Safety Data Sheet

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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™ Finesse-it™ Premium Series Polish 315, 77197, 52061

Product Identification Numbers
UU-0103-1635-2

1.2. Recommended use and restrictions on use

Recommended use
Abrasive Product, Liquid Abrasive for paint correction

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
Not classified as hazardous according to Occupational Safety and Health (Chemical Classification, Labelling and Safety Data Sheets) Regulations 2013.

2.2. Label elements
Signal word
Not applicable

Symbols
Not applicable

Pictograms
Not applicable

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	50 - 70
Light Aromatic Hydrocarbons	64742-47-8	10 - 30
Aluminum Oxide	1344-28-1	1 - 15
Hydrotreated Middle Distillates (petroleum)	64742-46-7	3 - 7
Mineral oil	8042-47-5	3 - 7
GLYCERIN	56-81-5	1 - 5
PEG Monooleate	9004-96-0	1 - 5
Polysorbate 80	Trade Secret	1 - 5
Esters Mixture	Trade Secret	0.5 - 1.5
Phosphoric Acid Polymer	Trade Secret	0.5 - 1.5
Benzisothiazolinone	2634-33-5	< 0.1

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:
No need for first aid is anticipated.

Skin Contact:
Wash with soap and water. If signs/symptoms develop, get medical attention.

Eye Contact:
No need for first aid is anticipated.

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

4.2. Most important symptoms and effects, both acute and delayed
No critical symptoms or effects. See Section 11.1, information on toxicological effects.

4.3. Indication of any immediate medical attention and special treatment required
Not applicable.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media
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.

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.

6.2. Environmental precautions
Avoid release to the environment.

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
Avoid breathing of dust created by cutting, sanding, grinding or machining. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Combustible dust may form by action of this product on another material (substrate). Dust generated from the substrate during use of this product may be explosive if in sufficient concentration with an ignition source. Dust deposits should not be allowed to accumulate on surfaces because of the potential for secondary explosions.

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
Aluminum Oxide	1344-28-1	Malaysia OELs	TWA (proposed)(8 hours):10 mg/m3	
Aluminum, insoluble compounds	1344-28-1	ACGIH	TWA(respirable fraction):1 mg/m3	A4: Not class. as human carcin
Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles	1344-28-1	ACGIH	TWA(inhalable particulates):10 mg/m3	
Particles (insoluble or poorly soluble) not otherwise specified, respirable particles	1344-28-1	ACGIH	TWA(respirable particles):3 mg/m3	
DUST, INERT OR NUISANCE	56-81-5	Malaysia OELs	TWA (proposed)(respirable particles)(8 hours):3 mg/m3;TWA (proposed)(Inhalable particulate)(8 hours):10 mg/m3	
GLYCERIN	56-81-5	Malaysia OELs	TWA(as mist)(8 hours):10 mg/m3	

Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles	56-81-5	ACGIH	TWA(inhalable particulates):10 mg/m3	
Particles (insoluble or poorly soluble) not otherwise specified, respirable particles	56-81-5	ACGIH	TWA(respirable particles):3 mg/m3	
OIL MIST, MINERAL	64742-46-7	Malaysia OELs	TWA(as mist)(8 hours):5 mg/m3	
MINERAL OILS, HIGHLY-REFINED OILS	8042-47-5	ACGIH	TWA(inhalable fraction):5 mg/m3	A4: Not class. as human carcin
OIL MIST, MINERAL	8042-47-5	Malaysia OELs	TWA(as mist)(8 hours):5 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. Provide local exhaust at process emission sources to control exposure near the source and to prevent the escape of dust into the work area. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the 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

When only incidental contact is anticipated, alternative glove material(s) may be used. If contact with the glove does occur, remove immediately and replace with a set of new gloves. For incidental contact, gloves made of the following material(s) may be used:Nitrile Rubber

Respiratory protection
None required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Specific Physical Form:	Emulsion
Color	White
Odor	Low Odor

Odor threshold	*No Data Available*
pH	8.2 - 9
Melting point/Freezing point	*No Data Available*
Boiling point/Initial boiling point/Boiling range	95 - 105 ºC
Flash Point	No flash point
Evaporation rate	*No Data Available*
Flammability (solid, gas)	Not Applicable
Flammable Limits(LEL)	*No Data Available*
Flammable Limits(UEL)	*No Data Available*
Vapor Pressure	*No Data Available*
Vapor Density and/or Relative Vapor Density	*No Data Available*
Density	1.08 - 1.16 kg/l
Relative Density	[*Ref Std:*WATER=1]*No Data Available*
Water solubility	*No Data Available*
Solubility- non-water	*No Data Available*
Partition coefficient: n-octanol/ water	*No Data Available*
Autoignition temperature	*No Data Available*
Decomposition temperature	*No Data Available*
Viscosity/Kinematic Viscosity	30,000 - 50,000 mPa-s
Volatile Organic Compounds	19 % weight
Percent volatile	75.4 % weight
VOC Less H2O & Exempt Solvents	579.1 g/l
Molecular weight	*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
Not determined

10.5. Incompatible materials
None known.

10.6. Hazardous decomposition products

Substance	Condition
Hydrocarbons	At Elevated Temperatures
Carbon monoxide	At Elevated Temperatures
Carbon dioxide	At Elevated Temperatures
Oxides of Nitrogen	At Elevated Temperatures

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:
No health effects are expected.

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

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.

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	Inhalation-Vapor(4 hr)		No data available; calculated ATE >50 mg/l
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Aluminum Oxide	Dermal		LD50 estimated to be > 5,000 mg/kg
Light Aromatic Hydrocarbons	Inhalation-Vapor	Professional judgement	LC50 estimated to be 20 - 50 mg/l
Light Aromatic Hydrocarbons	Dermal	Rabbit	LD50 > 5,000 mg/kg
Aluminum Oxide	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 2.3 mg/l
Aluminum Oxide	Ingestion	Rat	LD50 > 5,000 mg/kg
Light Aromatic Hydrocarbons	Ingestion	Rat	LD50 > 5,000 mg/kg
Hydrotreated Middle Distillates (petroleum)	Dermal	Rabbit	LD50 > 2,000 mg/kg
Mineral oil	Dermal	Rabbit	LD50 > 2,000 mg/kg
Hydrotreated Middle Distillates (petroleum)	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.3 mg/l
Hydrotreated Middle Distillates (petroleum)	Ingestion	Rat	LD50 > 5,000 mg/kg
Mineral oil	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
Polysorbate 80	Dermal	Not available	LD50 > 5,000 mg/kg
PEG Monooleate	Dermal	Rabbit	LD50 > 9,800 mg/kg
PEG Monooleate	Ingestion	Rat	LD50 > 2,000 mg/kg
Polysorbate 80	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.1 mg/l
Polysorbate 80	Ingestion	Rat	LD50 20,000 mg/kg
Benzisothiazolinone	Dermal	Rat	LD50 > 2,000 mg/kg
Benzisothiazolinone	Ingestion	Rat	LD50 454 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Aluminum Oxide	Rabbit	No significant irritation
Light Aromatic Hydrocarbons	Rabbit	Mild irritant
Hydrotreated Middle Distillates (petroleum)	Rabbit	No significant irritation
Mineral oil	Rabbit	No significant irritation
GLYCERIN	Rabbit	No significant irritation
PEG Monooleate	Rabbit	Mild irritant
Polysorbate 80	Rabbit	No significant irritation
Benzisothiazolinone	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Aluminum Oxide	Rabbit	No significant irritation
Light Aromatic Hydrocarbons	Rabbit	Mild irritant
Hydrotreated Middle Distillates (petroleum)	Rabbit	Mild irritant
Mineral oil	Rabbit	Mild irritant
GLYCERIN	Rabbit	No significant irritation
PEG Monooleate	Rabbit	Moderate irritant
Polysorbate 80	Rabbit	No significant irritation
Benzisothiazolinone	Rabbit	Corrosive

Sensitization:

Skin Sensitization

Name	Species	Value
Light Aromatic Hydrocarbons	Guinea pig	Not classified
Hydrotreated Middle Distillates (petroleum)	Guinea pig	Not classified
Mineral oil	Guinea pig	Not classified
GLYCERIN	Guinea pig	Not classified
Polysorbate 80	Guinea pig	Not classified
Benzisothiazolinone	Guinea pig	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
Aluminum Oxide	In Vitro	Not mutagenic
Light Aromatic Hydrocarbons	In Vitro	Not mutagenic
Light Aromatic Hydrocarbons	In vivo	Not mutagenic
Hydrotreated Middle Distillates (petroleum)	In Vitro	Not mutagenic
Hydrotreated Middle Distillates (petroleum)	In vivo	Not mutagenic
Mineral oil	In Vitro	Not mutagenic
Polysorbate 80	In Vitro	Not mutagenic
Benzisothiazolinone	In vivo	Not mutagenic
Benzisothiazolinone	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Aluminum Oxide	Inhalation	Rat	Not carcinogenic
Light Aromatic Hydrocarbons	Not Specified	Not available	Not carcinogenic
Mineral oil	Dermal	Mouse	Not carcinogenic
Mineral oil	Inhalation	Multiple animal species	Not carcinogenic
GLYCERIN	Ingestion	Mouse	Some positive data exist, but the data are not sufficient for classification
Polysorbate 80	Ingestion	Rat	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
Light Aromatic Hydrocarbons	Not Specified	Not classified for female reproduction	Rat	NOAEL Not available	1 generation
Light Aromatic Hydrocarbons	Not Specified	Not classified for male reproduction	Rat	NOAEL Not available	1 generation
Light Aromatic Hydrocarbons	Not Specified	Not classified for development	Rat	NOAEL Not available	1 generation
Hydrotreated Middle Distillates (petroleum)	Not Specified	Not classified for female reproduction	Rat	NOAEL Not available	gestation into lactation
Hydrotreated Middle Distillates (petroleum)	Not Specified	Not classified for male reproduction	Rat	NOAEL Not available	28 days
Hydrotreated Middle Distillates (petroleum)	Not Specified	Not classified for development	Rat	NOAEL Not available	during gestation
Mineral oil	Ingestion	Not classified for female reproduction	Rat	NOAEL 4,350 mg/kg/day	13 weeks
Mineral oil	Ingestion	Not classified for male reproduction	Rat	NOAEL 4,350 mg/kg/day	13 weeks
Mineral oil	Ingestion	Not classified for development	Rat	NOAEL 4,350 mg/kg/day	during gestation
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
Polysorbate 80	Ingestion	Not classified for female reproduction	Rat	NOAEL 6,666 mg/kg/day	3 generation
Polysorbate 80	Ingestion	Not classified for male reproduction	Rat	NOAEL 6,666 mg/kg/day	3 generation
Polysorbate 80	Ingestion	Not classified for development	Rat	NOAEL 5,000 mg/kg/day	during organogenesis
Benzisothiazolinone	Ingestion	Not classified for female reproduction	Rat	NOAEL 112 mg/kg/day	2 generation
Benzisothiazolinone	Ingestion	Not classified for male reproduction	Rat	NOAEL 112 mg/kg/day	2 generation
Benzisothiazolinone	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
Benzisothiazolinone	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
Aluminum Oxide	Inhalation	pneumoconiosis	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
Aluminum Oxide	Inhalation	pulmonary fibrosis	Not classified	Human	NOAEL Not available	occupational exposure
Mineral oil	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,381 mg/kg/day	90 days
Mineral oil	Ingestion	liver | immune system	Not classified	Rat	NOAEL 1,336 mg/kg/day	90 days
GLYCERIN	Inhalation	respiratory system | heart | liver | kidney and/or bladder	Not classified	Rat	NOAEL 3.91 mg/l	14 days
GLYCERIN	Ingestion	endocrine system | hematopoietic system | liver | kidney and/or bladder	Not classified	Rat	NOAEL 10,000 mg/kg/day	2 years
Polysorbate 80	Ingestion	heart | endocrine system | gastrointestinal tract | bone, teeth, nails, and/or hair | hematopoietic system | liver | immune system | nervous system | kidney and/or bladder | respiratory system	Not classified	Rat	NOAEL 4,132 mg/kg/day	90 days
Benzisothiazolinone	Ingestion	liver | hematopoietic system | eyes | kidney and/or bladder | respiratory system	Not classified	Rat	NOAEL 322 mg/kg/day	90 days
Benzisothiazolinone	Ingestion	heart | endocrine system | nervous system	Not classified	Rat	NOAEL 150 mg/kg/day	28 days

Aspiration Hazard

Name	Value
Light Aromatic Hydrocarbons	Aspiration hazard
Hydrotreated Middle Distillates (petroleum)	Aspiration hazard
Mineral oil	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 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:
Not acutely toxic to aquatic life by GHS criteria.

Chronic aquatic hazard:
Not chronically toxic to aquatic life by GHS criteria.

No product test data available

Material	Cas #	Organism	Type	Exposure	Test Endpoint	Test Result
Light Aromatic Hydrocarbons	64742-47-8	Green algae	Experimental	72 hours	EL50	>1,000 mg/l
Light Aromatic Hydrocarbons	64742-47-8	Rainbow Trout	Experimental	96 hours	LL50	>1,000 mg/l
Light Aromatic Hydrocarbons	64742-47-8	Water flea	Experimental	48 hours	EL50	>1,000 mg/l
Light Aromatic Hydrocarbons	64742-47-8	Green algae	Experimental	72 hours	NOEL	1,000 mg/l
Aluminum Oxide	1344-28-1	Fish	Experimental	96 hours	LC50	>100 mg/l
Aluminum Oxide	1344-28-1	Green algae	Experimental	72 hours	EC50	>100 mg/l
Aluminum Oxide	1344-28-1	Water flea	Experimental	48 hours	LC50	>100 mg/l
Aluminum Oxide	1344-28-1	Green algae	Experimental	72 hours	NOEC	>100 mg/l
Hydrotreated Middle Distillates (petroleum)	64742-46-7	Green algae	Estimated	72 hours	EL50	>1,000 mg/l
Hydrotreated Middle Distillates (petroleum)	64742-46-7	Rainbow Trout	Estimated	96 hours	LL50	>87,556 mg/l
Hydrotreated Middle Distillates (petroleum)	64742-46-7	Water flea	Estimated	48 hours	LL50	>1,000 mg/l
Hydrotreated Middle Distillates (petroleum)	64742-46-7	Green algae	Estimated	72 hours	NOEL	1,000 mg/l
Hydrotreated Middle Distillates (petroleum)	64742-46-7	Water flea	Estimated	21 days	NOEL	5 mg/l
Mineral oil	8042-47-5	Water flea	Analogous Compound	48 hours	EL50	>100 mg/l
Mineral oil	8042-47-5	Bluegill	Experimental	96 hours	LL50	>100 mg/l
Mineral oil	8042-47-5	Green algae	Analogous	72 hours	NOEL	100 mg/l

			Compound			
Mineral oil	8042-47-5	Water flea	Analogous Compound	21 days	NOEL	>100 mg/l
GLYCERIN	56-81-5	Bacteria	Experimental	16 hours	NOEC	10,000 mg/l
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
PEG Monooleate	9004-96-0		Data not available or insufficient for classification			N/A
Polysorbate 80	Trade Secret	Copepod	Analogous Compound	48 hours	LL50	>10,000 mg/l
Polysorbate 80	Trade Secret	Green algae	Analogous Compound	72 hours	EL50	58.84 mg/l
Polysorbate 80	Trade Secret	Zebra Fish	Analogous Compound	96 hours	LC50	>100 mg/l
Polysorbate 80	Trade Secret	Green algae	Analogous Compound	72 hours	EC10	19.05 mg/l
Polysorbate 80	Trade Secret	Water flea	Analogous Compound	21 days	NOEL	10 mg/l
Benzisothiazolinone	2634-33-5	Green algae	Experimental	72 hours	ErC50	0.11 mg/l
Benzisothiazolinone	2634-33-5	Rainbow Trout	Experimental	96 hours	LC50	1.6 mg/l
Benzisothiazolinone	2634-33-5	Sheepshead Minnow	Experimental	96 hours	LC50	16.7 mg/l
Benzisothiazolinone	2634-33-5	Water flea	Experimental	48 hours	EC50	2.9 mg/l
Benzisothiazolinone	2634-33-5	Green algae	Experimental	72 hours	NOEC	0.0403 mg/l
Benzisothiazolinone	2634-33-5	Activated sludge	Experimental	3 hours	EC50	12.8 mg/l
Benzisothiazolinone	2634-33-5	Bobwhite quail	Experimental	14 days	LD50	617 mg per kg of bodyweight
Benzisothiazolinone	2634-33-5	Cabbage	Experimental	14 days	EC50	200 mg/kg (Dry Weight)
Benzisothiazolinone	2634-33-5	Redworm	Experimental	14 days	LC50	>410.6 mg/kg (Dry Weight)
Benzisothiazolinone	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
Light Aromatic Hydrocarbons	64742-47-8	Estimated Biodegradation	28 days	Biological Oxygen Demand	69 %BOD/ThOD	OECD 301F - Manometric Respiro
Aluminum Oxide	1344-28-1	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Hydrotreated Middle Distillates (petroleum)	64742-46-7	Estimated Biodegradation	28 days	Biological Oxygen Demand	74 %BOD/ThOD	OECD 306(Misc)-Biodegrad. Seaw

Mineral oil	8042-47-5	Experimental Biodegradation	28 days	Carbon dioxide evolution	0 %CO2 evolution/THCO2 evolution	OECD 301B - Mod. Sturm or CO2
GLYCERIN	56-81-5	Experimental Biodegradation	14 days	Biological Oxygen Demand	63 %BOD/ThOD	OECD 301C - MITI (I)
PEG Monooleate	9004-96-0	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Polysorbate 80	Trade Secret	Experimental Biodegradation	28 days	Carbon dioxide evolution	61 %CO2 evolution/THCO2 evolution	ISO 14593 Inorg C Headspace
Benzisothiazolinone	2634-33-5	Experimental Biodegradation	28 days	Biological Oxygen Demand	0 %BOD/ThOD	OECD 301C - MITI (I)
Benzisothiazolinone	2634-33-5	Experimental Aquatic Inherent Biodegrad.	34 days	Dissolv. Organic Carbon Deplet	17 %removal of DOC	OECD 302A - Modified SCAS Test
Benzisothiazolinone	2634-33-5	Experimental Biodegradation	21 days	Dissolv. Organic Carbon Deplet	80 %removal of DOC	OECD 303A - Simulated Aerobic
Benzisothiazolinone	2634-33-5	Experimental Biodegradation		Half-life (t 1/2)	4 hours (t 1/2)	
Benzisothiazolinone	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
Light Aromatic Hydrocarbons	64742-47-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Aluminum Oxide	1344-28-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Hydrotreated Middle Distillates (petroleum)	64742-46-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Mineral oil	8042-47-5	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	-1.76	
PEG Monooleate	9004-96-0	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Polysorbate 80	Trade Secret	Data not available or	N/A	N/A	N/A	N/A

		insufficient for classification				
Benzisothiazolinone	2634-33-5	Experimental BCF - Fish	56 days	Bioaccumulation Factor	6.62	similar to OECD 305
Benzisothiazolinone	2634-33-5	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	1.45	OECD 107 log Kow shke flsk mtd

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 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