz or cristobalite	14808-60-7	Grp. 1: Carcinogenic to humans	International Agency for Research on 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 >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	Rat	LC50 3 mg/l

	(4 hours)		
Calcium Carbonate	Ingestion	Rat	LD50 6,450 mg/kg
Silyl Terminated Polyether - NJTS 04499600-6009P	Dermal		LD50 estimated to be > 5,000 mg/kg
Silyl Terminated Polyether - NJTS 04499600-6009P	Ingestion	Rat	LD50 > 5,000 mg/kg
Plasticizer	Dermal	Rabbit	LD50 > 5,000 mg/kg
Plasticizer	Ingestion	Rat	LD50 5,800 mg/kg
Stearic Acid	Dermal	Rabbit	LD50 > 2,000 mg/kg
Stearic Acid	Ingestion	Rat	LD50 > 5,000 mg/kg
Hydrotreated Heavy Naphtha (Petroleum)	Dermal	similar compounds	LD50 > 5,000 mg/kg
Hydrotreated Heavy Naphtha (Petroleum)	Ingestion	similar compounds	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
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	Dermal	Rabbit	LD50 > 2,000 mg/kg
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	Inhalation-Dust/Mist (4 hours)	Rat	LC50 >1.49, <2.44 mg/l
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	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 Silica	Dermal		LD50 estimated to be > 5,000 mg/kg
Quartz Silica	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
Bis(2,2,6,6-tetramethyl-4-piperidinyl) sebacate	Dermal	Rat	LD50 > 3,170 mg/kg
Bis(2,2,6,6-tetramethyl-4-piperidinyl) sebacate	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.5 mg/l
Bis(2,2,6,6-tetramethyl-4-piperidinyl) sebacate	Ingestion	Rat	LD50 3,700 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Limestone	Rabbit	No significant irritation
Calcium Carbonate	Rabbit	No significant irritation
Plasticizer	Rabbit	No significant irritation
Stearic Acid	Rabbit	No significant irritation
Hydrotreated Heavy Naphtha (Petroleum)	similar compounds	Mild irritant
Diisodecyl Phthalate	Rabbit	Minimal irritation
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	Rabbit	Mild irritant
1-Methyl-2-Pyrrolidinone	Rabbit	Minimal irritation
Quartz Silica	Professional judgement	No significant irritation
Dibutyltin bis(acetylacetonate)	Rat	Corrosive
Bis(2,2,6,6-tetramethyl-4-piperidinyl) sebacate	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Limestone	Rabbit	No significant irritation

Calcium Carbonate	Rabbit	No significant irritation
Plasticizer	Rabbit	No significant irritation
Stearic Acid	Rabbit	No significant irritation
Hydrotreated Heavy Naphtha (Petroleum)	similar compounds	No significant irritation
Diisodecyl Phthalate	Rabbit	Mild irritant
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	Rabbit	Corrosive
1-Methyl-2-Pyrrolidinone	Rabbit	Severe irritant
Dibutyltin bis(acetylacetonate)	In vitro data	Corrosive
Bis(2,2,6,6-tetramethyl-4-piperidinyl) sebacate	Rabbit	Corrosive

Skin Sensitization

Name	Species	Value
Plasticizer	similar compounds	Not classified
Hydrotreated Heavy Naphtha (Petroleum)	similar compounds	Not classified
Diisodecyl Phthalate	Guinea pig	Not classified
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	Multiple animal species	Sensitizing
1-Methyl-2-Pyrrolidinone	Human and animal	Not classified
Dibutyltin bis(acetylacetonate)	Guinea pig	Sensitizing
Bis(2,2,6,6-tetramethyl-4-piperidinyl) sebacate	Guinea pig	Not classified

Photosensitization

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

Respiratory Sensitization

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

Germ Cell Mutagenicity

Name	Route	Value
Plasticizer	In Vitro	Not mutagenic
Plasticizer	In vivo	Not mutagenic
Stearic Acid	In Vitro	Not mutagenic
Hydrotreated Heavy Naphtha (Petroleum)	In Vitro	Not mutagenic
Diisodecyl Phthalate	In Vitro	Not mutagenic
Diisodecyl Phthalate	In vivo	Not mutagenic
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	In Vitro	Not mutagenic
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	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 Silica	In Vitro	Some positive data exist, but the data are not sufficient for classification
Quartz Silica	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

Bis(2,2,6,6-tetramethyl-4-piperidinyl) sebacate	In Vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Stearic Acid	Ingestion	Rat	Not carcinogenic
1-Methyl-2-Pyrrolidinone	Inhalation	Rat	Not carcinogenic
Quartz Silica	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	premating & during gestation
Calcium Carbonate	Ingestion	Not classified for development	Rat	NOAEL 625 mg/kg/day	premating & 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
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	Ingestion	Not classified for female reproduction	Rat	NOAEL 500 mg/kg/day	premating into lactation
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	Ingestion	Not classified for male reproduction	Rat	NOAEL 500 mg/kg/day	28 days
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	Ingestion	Not classified for development	Rat	NOAEL 750 mg/kg/day	during gestation
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	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	
Hydrotreated Heavy Naphtha (Petroleum)	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	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	
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	

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
Plasticizer	Ingestion	liver	Not classified	Rat	NOAEL 400 mg/kg/day	90 days
Plasticizer	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 100 mg/kg/day	90 days
Plasticizer	Ingestion	heart	Not classified	Rat	NOAEL 400 mg/kg/day	90 days
Plasticizer	Ingestion	endocrine system	Not classified	Rat	NOAEL 400 mg/kg/day	90 days
Plasticizer	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 400 mg/kg/day	90 days
Plasticizer	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 400 mg/kg/day	90 days
Plasticizer	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 400 mg/kg/day	90 days
Plasticizer	Ingestion	immune system	Not classified	Rat	NOAEL 400 mg/kg/day	90 days
Plasticizer	Ingestion	nervous system	Not classified	Rat	NOAEL 400 mg/kg/day	90 days
Plasticizer	Ingestion	eyes	Not classified	Rat	NOAEL 400 mg/kg/day	90 days
Plasticizer	Ingestion	respiratory system	Not classified	Rat	NOAEL 400 mg/kg/day	90 days
Plasticizer	Ingestion	vascular system	Not classified	Rat	NOAEL 400 mg/kg/day	90 days
Stearic Acid	Ingestion	blood	Not classified	Rat	NOAEL Not available	6 weeks
Diisodecyl Phthalate	Inhalation	respiratory system	Not classified	Rat	NOAEL 0.5 mg/l	2 weeks
Diisodecyl Phthalate	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 0.5 mg/l	2 weeks
Diisodecyl Phthalate	Inhalation	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	Not classified	Rat	NOAEL 500 mg/kg/day	90 days

Diisodecyl Phthalate	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 500 mg/kg/day	90 days
Diisodecyl Phthalate	Ingestion	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
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	Dermal	skin	Not classified	Rat	NOAEL 1,545 mg/kg/day	11 days
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	Dermal	endocrine system	Not classified	Rat	NOAEL 1,545 mg/kg/day	11 days
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	Dermal	hematopoietic system	Not classified	Rat	NOAEL 1,545 mg/kg/day	11 days
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	Dermal	kidney and/or bladder	Not classified	Rat	NOAEL 1,545 mg/kg/day	11 days
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	Inhalation	respiratory system	May cause damage to organs though prolonged or repeated exposure	Rat	NOAEL 0.015 mg/l	90 days
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 0.044 mg/l	90 days
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	Inhalation	eyes	Not classified	Rat	NOAEL 0.044 mg/l	90 days
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 0.044 mg/l	90 days
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 500 mg/kg/day	28 days
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	Ingestion	nervous system	Not classified	Rat	NOAEL 500 mg/kg/day	28 days
1-Methyl-2-Pyrrolidinone	Inhalation	bone marrow	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 0.5 mg/l	4 weeks
1-Methyl-2-Pyrrolidinone	Inhalation	immune 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	Inhalation	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 Silica	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
Bis(2,2,6,6-tetramethyl-4-piperidinyl) sebacate	Ingestion	heart	Not classified	Rat	NOAEL 261 mg/kg/day	90 days
Bis(2,2,6,6-tetramethyl-4-piperidinyl) sebacate	Ingestion	skin	Not classified	Rat	NOAEL 261 mg/kg/day	90 days
Bis(2,2,6,6-tetramethyl-4-piperidinyl) sebacate	Ingestion	endocrine system	Not classified	Rat	NOAEL 261 mg/kg/day	90 days
Bis(2,2,6,6-tetramethyl-4-piperidinyl) sebacate	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 261 mg/kg/day	90 days
Bis(2,2,6,6-tetramethyl-4-	Ingestion	bone, teeth, nails,	Not classified	Rat	NOAEL 261	90 days

piperidinyl) sebacate		and/or hair			mg/kg/day	
Bis(2,2,6,6-tetramethyl-4-piperidinyl) sebacate	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 261 mg/kg/day	90 days
Bis(2,2,6,6-tetramethyl-4-piperidinyl) sebacate	Ingestion	liver	Not classified	Rat	NOAEL 261 mg/kg/day	90 days
Bis(2,2,6,6-tetramethyl-4-piperidinyl) sebacate	Ingestion	immune system	Not classified	Rat	NOAEL 261 mg/kg/day	90 days
Bis(2,2,6,6-tetramethyl-4-piperidinyl) sebacate	Ingestion	muscles	Not classified	Rat	NOAEL 261 mg/kg/day	90 days
Bis(2,2,6,6-tetramethyl-4-piperidinyl) sebacate	Ingestion	nervous system	Not classified	Rat	NOAEL 261 mg/kg/day	90 days
Bis(2,2,6,6-tetramethyl-4-piperidinyl) sebacate	Ingestion	eyes	Not classified	Rat	NOAEL 261 mg/kg/day	90 days
Bis(2,2,6,6-tetramethyl-4-piperidinyl) sebacate	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 261 mg/kg/day	90 days
Bis(2,2,6,6-tetramethyl-4-piperidinyl) sebacate	Ingestion	respiratory system	Not classified	Rat	NOAEL 261 mg/kg/day	90 days
Bis(2,2,6,6-tetramethyl-4-piperidinyl) sebacate	Ingestion	vascular system	Not classified	Rat	NOAEL 261 mg/kg/day	90 days

Aspiration Hazard

Name	Value
Hydrotreated Heavy Naphtha (Petroleum)	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

No data 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

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

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 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 material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information. 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

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.
Health: 2 **Flammability:** 1 **Instability:** 0 **Special Hazards:** None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

HMIS Hazard Classification
Health: *2 **Flammability:** 1 **Physical Hazard:** 0 **Personal Protection:** X - See PPE section.

Hazardous Material Identification System (HMIS® IV) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® IV ratings are to be used with a fully implemented HMIS® IV program. HMIS® is a registered mark of the American Coatings Association (ACA).

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3M Canada SDSs are available at www.3M.ca