



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™ Fastbond™ Foam Adhesive 100, Lavender

Product Identification Numbers

62-4285-6535-2	62-4285-8436-1	62-4285-8530-1	62-4285-9530-0	62-4285-9538-3
62-4285-9932-8	62-4285-9939-3			

1.2. Recommended use and restrictions on use

Recommended use

Adhesive, Industrial use

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

Reproductive Toxicity: Category 1B.

Chronic Aquatic Toxicity: Category 2.

2.2. Label elements

Signal word

Danger

Symbols

Health Hazard |Environment |

Pictograms



Hazard Statements:

- H360 May damage fertility or the unborn child.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention:

- P201 Obtain special instructions before use.
 P273 Avoid release to the environment.
 P281 Use personal protective equipment as required.

Response:

- P308 + P313 IF exposed or concerned: Get medical advice/attention.

Disposal:

- P501 Dispose of contents/container in accordance with applicable local/regional/national/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	40 - 60
Polychloroprene	9010-98-4	35 - 45
Potassium Rosinate	61790-50-9	< 5
Sodium Soap of Disproportionated Rosin	61790-51-0	< 5
Boric Acid	10043-35-3	< 1
Zinc Oxide	1314-13-2	< 1
P-Cresol, Reaction Products with Dicyclopentadiene and Isobutylene	68610-51-5	< 0.5
Potassium Hydroxide	1310-58-3	< 0.5

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 you are concerned, get medical advice.

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

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

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.

5.3. Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build 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 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

For industrial/occupational use only. Not for consumer sale or use. Do not handle until all safety precautions have been read and understood. Do not breathe 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. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (gloves, respirators, etc.) as required.

7.2. Conditions for safe storage including any incompatibilities

Store away from heat. Store away from acids. Store away from oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

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

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
Boric Acid	10043-35-3	ACGIH	TWA(inhalable fraction):2 mg/m ³ ;STEL(inhalable fraction):6 mg/m ³	A4: Not class. as human carcin
Potassium Hydroxide	1310-58-3	ACGIH	CEIL:2 mg/m ³	
Potassium Hydroxide	1310-58-3	Malaysia OELs	CEIL:2 mg/m ³	
DUST, INERT OR NUISANCE	1314-13-2	Malaysia OELs	TWA (proposed)(respirable particles)(8 hours):3 mg/m ³ ;TWA (proposed)(Inhalable particulate)(8 hours):10 mg/m ³	
Zinc Oxide	1314-13-2	ACGIH	TWA(respirable fraction):2 mg/m ³ ;STEL(respirable fraction):10 mg/m ³	
Zinc Oxide	1314-13-2	Malaysia OELs	TWA(as fume)(8 hours):5 mg/m ³ ;TWA(as dust)(8 hours):10 mg/m ³	

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:

Safety Glasses with side shields

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.

Gloves made from the following material(s) are recommended: Neoprene

Nitrile Rubber

Natural Rubber

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
Color	Lavender
Odor	Rubber
Odor threshold	<i>No Data Available</i>
pH	8.4 - 9.3
Melting point/Freezing point	<i>Not Applicable</i>
Boiling point/Initial boiling point/Boiling range	>=100 °C
Flash Point	No flash point
Evaporation rate	1 [Ref Std:WATER=1]
Flammability (solid, gas)	Not Applicable
Flammable Limits(LEL)	<i>Not Applicable</i>
Flammable Limits(UEL)	<i>Not Applicable</i>
Vapor Pressure	2,333.1 Pa [@ 20 °C]
Vapor Density and/or Relative Vapor Density	1.1 [Ref Std: AIR=1]
Density	1.1 g/ml
Relative Density	1.1 [Ref Std:WATER=1]
Water solubility	Complete
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>
Viscosity/Kinematic Viscosity	15 - 40 mPa-s [@ 23 °C]
Volatile Organic Compounds	<i>No Data Available</i>
Percent volatile	<i>No Data Available</i>
VOC Less H ₂ O & Exempt Solvents	<=20 g/l [Test Method:calculated SCAQMD rule 443.1]
Solids Content	40 - 50 %

Nanoparticles

This material does not contain nanoparticles.

SECTION 10: Stability and reactivity

10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Heat

10.5. Incompatible materials

Strong acids
Strong oxidizing agents

10.6. Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
Carbon monoxide	Not Specified
Carbon dioxide	Not Specified
Hydrogen Chloride	Not Specified
Oxides of Nitrogen	Not Specified

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.

Skin Contact:

Contact with the skin during product use is not expected to result in significant irritation.

Eye Contact:

Contact with the eyes during product use is not expected to result in significant irritation.

Ingestion:

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

May cause additional health effects (see below).

Additional Health Effects:

Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

Toxicological Data

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

Acute Toxicity

Name	Route	Species	Value
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Polychloroprene	Dermal		LD50 estimated to be > 5,000 mg/kg
Polychloroprene	Ingestion	Rat	LD50 > 20,000 mg/kg
Potassium Rosinate	Dermal	Rat	LD50 > 2,000 mg/kg
Potassium Rosinate	Ingestion	Rat	LD50 > 2,000 mg/kg

Sodium Soap of Disproportionated Rosin	Dermal	Rat	LD50 > 2,000 mg/kg
Sodium Soap of Disproportionated Rosin	Ingestion	Rat	LD50 > 2,000 mg/kg
Boric Acid	Dermal	Rabbit	LD50 > 2,000 mg/kg
Boric Acid	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 2.12 mg/l
Boric Acid	Ingestion	Rat	LD50 3,450 mg/kg
Zinc Oxide	Dermal		LD50 estimated to be > 5,000 mg/kg
Zinc Oxide	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.7 mg/l
Zinc Oxide	Ingestion	Rat	LD50 > 5,000 mg/kg
P-Cresol, Reaction Products with Dicyclopentadiene and Isobutylene	Dermal	Rat	LD50 > 2,000 mg/kg
P-Cresol, Reaction Products with Dicyclopentadiene and Isobutylene	Ingestion	Rat	LD50 > 5,000 mg/kg
Potassium Hydroxide	Dermal	Rabbit	LD50 > 1,260 mg/kg
Potassium Hydroxide	Ingestion	Rat	LD50 273 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Polychloroprene	Human	No significant irritation
Potassium Rosinate	Rabbit	No significant irritation
Sodium Soap of Disproportionated Rosin	Rabbit	No significant irritation
Boric Acid	Rabbit	No significant irritation
Zinc Oxide	Human and animal	No significant irritation
P-Cresol, Reaction Products with Dicyclopentadiene and Isobutylene	Rabbit	No significant irritation
Potassium Hydroxide	Rabbit	Corrosive

Serious Eye Damage/Irritation

Name	Species	Value
Polychloroprene	Professional judgement	No significant irritation
Potassium Rosinate	Rabbit	Moderate irritant
Sodium Soap of Disproportionated Rosin	Rabbit	Moderate irritant
Boric Acid	Rabbit	Mild irritant
Zinc Oxide	Rabbit	Mild irritant
P-Cresol, Reaction Products with Dicyclopentadiene and Isobutylene	Rabbit	No significant irritation
Potassium Hydroxide	Rabbit	Corrosive

Sensitization:

Skin Sensitization

Name	Species	Value
Potassium Rosinate	Mouse	Not classified
Sodium Soap of Disproportionated Rosin	Mouse	Not classified
Boric Acid	Guinea pig	Not classified
Zinc Oxide	Guinea pig	Not classified
P-Cresol, Reaction Products with Dicyclopentadiene and Isobutylene	Guinea pig	Not classified

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
Boric Acid	In Vitro	Not mutagenic
Boric Acid	In vivo	Not mutagenic
Zinc Oxide	In Vitro	Some positive data exist, but the data are not sufficient for classification
Zinc Oxide	In vivo	Some positive data exist, but the data are not sufficient for classification
P-Cresol, Reaction Products with Dicyclopentadiene and Isobutylene	In Vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Boric Acid	Ingestion	Mouse	Not carcinogenic

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

Name	Route	Value	Species	Test Result	Exposure Duration
Boric Acid	Ingestion	Toxic to female reproduction	Rat	NOAEL 100 mg/kg/day	3 generation
Boric Acid	Ingestion	Toxic to male reproduction	Rat	NOAEL 100 mg/kg/day	3 generation
Boric Acid	Ingestion	Toxic to development	Rabbit	NOAEL 125 mg/kg/day	during organogenesis
Zinc Oxide	Ingestion	Not classified for reproduction and/or development	Multiple animal species	NOAEL 125 mg/kg/day	premating & during gestation
P-Cresol, Reaction Products with Dicyclopentadiene and Isobutylene	Ingestion	Not classified for development	Rabbit	NOAEL 15 mg/kg/day	during gestation

Target Organ(s)**Specific Target Organ Toxicity - single exposure**

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Potassium Rosinate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Sodium Soap of Disproportionated Rosin	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Boric Acid	Inhalation	respiratory irritation	Not classified	Human	NOAEL Not available	occupational exposure
Boric Acid	Ingestion	nervous system	Not classified	Rat	NOAEL 2,000 mg/kg	
Potassium Hydroxide	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Boric Acid	Ingestion	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 100 mg/kg/day	2 years
Boric Acid	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 400 mg/kg/day	45 days
Boric Acid	Ingestion	heart endocrine system bone, teeth, nails, and/or hair liver nervous system respiratory	Not classified	Rat	NOAEL 334 mg/kg/day	2 years

		system				
Zinc Oxide	Ingestion	nervous system	Not classified	Rat	NOAEL 600 mg/kg/day	10 days
Zinc Oxide	Ingestion	endocrine system hematopoietic system kidney and/or bladder	Not classified	Other	NOAEL 500 mg/kg/day	6 months
P-Cresol, Reaction Products with Dicyclopentadiene and Isobutylene	Ingestion	endocrine system blood liver eyes	Not classified	Rat	NOAEL 289 mg/kg/day	90 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 2: Toxic to aquatic life with long lasting effects

No product test data available

Material	Cas #	Organism	Type	Exposure	Test Endpoint	Test Result
Polychloroprene	9010-98-4		Data not available or insufficient for classification			N/A
Potassium Rosinate	61790-50-9	Activated sludge	Estimated	3 hours	EC10	>10,000 mg/l
Potassium Rosinate	61790-50-9	Fathead Minnow	Estimated	96 hours	LC50	1.7 mg/l
Potassium Rosinate	61790-50-9	Green Algae	Estimated	72 hours	EC50	39.6 mg/l
Potassium Rosinate	61790-50-9	Water flea	Estimated	48 hours	EC50	1.6 mg/l
Sodium Soap of Disproportionated Rosin	61790-51-0	Activated sludge	Estimated	3 hours	EC10	>10,000 mg/l
Sodium Soap of Disproportionated Rosin	61790-51-0	Water flea	Estimated	48 hours	EC50	1.6 mg/l

Sodium Soap of Disproportionated Rosin	61790-51-0	Golden Orfe	Experimental	96 hours	LC50	3.34 mg/l
Sodium Soap of Disproportionated Rosin	61790-51-0	Green Algae	Experimental	72 hours	EC50	18.3 mg/l
Boric Acid	10043-35-3	Crustacea	Estimated	96 hours	LC50	366 mg/l
Boric Acid	10043-35-3	Fathead Minnow	Estimated	96 hours	LC50	456 mg/l
Boric Acid	10043-35-3	Crustacea other	Experimental	48 hours	LC50	744 mg/l
Boric Acid	10043-35-3	Diatom	Experimental	96 hours	EC50	378 mg/l
Boric Acid	10043-35-3	Green algae	Experimental	72 hours	EC50	300 mg/l
Boric Acid	10043-35-3	Crustacea other	Experimental	42 days	NOEC	37.8 mg/l
Boric Acid	10043-35-3	Green Algae	Experimental	72 hours	NOEC	100 mg/l
Boric Acid	10043-35-3	Mysid Shrimp	Experimental	28 days	NOEC	95 mg/l
Boric Acid	10043-35-3	Zebra Fish	Experimental	34 days	EC10	39.5 mg/l
Boric Acid	10043-35-3		Experimental	14 days	LC50	2,705 mg/kg (Dry Weight)
Boric Acid	10043-35-3	Activated sludge	Experimental	3 hours	NOEC	100 mg/l
Boric Acid	10043-35-3	Bobwhite Quail	Experimental	5 days	LD50	>3,014 mg per kg of bodyweight
Zinc Oxide	1314-13-2	Activated sludge	Estimated	3 hours	EC50	6.5 mg/l
Zinc Oxide	1314-13-2	Green Algae	Estimated	72 hours	EC50	0.052 mg/l
Zinc Oxide	1314-13-2	Rainbow Trout	Estimated	96 hours	LC50	0.21 mg/l
Zinc Oxide	1314-13-2	Water flea	Estimated	48 hours	EC50	0.07 mg/l
Zinc Oxide	1314-13-2	Green Algae	Estimated	72 hours	NOEC	0.006 mg/l
Zinc Oxide	1314-13-2	Water flea	Estimated	7 days	NOEC	0.02 mg/l
P-Cresol, Reaction Products with Dicyclopentadiene and Isobutylene	68610-51-5	Bacteria	Experimental	17 hours	NOEC	150.9 mg/l
P-Cresol, Reaction Products with Dicyclopentadiene and Isobutylene	68610-51-5	Green Algae	Experimental	72 hours	EC50	>100 mg/l
P-Cresol, Reaction Products with Dicyclopentadiene and Isobutylene	68610-51-5	Rainbow Trout	Experimental	96 hours	LC50	>100 mg/l
P-Cresol, Reaction Products with Dicyclopentadiene and Isobutylene	68610-51-5	Water flea	Experimental	48 hours	EC50	>100 mg/l

Isobutylene						
P-Cresol, Reaction Products with Dicyclopentadiene and Isobutylene	68610-51-5	Fathead Minnow	Experimental	34 days	NOEL	100 mg/l
P-Cresol, Reaction Products with Dicyclopentadiene and Isobutylene	68610-51-5	Green algae	Experimental	72 hours	NOEC	100 mg/l
P-Cresol, Reaction Products with Dicyclopentadiene and Isobutylene	68610-51-5	Water flea	Experimental	21 days	EC10	<1 mg/l
Potassium Hydroxide	1310-58-3		Data not available or insufficient for classification			N/A

12.2. Persistence and degradability

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Polychloroprene	9010-98-4	Data not available - insufficient	N/A	N/A	N/A	N/A
Potassium Rosinate	61790-50-9	Estimated Biodegradation	28 days	Carbon dioxide evolution	80 % weight	OECD 301B - Mod. Sturm or CO2
Sodium Soap of Disproportionated Rosin	61790-51-0	Estimated Biodegradation	28 days	Biological Oxygen Demand	71 %BOD/CO D	OECD 301D - Closed Bottle Test
Boric Acid	10043-35-3	Data not available - insufficient	N/A	N/A	N/A	N/A
Zinc Oxide	1314-13-2	Data not available - insufficient	N/A	N/A	N/A	N/A
P-Cresol, Reaction Products with Dicyclopentadiene and Isobutylene	68610-51-5	Experimental Biodegradation	28 days	Carbon dioxide evolution	1 % weight	OECD 301B - Mod. Sturm or CO2
Potassium Hydroxide	1310-58-3	Data not available - insufficient	N/A	N/A	N/A	N/A

12.3. Bioaccumulative potential

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
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Polychloroprene	9010-98-4	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Potassium Rosinate	61790-50-9	Estimated BCF - Rainbow Trout	20 days	Bioaccumulation Factor	≤129	Non-standard method
Sodium Soap of Disproportionated Rosin	61790-51-0	Estimated BCF - Rainbow Trout	20 days	Bioaccumulation Factor	≤129	Non-standard method
Boric Acid	10043-35-3	Experimental BCF - Salmon	60 days	Bioaccumulation Factor	<0.1	
Boric Acid	10043-35-3	Experimental Bioconcentration		Log of Octanol/H ₂ O part. coeff	0.18	
Zinc Oxide	1314-13-2	Experimental BCF - Carp	56 days	Bioaccumulation Factor	≤217	OECD 305E-Bioaccum FI-thru fis
P-Cresol, Reaction Products with Dicyclopentadiene and Isobutylene	68610-51-5	Estimated Bioconcentration		Bioaccumulation Factor	≤55	Est: Bioconcentration factor
Potassium Hydroxide	1310-58-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

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

Marine Transport (IMDG)

UN Number:UN3082

Proper Shipping Name:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Technical Name:Propanoic acid, 3- (dodecyl)-, oxybis (2,1 etanodiyloxy- 2,1 etanodiy) ester

Hazard Class/Division:9

Subsidiary Risk:None assigned.

Packing Group:III

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:UN3082

Proper Shipping Name:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Technical Name:Propanoic acid, 3- (dodecyltio)-, oxybis (2,1 etanodiyloxy- 2,1 etanodiy) ester

Hazard Class/Division:9

Subsidiary Risk:None assigned.

Packing Group:III

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 Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

SECTION 16: Other information

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