



Safety Data Sheet

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Document Group:	34-4573-1	Version Number:	3.00
Issue Date:	05/07/2026	Supersedes Date:	29/06/2021

This Safety Data Sheet has been prepared in accordance with the Malaysia Occupational Safety and Health (Chemical Classification, Labelling and Safety Data Sheets) Regulations 2013.

SECTION 1: Identification

1.1. Product identifier

3M™ Engine and Tire Dressing, 38124, 38125, 38126

Product Identification Numbers

60-4550-8411-5

1.2. Recommended use and restrictions on use

Recommended use

Automotive

1.3. Supplier's details

ADDRESS:	3M Malaysia Sdn. Bhd., Level 8, Block F, Oasis Square, No.2, Jalan PJU 1A/7A, Ara Damansara 47301 Petaling, Jaya, Selangor
Telephone:	03-7884 2888
E Mail:	3mmyehsr@mmm.com
Website:	www.3M.com.my

1.4. Emergency telephone number

+60 03-7884 2888

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Skin Sensitizer: Category 1.

Chronic Aquatic Toxicity: Category 3.

2.2. Label elements

Signal word

Warning

Symbols

Exclamation mark |

Pictograms

**Hazard Statements:**

- H317 May cause an allergic skin reaction.
- H412 Harmful to aquatic life with long lasting effects.

Precautionary statements**General:**

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

Prevention:

- P280E Wear protective gloves.

Response:

- P333 + P313 If skin irritation or rash occurs: Get medical attention.

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	C.A.S. No.	% by Wt
Water	7732-18-5	60 - 90
Poly(Dimethylsiloxane)	63148-62-9	10 - 30
Glycerin	56-81-5	3 - 7
Poly(Oxy-1,2-Ethandiy), .Alpha.-(2-Propylheptyl)-.Omega.-Hydroxy-	160875-66-1	< 2
Crotonaldehyde	4170-30-3	< 0.3
1,2-BENZISOTHIAZOLIN-3-ONE	2634-33-5	< 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:

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eye Contact:

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical

attention.

If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

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

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Material will not burn. 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

Formaldehyde
Carbon monoxide
Carbon dioxide

Condition

During Combustion
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. 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 dikes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up

Contain spill. 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 authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. 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. Avoid breathing dust/fume/gas/mist/vapors/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

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	C.A.S. No.	Agency	Limit type	Additional Comments
Crotonaldehyde	4170-30-3	ACGIH	CEIL:0.3 ppm	A3: Confirmed animal carcin., Danger of cutaneous absorption
Crotonaldehyde	4170-30-3	Malaysia OELs	CEIL:0.855 mg/m3(0.3 ppm)	SKIN
Glycerin	56-81-5	Malaysia OELs	TWA(as mist)(8 hours):10 mg/m3	
Particulates not Otherwise Classified (PNOC), Inhalable particulate	56-81-5	Malaysia OELs	TWA (proposed)(respirable particles)(8 hours):3 mg/m3;TWA (proposed)(Inhalable particulate)(8 hours):10 mg/m3	

ACGIH : American Conference of Governmental Industrial Hygienists

CMRG : Chemical Manufacturer's Recommended Guidelines

Malaysia OELs : Malaysia. Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations

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/vapors/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 (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 vapors 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:	Emulsion
Color	Milky White
Odor	Mild Solvent
Odor threshold	<i>No Data Available</i>
pH	7 - 8
Melting point/Freezing point	<i>Not Applicable</i>
Boiling point/Initial boiling point/Boiling range	100 °C
Flash Point	No flash point
Evaporation rate	<i>Not Applicable</i>
Flammability	Not Applicable
Flammable Limits(LEL)	<i>Not Applicable</i>
Flammable Limits(UEL)	<i>Not Applicable</i>
Relative Vapor Density	<i>Not Applicable</i>
Density	1 g/ml
Relative Density	1 [Ref Std:WATER=1]
Water solubility	<i>No Data Available</i>
Solubility- non-water	<i>No Data Available</i>
Partition coefficient: n-octanol/ water	<i>No Data Available</i>
Autoignition temperature	<i>Not Applicable</i>
Decomposition temperature	<i>No Data Available</i>
Kinematic Viscosity	<i>No Data Available</i>
Volatile Organic Compounds	0.1 % weight [Test Method:calculated per CARB title 2]
Volatile Organic Compounds	1 g/l [Test Method:calculated SCAQMD rule 443.1]
Percent volatile	81 %
VOC Less H2O & Exempt Solvents	2 g/l [Test Method:calculated SCAQMD rule 443.1]

Particle Characteristics	<i>Not Applicable</i>
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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 polymerization will not occur.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
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.

Eye Contact:

Sprayed material may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

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:

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
Poly(Dimethylsiloxane)	Dermal	Multiple animal species	LD50 > 2,000 mg/kg
Poly(Dimethylsiloxane)	Ingestion	Rat	LD50 > 5,000 mg/kg
Glycerin	Dermal	Rabbit	LD50 estimated to be > 5,000 mg/kg
Glycerin	Ingestion	Rat	LD50 > 5,000 mg/kg
Poly(Oxy-1,2-Ethanediy), .Alpha.-(2-Propylheptyl)-.Omega.-Hydroxy-	Ingestion	Professional judgement	LD50 estimated to be 2,000 - 5,000 mg/kg
Poly(Oxy-1,2-Ethanediy), .Alpha.-(2-Propylheptyl)-.Omega.-Hydroxy-	Dermal	similar health hazards	LD50 estimated to be 2,000 - 5,000 mg/kg
Crotonaldehyde	Dermal	Guinea pig	LD50 300 mg/kg
Crotonaldehyde	Inhalation-Vapor (4 hours)	Rat	LC50 0.24 mg/l
Crotonaldehyde	Ingestion	Rat	LD50 165 mg/kg
1,2-BENZISOTHIAZOLIN-3-ONE	Dermal	Rat	LD50 > 2,000 mg/kg
1,2-BENZISOTHIAZOLIN-3-ONE	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.21 mg/l
1,2-BENZISOTHIAZOLIN-3-ONE	Ingestion	Rat	LD50 450 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Poly(Dimethylsiloxane)	Human and animal	No significant irritation
Glycerin	Rabbit	No significant irritation
Crotonaldehyde	official classification	Irritant
1,2-BENZISOTHIAZOLIN-3-ONE	Human	Irritant

Serious Eye Damage/Irritation

Name	Species	Value
Poly(Dimethylsiloxane)	Rabbit	No significant irritation
Glycerin	Rabbit	No significant irritation
Poly(Oxy-1,2-Ethanediy), .Alpha.-(2-Propylheptyl)-.Omega.-Hydroxy-	Professional judgement	Moderate irritant
Crotonaldehyde	Rabbit	Corrosive
1,2-BENZISOTHIAZOLIN-3-ONE	Rabbit	Corrosive

Sensitization:

Skin Sensitization

Name	Species	Value
Poly(Dimethylsiloxane)	Human and animal	Not classified
Glycerin	Guinea pig	Not classified
Crotonaldehyde	Mouse	Not classified
1,2-BENZISOTHAZOLIN-3-ONE	Human	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
Poly(Dimethylsiloxane)	In Vitro	Not mutagenic
Poly(Dimethylsiloxane)	In vivo	Not mutagenic
Crotonaldehyde	In Vitro	Some positive data exist, but the data are not sufficient for classification
Crotonaldehyde	In vivo	Mutagenic
1,2-BENZISOTHAZOLIN-3-ONE	In vivo	Not mutagenic
1,2-BENZISOTHAZOLIN-3-ONE	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Poly(Dimethylsiloxane)	Dermal	Mouse	Not carcinogenic
Poly(Dimethylsiloxane)	Ingestion	Mouse	Not carcinogenic
Glycerin	Ingestion	Mouse	Some positive data exist, but the data are not sufficient for classification
Crotonaldehyde	Ingestion	Rat	Carcinogenic
Crotonaldehyde	Inhalation	Rat	Carcinogenic

Reproductive Toxicity**Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test Result	Exposure Duration
Poly(Dimethylsiloxane)	Ingestion	Not classified for development	Rat	NOAEL 3,800 mg/kg/day	during organogenesis
Poly(Dimethylsiloxane)	Dermal	Not classified for development	Rabbit	NOAEL 1,000 mg/kg/day	during organogenesis
Glycerin	Ingestion	Not classified for female reproduction	Rat	NOAEL 2,000 mg/kg/day	2 generation
Glycerin	Ingestion	Not classified for male reproduction	Rat	NOAEL 2,000 mg/kg/day	2 generation
Glycerin	Ingestion	Not classified for development	Rat	NOAEL 2,000 mg/kg/day	2 generation
Crotonaldehyde	Ingestion	Not classified for female reproduction	Rat	NOAEL 10 mg/kg/day	1 generation
Crotonaldehyde	Ingestion	Not classified for male reproduction	Rat	NOAEL 10 mg/kg/day	1 generation
Crotonaldehyde	Ingestion	Not classified for development	Rat	NOAEL 10 mg/kg/day	1 generation
1,2-BENZISOTHAZOLIN-3-ONE	Ingestion	Not classified for female reproduction	Rat	NOAEL 112	2 generation

				mg/kg/day	
1,2-BENZISOTHIAZOLIN-3-ONE	Ingestion	Not classified for male reproduction	Rat	NOAEL 112 mg/kg/day	2 generation
1,2-BENZISOTHIAZOLIN-3-ONE	Ingestion	Not classified for development	Rat	NOAEL 112 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
Poly(Oxy-1,2-Ethanedyl), .Alpha.-(2-Propylheptyl)-.Omega.-Hydroxy-	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Crotonaldehyde	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	
1,2-BENZISOTHIAZOLIN-3-ONE	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
Poly(Dimethylsiloxane)	Ingestion	eyes	Not classified	Rat	NOAEL 10% in the diet	90 days
Poly(Dimethylsiloxane)	Ingestion	respiratory system	Not classified	Rat	NOAEL 1% in the diet	90 days
Poly(Dimethylsiloxane)	Ingestion	gastrointestinal tract	Not classified	Multiple animal species	NOAEL 10% in the diet	90 days
Poly(Dimethylsiloxane)	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 10% in the diet	90 days
Poly(Dimethylsiloxane)	Ingestion	heart	Not classified	Rat	NOAEL 1% in the diet	90 days
Poly(Dimethylsiloxane)	Ingestion	liver	Not classified	Rat	NOAEL 1% in the diet	90 days
Poly(Dimethylsiloxane)	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1% in the diet	90 days
Poly(Dimethylsiloxane)	Ingestion	vascular system	Not classified	Rat	NOAEL 1% in the diet	90 days
Glycerin	Inhalation	respiratory system	Not classified	Rat	NOAEL 3.91 mg/l	14 days
Glycerin	Inhalation	heart	Not classified	Rat	NOAEL 3.91 mg/l	14 days
Glycerin	Inhalation	liver	Not classified	Rat	NOAEL 3.91 mg/l	14 days
Glycerin	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 3.91 mg/l	14 days
Glycerin	Ingestion	endocrine system	Not classified	Rat	NOAEL 10,000 mg/kg/day	2 years
Glycerin	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 10,000 mg/kg/day	2 years
Glycerin	Ingestion	liver	Not classified	Rat	NOAEL 10,000 mg/kg/day	2 years
Glycerin	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 10,000 mg/kg/day	2 years
Crotonaldehyde	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL Not available	113 weeks
Crotonaldehyde	Ingestion	immune system	Not classified	Rat	NOAEL 40	13 weeks

					mg/kg/day	
Crotonaldehyde	Ingestion	respiratory system	Not classified	Rat	NOAEL 40 mg/kg/day	13 weeks
Crotonaldehyde	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 10 mg/kg/day	13 weeks
Crotonaldehyde	Ingestion	heart	Not classified	Rat	NOAEL 40 mg/kg/day	13 weeks
Crotonaldehyde	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 40 mg/kg/day	13 weeks
Crotonaldehyde	Ingestion	nervous system	Not classified	Rat	NOAEL 40 mg/kg/day	13 weeks
Crotonaldehyde	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 40 mg/kg/day	13 weeks
1,2-BENZISOTHIAZOLIN-3-ONE	Ingestion	liver	Not classified	Rat	NOAEL 322 mg/kg/day	90 days
1,2-BENZISOTHIAZOLIN-3-ONE	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 322 mg/kg/day	90 days
1,2-BENZISOTHIAZOLIN-3-ONE	Ingestion	eyes	Not classified	Rat	NOAEL 322 mg/kg/day	90 days
1,2-BENZISOTHIAZOLIN-3-ONE	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 322 mg/kg/day	90 days
1,2-BENZISOTHIAZOLIN-3-ONE	Ingestion	respiratory system	Not classified	Rat	NOAEL 322 mg/kg/day	90 days
1,2-BENZISOTHIAZOLIN-3-ONE	Ingestion	heart	Not classified	Rat	NOAEL 150 mg/kg/day	28 days
1,2-BENZISOTHIAZOLIN-3-ONE	Ingestion	endocrine system	Not classified	Rat	NOAEL 150 mg/kg/day	28 days
1,2-BENZISOTHIAZOLIN-3-ONE	Ingestion	nervous system	Not classified	Rat	NOAEL 150 mg/kg/day	28 days

Aspiration Hazard

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

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

SECTION 12: Ecological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labeling, 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 3: Harmful to aquatic life with long lasting effects

No product test data available

Material	Cas #	Organism	Type	Exposure	Test Endpoint	Test Result
Poly(Dimethylsiloxane)	63148-62-9	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Glycerin	56-81-5	Rainbow Trout	Experimental	96 hours	LC50	54,000 mg/l
Glycerin	56-81-5	Water flea	Experimental	48 hours	LC50	1,955 mg/l
Glycerin	56-81-5	Bacteria	Experimental	16 hours	NOEC	10,000 mg/l
Poly(Oxy-1,2-Ethanediyl), .Alpha .-(2-Propylheptyl)-.Om ega.-Hydroxy-	160875-66-1	Green algae	Analogous Compound	96 hours	ErC50	1.4 mg/l
Poly(Oxy-1,2-Ethanediyl), .Alpha .-(2-Propylheptyl)-.Om ega.-Hydroxy-	160875-66-1	Rainbow Trout	Analogous Compound	96 hours	LC50	5 mg/l
Poly(Oxy-1,2-Ethanediyl), .Alpha .-(2-Propylheptyl)-.Om ega.-Hydroxy-	160875-66-1	Water flea	Analogous Compound	48 hours	EC50	2.5 mg/l
Poly(Oxy-1,2-Ethanediyl), .Alpha .-(2-Propylheptyl)-.Om ega.-Hydroxy-	160875-66-1	Activated sludge	Experimental	3 hours	EC20	180 mg/l
Crotonaldehyde	4170-30-3	Green algae	Experimental	72 hours	ErC50	0.597 mg/l
Crotonaldehyde	4170-30-3	Inland Silverside	Experimental	96 hours	LC50	1.1 mg/l
Crotonaldehyde	4170-30-3	Medaka	Experimental	96 hours	LC50	0.072 mg/l
Crotonaldehyde	4170-30-3	Water flea	Experimental	48 hours	EC50	1 mg/l
Crotonaldehyde	4170-30-3	Green algae	Experimental	72 hours	NOEC	0.042 mg/l
Crotonaldehyde	4170-30-3	Medaka	Experimental	41 days	NOEC	0.025 mg/l
Crotonaldehyde	4170-30-3	Water flea	Experimental	21 days	NOEC	0.02 mg/l
Crotonaldehyde	4170-30-3	Bacteria	Experimental	18 hours	EC10	10.4 mg/l
1,2-BENZISOTHIAZOLIN-3-ONE	2634-33-5	Green algae	Experimental	72 hours	ErC50	0.11 mg/l
1,2-BENZISOTHIAZOLIN-3-ONE	2634-33-5	Rainbow Trout	Experimental	96 hours	LC50	1.6 mg/l
1,2-BENZISOTHIAZOLIN-3-ONE	2634-33-5	Sheepshead Minnow	Experimental	96 hours	LC50	16.7 mg/l
1,2-BENZISOTHIAZOLIN-3-ONE	2634-33-5	Water flea	Experimental	48 hours	EC50	2.9 mg/l
1,2-BENZISOTHIAZOLIN-3-ONE	2634-33-5	Green algae	Experimental	72 hours	NOEC	0.0403 mg/l
1,2-BENZISOTHIAZOLIN-3-ONE	2634-33-5	Activated sludge	Experimental	3 hours	EC50	12.8 mg/l
1,2-BENZISOTHIAZOLIN-3-ONE	2634-33-5	Bobwhite quail	Experimental	14 days	LD50	617 mg per kg of bodyweight
1,2-BENZISOTHIAZOLIN-3-ONE	2634-33-5	Cabbage	Experimental	14 days	EC50	200 mg/kg (Dry Weight)
1,2-BENZISOTHIAZOLIN-3-ONE	2634-33-5	Redworm	Experimental	14 days	LC50	>410.6 mg/kg (Dry Weight)
1,2-BENZISOTHIAZOLIN-3-ONE	2634-33-5	Soil microbes	Experimental	28 days	EC50	>811.5 mg/kg (Dry Weight)

12.2. Persistence and degradability

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Poly(Dimethylsiloxane)	63148-62-9	Data not available or insufficient	N/A	N/A	N/A	N/A
Glycerin	56-81-5	Experimental Biodegradation	14 days	Biological Oxygen Demand	63 %BOD/ThOD	OECD 301C - MITI (I)
Poly(Oxy-1,2-Ethanediy), .Alpha .-(2-Propylheptyl)-.Omega.-Hydroxy-	160875-66-1	Analogous Compound Biodegradation	28 days	Biological Oxygen Demand	>60 %CO2 evolution/THCO2 evolution	OECD 301B - Mod. Sturm or CO2
Poly(Oxy-1,2-Ethanediy), .Alpha .-(2-Propylheptyl)-.Omega.-Hydroxy-	160875-66-1	Analogous Compound Biodegradation		Dissolv. Organic Carbon Deplet	≥90 %removal of DOC	OECD 303A - Simulated Aerobic
Crotonaldehyde	4170-30-3	Experimental Biodegradation	28 days	Biological Oxygen Demand	55 %BOD/ThOD (< 10 day window)	40CFR 796.3200-Closed bottle t
Crotonaldehyde	4170-30-3	Experimental Photolysis		Photolytic half-life (in air)	10.7 hours (t 1/2)	
1,2-BENZISOTHIAZOLIN-3-ONE	2634-33-5	Experimental Biodegradation	28 days	Biological Oxygen Demand	0 %BOD/ThOD	OECD 301C - MITI (I)
1,2-BENZISOTHIAZOLIN-3-ONE	2634-33-5	Experimental Aquatic Inherent Biodegrad.	34 days	Dissolv. Organic Carbon Deplet	17 %removal of DOC	OECD 302A - Modified SCAS Test
1,2-BENZISOTHIAZOLIN-3-ONE	2634-33-5	Experimental Biodegradation	21 days	Dissolv. Organic Carbon Deplet	80 %removal of DOC	OECD 303A - Simulated Aerobic
1,2-BENZISOTHIAZOLIN-3-ONE	2634-33-5	Experimental Biodegradation		Half-life (t 1/2)	4 hours (t 1/2)	
1,2-BENZISOTHIAZOLIN-3-ONE	2634-33-5	Experimental Hydrolysis		Hydrolytic half-life	>1 years (t 1/2)	OECD 111 Hydrolysis func of pH

12.3. Bioaccumulative potential

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Poly(Dimethylsiloxane)	63148-62-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Glycerin	56-81-5	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	-1.75	similar to OECD 107
Poly(Oxy-1,2-Ethanediy), .Alpha .-(2-Propylheptyl)-.Omega.-Hydroxy-	160875-66-1	Modeled Bioconcentration		Bioaccumulation Factor	30	Catalogic™
Poly(Oxy-1,2-Ethanediy), .Alpha .-(2-Propylheptyl)-.Omega.-Hydroxy-	160875-66-1	Modeled Bioconcentration		Log of Octanol/H2O part. coeff	3.4	Episuite™
Crotonaldehyde	4170-30-3	Modeled Bioconcentration		Log of Octanol/H2O part. coeff	0.60	Episuite™
1,2-BENZISOTHIAZOLIN-3-ONE	2634-33-5	Experimental BCF - Fish	56 days	Bioaccumulation Factor	6.62	similar to OECD 305
1,2-BENZISOTHIAZOLIN-3-ONE	2634-33-5	Experimental Bioconcentration		Log of Octanol/H2O part.	1.45	OECD 107 log Kow shke flask mtd

LIN-3-ONE				coeff		
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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**

According to the Environmental Quality (Scheduled Wastes) Regulations 2005, scheduled waste has to be sent to a prescribed premise for recycling, treatment or disposal. Please approach Kualiti Alam for proper schedule waste classification and disposal.

SECTION 14: Transport Information

Not hazardous for transportation.

Marine Transport (IMDG)

UN Number:None assigned.

Proper Shipping Name:None assigned.

Technical Name:None assigned.

Hazard Class/Division:None assigned.

Subsidiary Risk:None assigned.

Packing Group:None assigned.

Limited Quantity:None assigned.

Marine Pollutant: None assigned.

Marine Pollutant Technical Name: None assigned.

Other Dangerous Goods Descriptions:

None assigned.

Air Transport (IATA)

UN Number:None assigned.

Proper Shipping Name:None assigned.

Technical Name:None assigned.

Hazard Class/Division:None assigned.

Subsidiary Risk:None assigned.

Packing Group:None assigned.

Limited Quantity:None assigned.

Marine Pollutant: None assigned.

Marine Pollutant Technical Name: None assigned.

Other Dangerous Goods Descriptions:

None assigned.

Transportation classifications are provided as a customer service. As for shipping, YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. 3M's transportation classifications are based on product formulation, packaging, 3M policies and 3M's understanding of applicable current regulations. 3M does not guarantee the accuracy of this classification information. This information applies only to transportation classification and not the packaging, labeling or marking requirements. The above information is only for reference. If you are shipping by air or ocean, YOU are advised to check & meet applicable regulatory requirements.

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. The components of this product are in compliance with the new substance notification requirements of CEPA. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

SECTION 16: Other information

DISCLAIMER: The information in this Safety Data Sheet (SDS) 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 SDS or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own evaluation to satisfy themselves as to the suitability of the product for their own intended applications. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into Malaysia, you are responsible for all applicable regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration/notification.

3M Malaysia SDSs are available at www.3M.com.my