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™ All-Around Autobody Sealant, PN 08500, 08510

1.2. Recommended use and restrictions on use

Recommended use
Autobody Sealant, Sealant.

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 2.
Carcinogenicity: Category 1A.
Chronic Aquatic Toxicity: Category 1.

2.2. Label elements
SIGNAL WORD
DANGER!

Symbols
Exclamation mark |Health Hazard | Environment |

Pictograms



HAZARD STATEMENTS

H319	Causes serious eye irritation.
H350	May cause cancer.
H410	Very toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

Prevention:

P201	Obtain special instructions before use.
P273	Avoid release to the environment.
P280F	Wear respiratory protection, if needed (see SDS Section 8).

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.
P308 + P313	IF exposed or concerned: Get medical attention.
P391	Collect spillage.

Storage:

P405	Store locked up.

Disposal:

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

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	CAS Nbr	% by Wt
Limestone	1317-65-3	30 - 60
Water	7732-18-5	10 - 30
Acrylic latex polymer	Trade Secret	10 - 30
Diisononyl Phthalate	28553-12-0	3 - 7
Titanium dioxide	13463-67-7	1 - 5
Polyoxyethylene Monooctylphenyl Ether	9036-19-5	< 2.5
Stoddard solvent	8052-41-3	0.5 - 1.5
Quartz	14808-60-7	< 0.5
3-Iodo-2-propynyl butylcarbamate	55406-53-6	< 0.05
Carbendazim	10605-21-7	< 0.05

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Remove person to fresh air. If you feel unwell, get medical attention.

Skin contact

Wash with soap and water. 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
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	Condition
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.

5.3. Special protective actions for fire-fighters
Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
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. 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.

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 detergent and water. 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. Avoid release to the environment. Use personal protective equipment (eg. gloves, respirators…) as required.

7.2. Conditions for safe storage including any incompatibilities
No special storage requirements.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits
If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
Limestone	1317-65-3	Singapore PELs	TWA(8 hours):10 mg/m3	
Titanium dioxide	13463-67-7	ACGIH	TWA(Respirable nanoscale particles):0.2 mg/m3;TWA(Respirable finescale particles):2.5 mg/m3	A3: Confirmed animal carcin.
Titanium dioxide	13463-67-7	Singapore PELs	TWA(8 hours):10 mg/m3	
Quartz	14808-60-7	Singapore PELs	TWA(as respirable dust)(8 hours):0.1 mg/m3	
Silica, crystalline, respirable fraction	14808-60-7	ACGIH	TWA(respirable fraction):0.025 mg/m3	A2: Suspected human carcin.
Stoddard solvent	8052-41-3	ACGIH	TWA:100 ppm	
Stoddard solvent	8052-41-3	Singapore PELs	TWA(8 hours):525 mg/m3(100 ppm)	

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:
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.

For prolonged or repeated contact, gloves made from the following material(s) are recommended (breakthrough times are >4 hours): Nitrile rubber., Polymer laminate

Any glove recommended for prolonged/repeated contact is also suitable for short-term/splash contact.

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	Liquid.
Specific Physical Form:	Paste
Color	White
Odor	Mild Acrylic
Odour threshold	*No data available.*
pH	7.5 - 8.5
Melting point/Freezing point	*Not applicable.*
Boiling point/Initial boiling point/Boiling range	100 ºC [*Test Method:*Estimated]
Flash point	> 100 ºC
Evaporation rate	0.3 [*Ref Std:*BUOAC=1]
Flammability	Not applicable.
Flammable Limits(LEL)	*Not applicable.*
Flammable Limits(UEL)	*Not applicable.*
Vapour pressure	2,399.8 Pa [*Details:*CONDITIONS: @ 25C]
Relative Vapor Density	0.8 [*Ref Std:*AIR=1]
Density	1.56 - 1.61 g/ml
Relative density	1.6 [*Ref Std:*WATER=1]
Water solubility	Moderate
Solubility- non-water	*No data available.*
Partition coefficient: n-octanol/water	*No data available.*
Autoignition temperature	*Not applicable.*
Decomposition temperature	*No data available.*
Kinematic Viscosity	75,000 mm²/sec
Volatile organic compounds (VOC)	17 g/l [*Test Method:*calculated SCAQMD rule 443.1]
Volatile organic compounds (VOC)	1.03 % weight [*Test Method:*calculated per CARB title 2]
Percent volatile	24 - 26 % volume
VOC less H2O & exempt solvents	21 g/l [*Test Method:*calculated SCAQMD rule 443.1]
Molecular weight	*No data available.*

Particle Characteristics	*Not applicable.*

SECTION 10: Stability and reactivity

10.1 Reactivity
This material is considered to be non reactive under normal use conditions

10.2 Chemical stability
Stable.

10.3 Possibility of hazardous reactions
Hazardous polymerisation will not occur.

10.4 Conditions to avoid
None known.

10.5 Incompatible materials
None known.

10.6 Hazardous decomposition products

Substance	Condition
None known.	

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

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

11.1 Information on Toxicological effects

Signs and Symptoms of Exposure

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

Inhalation
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
Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

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

Ingestion
Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea.

Additional Health Effects:

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

Toxicological Data
If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Inhalation-Vapor(4 hr)		No data available; calculated ATE >50 mg/l
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
Diisononyl Phthalate	Dermal	Rabbit	LD50 > 3,160 mg/kg
Diisononyl Phthalate	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 1.7 mg/l
Diisononyl Phthalate	Ingestion	Rat	LD50 > 10,000 mg/kg
Polyoxyethylene Monooctylphenyl Ether	Dermal	Rabbit	LD50 > 3,000 mg/kg
Polyoxyethylene Monooctylphenyl Ether	Ingestion	Rat	LD50 >= 1,900 mg/kg
Titanium dioxide	Dermal	Rabbit	LD50 > 10,000 mg/kg
Titanium dioxide	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 6.82 mg/l
Titanium dioxide	Ingestion	Rat	LD50 > 10,000 mg/kg
Stoddard solvent	Inhalation-Vapor		LC50 estimated to be 20 - 50 mg/l
Stoddard solvent	Dermal	Rabbit	LD50 > 3,000 mg/kg
Stoddard solvent	Ingestion	Rat	LD50 > 5,000 mg/kg
Quartz	Dermal		LD50 estimated to be > 5,000 mg/kg
Quartz	Ingestion		LD50 estimated to be > 5,000 mg/kg
Carbendazim	Dermal		estimated to be > 5,000 mg/kg
Carbendazim	Inhalation-Dust/Mist		estimated to be > 12.5 mg/l
Carbendazim	Ingestion		estimated to be > 5,000 mg/kg
3-Iodo-2-propynyl butylcarbamate	Dermal	Rabbit	LD50 > 2,000 mg/kg
3-Iodo-2-propynyl butylcarbamate	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.67 mg/l
3-Iodo-2-propynyl butylcarbamate	Ingestion	Rat	LD50 1,056 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Limestone	Rabbit	No significant irritation
Diisononyl Phthalate	Rabbit	No significant irritation
Polyoxyethylene Monooctylphenyl Ether	Professional judgement	Irritant
Titanium dioxide	Rabbit	No significant irritation
Stoddard solvent	Rabbit	Irritant
Quartz	Professional judgement	No significant irritation
3-Iodo-2-propynyl butylcarbamate	Rabbit	Minimal irritation

Serious Eye Damage/Irritation

Name	Species	Value
Limestone	Rabbit	No significant irritation
Diisononyl Phthalate	Rabbit	Mild irritant
Polyoxyethylene Monooctylphenyl Ether	Professional judgement	Corrosive
Titanium dioxide	Rabbit	No significant irritation
Stoddard solvent	Rabbit	No significant irritation
3-Iodo-2-propynyl butylcarbamate	Rabbit	Corrosive

Sensitization:

Skin Sensitisation

Name	Species	Value
Diisononyl Phthalate	Human and animal	Not classified
Polyoxyethylene Monooctylphenyl Ether	Human and animal	Not classified
Titanium dioxide	Human and animal	Not classified
Stoddard solvent	Guinea pig	Not classified
3-Iodo-2-propynyl butylcarbamate	Multiple animal species	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
Diisononyl Phthalate	In Vitro	Not mutagenic
Polyoxyethylene Monooctylphenyl Ether	In Vitro	Not mutagenic
Titanium dioxide	In Vitro	Not mutagenic
Titanium dioxide	In vivo	Not mutagenic
Stoddard solvent	In vivo	Not mutagenic
Stoddard solvent	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
3-Iodo-2-propynyl butylcarbamate	In Vitro	Not mutagenic
3-Iodo-2-propynyl butylcarbamate	In vivo	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Diisononyl Phthalate	Ingestion	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
Titanium dioxide	Ingestion	Multiple animal species	Not carcinogenic
Titanium dioxide	Inhalation	Rat	Carcinogenic.

Stoddard solvent	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
Stoddard solvent	Inhalation	Human and animal	Some positive data exist, but the data are not sufficient for classification
Quartz	Inhalation	Human and animal	Carcinogenic.
3-Iodo-2-propynyl butylcarbamate	Ingestion	Mouse	Some positive data exist, but the data are not sufficient for classification

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
Diisononyl Phthalate	Ingestion	Not classified for female reproduction	Rat	NOAEL 500 mg/kg/day	2 generation
Diisononyl Phthalate	Ingestion	Not classified for male reproduction	Rat	NOAEL 500 mg/kg/day	2 generation
Diisononyl Phthalate	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	during organogenesis
Polyoxyethylene Monooctylphenyl Ether	Dermal	Not classified for development	Rat	NOAEL 1,600 mg/kg/day	during organogenesis
Polyoxyethylene Monooctylphenyl Ether	Ingestion	Not classified for development	Rat	NOAEL 340 mg/kg/day	during organogenesis
Stoddard solvent	Inhalation	Not classified for development	Rat	NOAEL 2.4 mg/l	during organogenesis
3-Iodo-2-propynyl butylcarbamate	Ingestion	Not classified for female reproduction	Rat	NOAEL 37.5 mg/kg/day	2 generation
3-Iodo-2-propynyl butylcarbamate	Ingestion	Not classified for male reproduction	Rat	NOAEL 37.5 mg/kg/day	2 generation
3-Iodo-2-propynyl butylcarbamate	Ingestion	Not classified for development	Rat	NOAEL 50 mg/kg/day	during organogenesis

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Limestone	Inhalation	respiratory system	Not classified	Rat	NOAEL 0.812 mg/l	90 minutes
Polyoxyethylene Monooctylphenyl Ether	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Stoddard solvent	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
Stoddard solvent	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
Stoddard solvent	Inhalation	nervous system	Not classified	Dog	NOAEL 6.5 mg/l	4 hours
Stoddard solvent	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	
3-Iodo-2-propynyl butylcarbamate	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
Diisononyl Phthalate	Dermal	blood	Not classified	Rabbit	NOAEL 2,425 mg/kg/day	6 weeks
Diisononyl Phthalate	Dermal	liver	Not classified	Rabbit	NOAEL 2,425 mg/kg/day	6 weeks
Diisononyl Phthalate	Dermal	kidney and/or bladder	Not classified	Rabbit	NOAEL 2,425 mg/kg/day	6 weeks
Diisononyl Phthalate	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL not available	13 weeks
Diisononyl Phthalate	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 733 mg/kg/day	2 years
Diisononyl Phthalate	Ingestion	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
Diisononyl Phthalate	Ingestion	nervous system	Not classified	Rat	NOAEL 733 mg/kg/day	2 years
Diisononyl Phthalate	Ingestion	respiratory system	Not classified	Rat	NOAEL 733 mg/kg/day	2 years
Titanium dioxide	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 0.01 mg/l	2 years
Titanium dioxide	Inhalation	pulmonary fibrosis	Not classified	Human	NOAEL Not available	occupational exposure
Stoddard solvent	Inhalation	nervous system	Not classified	Rat	LOAEL 4.6 mg/l	6 months
Stoddard solvent	Inhalation	kidney and/or bladder	Not classified	Rat	LOAEL 1.9 mg/l	13 weeks
Stoddard solvent	Inhalation	respiratory system	Not classified	Multiple animal species	NOAEL 0.6 mg/l	90 days
Stoddard solvent	Inhalation	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 5.6 mg/l	12 weeks
Stoddard solvent	Inhalation	blood	Not classified	Rat	NOAEL 5.6 mg/l	12 weeks
Stoddard solvent	Inhalation	liver	Not classified	Rat	NOAEL 5.6 mg/l	12 weeks
Stoddard solvent	Inhalation	muscles	Not classified	Rat	NOAEL 5.6 mg/l	12 weeks
Stoddard solvent	Inhalation	heart	Not classified	Multiple animal species	NOAEL 1.3 mg/l	90 days
Quartz	Inhalation	silicosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
3-Iodo-2-propynyl butylcarbamate	Dermal	skin	Not classified	Rat	NOAEL 500 mg/kg/day	90 days
3-Iodo-2-propynyl butylcarbamate	Dermal	heart	Not classified	Rat	NOAEL 500 mg/kg/day	90 days
3-Iodo-2-propynyl butylcarbamate	Dermal	hematopoietic system	Not classified	Rat	NOAEL 500 mg/kg/day	90 days
3-Iodo-2-propynyl butylcarbamate	Dermal	liver	Not classified	Rat	NOAEL 500 mg/kg/day	90 days
3-Iodo-2-propynyl butylcarbamate	Dermal	eyes	Not classified	Rat	NOAEL 500 mg/kg/day	90 days
3-Iodo-2-propynyl butylcarbamate	Dermal	kidney and/or bladder	Not classified	Rat	NOAEL 500 mg/kg/day	90 days
3-Iodo-2-propynyl butylcarbamate	Dermal	respiratory system	Not classified	Rat	NOAEL 500 mg/kg/day	90 days
3-Iodo-2-propynyl butylcarbamate	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	NOAEL 0.00116 mg/l	90 days

3-Iodo-2-propynyl butylcarbamate	Inhalation	heart	Not classified	Rat	NOAEL 0.00625 mg/l	90 days
3-Iodo-2-propynyl butylcarbamate	Inhalation	skin	Not classified	Rat	NOAEL 0.00625 mg/l	90 days
3-Iodo-2-propynyl butylcarbamate	Inhalation	endocrine system	Not classified	Rat	NOAEL 0.00625 mg/l	90 days
3-Iodo-2-propynyl butylcarbamate	Inhalation	gastrointestinal tract	Not classified	Rat	NOAEL 0.00625 mg/l	90 days
3-Iodo-2-propynyl butylcarbamate	Inhalation	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 0.00625 mg/l	90 days
3-Iodo-2-propynyl butylcarbamate	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 0.00625 mg/l	90 days
3-Iodo-2-propynyl butylcarbamate	Inhalation	liver	Not classified	Rat	NOAEL 0.00625 mg/l	90 days
3-Iodo-2-propynyl butylcarbamate	Inhalation	immune system	Not classified	Rat	NOAEL 0.00625 mg/l	90 days
3-Iodo-2-propynyl butylcarbamate	Inhalation	muscles	Not classified	Rat	NOAEL 0.00625 mg/l	90 days
3-Iodo-2-propynyl butylcarbamate	Inhalation	nervous system	Not classified	Rat	NOAEL 0.00625 mg/l	90 days
3-Iodo-2-propynyl butylcarbamate	Inhalation	eyes	Not classified	Rat	NOAEL 0.00625 mg/l	90 days
3-Iodo-2-propynyl butylcarbamate	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 0.00625 mg/l	90 days
3-Iodo-2-propynyl butylcarbamate	Inhalation	vascular system	Not classified	Rat	NOAEL 0.00625 mg/l	90 days
3-Iodo-2-propynyl butylcarbamate	Ingestion	liver	Not classified	Rat	NOAEL 125 mg/kg/day	90 days
3-Iodo-2-propynyl butylcarbamate	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 125 mg/kg/day	90 days
3-Iodo-2-propynyl butylcarbamate	Ingestion	eyes	Not classified	Rat	NOAEL 125 mg/kg/day	90 days

Aspiration Hazard

Name	Value
Stoddard solvent	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 2: Toxic to aquatic life.

Chronic aquatic hazard:
GHS Chronic 1: Very 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
Diisononyl Phthalate	28553-12-0	Midge	Analogous Compound	10 days	LC50	>2,680 mg/kg (Dry Weight)
Diisononyl Phthalate	28553-12-0	Mysid Shrimp	Analogous Compound	96 hours	No tox obs at lmt of water sol	>100 mg/l
Diisononyl Phthalate	28553-12-0	Sheepshead Minnow	Analogous Compound	96 hours	No tox obs at lmt of water sol	>100 mg/l
Diisononyl Phthalate	28553-12-0	Green algae	Experimental	72 hours	No tox obs at lmt of water sol	>100 mg/l
Diisononyl Phthalate	28553-12-0	Water flea	Experimental	48 hours	No tox obs at lmt of water sol	>100 mg/l
Diisononyl Phthalate	28553-12-0	Zebra Fish	Experimental	96 hours	No tox obs at lmt of water sol	>100 mg/l
Diisononyl Phthalate	28553-12-0	Sediment organism	Analogous Compound	35 days	NOEC	858 mg/kg (Dry Weight)
Diisononyl Phthalate	28553-12-0	Green algae	Experimental	72 hours	No tox obs at lmt of water sol	100 mg/l
Diisononyl Phthalate	28553-12-0	Water flea	Experimental	21 days	No tox obs at lmt of water sol	100 mg/l
Diisononyl Phthalate	28553-12-0	Activated sludge	Analogous Compound	30 minutes	EC50	>83.9 mg/l
Diisononyl Phthalate	28553-12-0	Lettuce	Analogous Compound	28 days	NOEC	1,387 mg/kg (Dry Weight)
Diisononyl Phthalate	28553-12-0	Redworm	Analogous Compound	14 days	LC50	>7,270 mg/kg (Dry Weight)
Diisononyl Phthalate	28553-12-0	Redworm	Analogous Compound	56 days	NOEC	982.4 mg/kg (Dry Weight)
Diisononyl Phthalate	28553-12-0	Wheat	Experimental	22 days	EC50	>1,000 mg/kg (Dry Weight)
Titanium dioxide	13463-67-7	Activated sludge	Experimental	3 hours	NOEC	>=1,000 mg/l
Titanium dioxide	13463-67-7	Diatom	Experimental	72 hours	EC50	>10,000 mg/l
Titanium dioxide	13463-67-7	Fathead minnow	Experimental	96 hours	LC50	>100 mg/l
Titanium dioxide	13463-67-7	Water flea	Experimental	48 hours	EC50	>100 mg/l
Titanium dioxide	13463-67-7	Diatom	Experimental	72 hours	NOEC	5,600 mg/l
Polyoxyethylene Monooctylphenyl Ether	9036-19-5	Mysid Shrimp	Analogous Compound	48 hours	LC50	0.11 mg/l
Polyoxyethylene Monooctylphenyl Ether	9036-19-5	Green algae	Experimental	96 hours	EC50	0.21 mg/l
Polyoxyethylene Monooctylphenyl Ether	9036-19-5	Water flea	Experimental	48 hours	EC50	2.518 mg/l
Polyoxyethylene Monooctylphenyl Ether	9036-19-5	Mysid Shrimp	Analogous Compound	28 days	NOEC	0.0077 mg/l
Polyoxyethylene Monooctylphenyl Ether	9036-19-5	Bacteria	Experimental	16 hours	IC50	500 mg/l
Stoddard solvent	8052-41-3	Green algae	Estimated	96 hours	EL50	2.5 mg/l
Stoddard solvent	8052-41-3	Invertebrate	Estimated	96 hours	LC50	3.5 mg/l
Stoddard solvent	8052-41-3	Rainbow trout	Estimated	96 hours	LL50	41.4 mg/l
Stoddard solvent	8052-41-3	Green algae	Estimated	96 hours	NOEL	0.76 mg/l
Stoddard solvent	8052-41-3	Water flea	Estimated	21 days	NOEC	0.28 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
3-Iodo-2-propynyl butylcarbamate	55406-53-6	Activated sludge	Experimental	3 hours	EC50	44 mg/l
3-Iodo-2-propynyl butylcarbamate	55406-53-6	Green algae	Experimental	72 hours	ErC50	0.053 mg/l
3-Iodo-2-propynyl butylcarbamate	55406-53-6	Rainbow trout	Experimental	96 hours	LC50	0.067 mg/l
3-Iodo-2-propynyl butylcarbamate	55406-53-6	Water flea	Experimental	48 hours	LC50	0.645 mg/l

3-Iodo-2-propynyl butylcarbamate	55406-53-6	Fathead minnow	Experimental	35 days	NOEC	0.0084 mg/l
3-Iodo-2-propynyl butylcarbamate	55406-53-6	Green algae	Experimental	72 hours	ErC10	0.013 mg/l
3-Iodo-2-propynyl butylcarbamate	55406-53-6	Water flea	Experimental	21 days	NOEC	0.0499 mg/l
Carbendazim	10605-21-7	Fish	Experimental	96 hours	LC50	0.007 mg/l
Carbendazim	10605-21-7	Water flea	Experimental	48 hours	EC50	0.0282 mg/l
Carbendazim	10605-21-7	Water flea	Experimental	14 days	NOEC	0.0033 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
Diisononyl Phthalate	28553-12-0	Experimental Biodegradation	28 days	CO2 evolution	81 %CO2 evolution/THCO2 evolution	
Titanium dioxide	13463-67-7	Data not available-insufficient	N/A	N/A	N/A	N/A
Polyoxyethylene Monooctylphenyl Ether	9036-19-5	Experimental Biodegradation	28 days	BOD	22 %BOD/ThOD	OECD 301C - MITI test (I)
Stoddard solvent	8052-41-3	Experimental Biodegradation	28 days	CO2 evolution	>63 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
Stoddard solvent	8052-41-3	Experimental Photolysis		Photolytic half-life (in air)	6.49 days (t 1/2)	
Quartz	14808-60-7	Data not available-insufficient	N/A	N/A	N/A	N/A
3-Iodo-2-propynyl butylcarbamate	55406-53-6	Experimental Biodegradation	28 days	BOD	21 %BOD/ThOD	OECD 301F - Manometric respirometry
Carbendazim	10605-21-7	Experimental Hydrolysis		Hydrolytic half-life	>35 days (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 classification	N/A	N/A	N/A	N/A
Diisononyl Phthalate	28553-12-0	Analogous Compound BCF - Fish	14 days	Bioaccumulation factor	<3	
Diisononyl Phthalate	28553-12-0	Experimental Bioconcentration		Log Kow	8.8	EC A.8 Partition Coefficient
Titanium dioxide	13463-67-7	Experimental BCF - Fish	42 days	Bioaccumulation factor	9.6	
Polyoxyethylene Monooctylphenyl Ether	9036-19-5	Experimental BCF - Fish	28 days	Bioaccumulation factor	<31	
Polyoxyethylene Monooctylphenyl Ether	9036-19-5	Modeled Bioconcentration		Log Kow	4.86	Episuite™
Stoddard solvent	8052-41-3	Estimated Bioconcentration		Log Kow	6.4	
Quartz	14808-60-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

3-Iodo-2-propynyl butylcarbamate	55406-53-6	Experimental Bioconcentration		Log Kow	2.81	
Carbendazim	10605-21-7	Estimated BCF - Fish	42 days	Bioaccumulation factor	3.5	

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 waste product in a permitted industrial waste facility. As a disposal alternative, incinerate 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 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.

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.

Fire Safety (Petroleum and Flammable Materials) Regulations: This product is subject to the requirements in the 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