

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.

IDENTIFICATION

1.1. Product identifier

3M™Scotch-Weld™ Epoxy Adhesive DP100FR Cream

Product Identification Numbers

62-3531-1431-7 62-3531-1436-6 62-3531-1430-9 62-3531-1435-8 62-3531-3530-4

62-3531-3830-8

1.2. Recommended use and restrictions on use

Recommended use

Structural adhesive

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

03-7884 2888 **Telephone:**

E Mail: 3mmyehsr@mmm.com Website: www.3M.com.my

1.4. Emergency telephone number

+60 03-7884 2888

This product is a kit or a multipart product which consists of multiple, independently packaged components. An SDS for each of these components is included. Please do not separate the component SDSs from this cover page. The document numbers of the SDSs for components of this product are:

19-8269-3, 19-8211-5

TRANSPORT INFORMATION

This product is a kit that consists of two or more different regulated materials packed in the same outer packaging (ship unit). The transportation classifications of the individual components appear in Section 14 of the attached SDSs.

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

3MTMScotch-WeldTM Epoxy Adhesive DP100FR Cream

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.

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



Safety Data Sheet

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Document Group: 19-8211-5 **Version Number:** 6.00

Issue Date: 18/05/2021 **Supercedes Date:** 11/03/2018

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

3MTM Scotch-WeldTM Epoxy Adhesive DP100FR Cream, Part A

1.2. Recommended use and restrictions on use

Recommended use

Structural adhesive, Structural adhesive

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

Acute Toxicity (oral): Category 4. Skin Corrosion/Irritation: Category 2. Serious Eye Damage/Irritation: Category 2.

Skin Sensitizer: Category 1. Carcinogenicity: Category 1B.

Chronic Aquatic Toxicity: Category 3.

2.2. Label elements

Signal word

Danger

Symbols

Exclamation mark | Health Hazard |

Pictograms





Hazard Statements:

H302
 H315
 H315
 Causes skin irritation.
 H319
 Causes serious eye irritation.
 H317
 May cause an allergic skin reaction.

H350 May cause cancer.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention:

P201 Obtain special instructions before use.

P280E Wear protective gloves.

P281 Use personal protective equipment as required.

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

Disposal:

P501 Dispose of contents/container in accordance with applicable

local/regional/national/international regulations.

2.3. Other hazards

All or part of the classification is based on toxicity test data.

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	C.A.S. No.	% by Wt
Mercaptan Polymer	72244-98-5	65 - 75
Ammonium Polyphosphate	68333-79-9	10 - 30
2,4,6-tris((Dimethylamino)Methyl)Phenol	90-72-2	5 - 10
Amorphous Silica	67762-90-7	1 - 5
bis((Dimethylamino)Methyl)Phenol	71074-89-0	0.1 - 5
Melamine	108-78-1	< 0.5

Any remaining components do not contribute to the hazards of this material.

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.

3MTM Scotch-WeldTM Epoxy Adhesive DP100FR Cream, Part A

Skin Contact:

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

Eve 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

<u>Substance</u>	<u>Condition</u>
Aldehydes	During Combustion
Hydrocarbons	During Combustion
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Ketones	During Combustion
Ammonia	During Combustion
Oxides of Nitrogen	During Combustion
Oxides of Sulfur	During Combustion
Toxic Vapor, Gas, Particulate	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. 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 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

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. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. 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 oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

No occupational exposure limit values exist for any of the components listed in Section 3 of this SDS.

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:

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

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

Information on basic physical and chemical propertie	es			
Physical state	Liquid			
Specific Physical Form:	Viscous Liquid			
Color	White			
Odor	Strong Mercaptan			
Odor threshold	No Data Available			
рН	Not Applicable			
Melting point/Freezing point	Not Applicable			
Boiling point/Initial boiling point/Boiling range	No Data Available			
Flash Point	> 93.9 °C [Test Method:Closed Cup]			
Evaporation rate	Negligible			
Flammability (solid, gas)	Not Applicable			
Flammable Limits(LEL)	No Data Available			
Flammable Limits(UEL)	No Data Available			
Vapor Pressure	<=186,158.4 Pa [@ 55 °C]			
Vapor Density and/or Relative Vapor Density	Not Applicable			
Density	1.3 g/ml [Ref Std:WATER=1]			
Relative Density	1.3 [Ref Std:WATER=1]			
Water solubility	Nil			
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	35,000 mPa-s - 85,000 mPa-s [Test Method:Brookfield]			
Volatile Organic Compounds				
Percent volatile				
VOC Less H2O & Exempt Solvents	0 g/l [Test Method:calculated SCAQMD rule 443.1]			
	[Details: when used as intended with Part B]			
VOC Less H2O & Exempt Solvents	0 g/l [Test Method:calculated SCAQMD rule 443.1] [Details:as			
	supplied]			
VOC Less H2O & Exempt Solvents	0 % [Test Method:calculated SCAQMD rule 443.1]			
	[Details: when used as intended with Part B]			
Molecular weight	No Data Available			

Nanoparticles

This material contains 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

3M™ Scotch-Weld™ Epoxy Adhesive DP100FR Cream, Part A

Heat is generated during cure. Do not cure a mass larger than 50 grams in a confined space to prevent a premature exothermic reaction with production of intense heat and smoke.

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

Substance

None known.

Condition

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.

Skin Contact:

Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Eve Contact:

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

Ingestion:

May be harmful if swallowed.

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	Ingestion		No data available; calculated ATE2,000 - 5,000 mg/kg		
Mercaptan Polymer	Dermal	Rabbit	LD50 > 10,200 mg/kg		
Mercaptan Polymer	Ingestion	Rat	LD50 2,600 mg/kg		
Ammonium Polyphosphate	Dermal	Rat	LD50 > 5,000 mg/kg		
Ammonium Polyphosphate	Inhalation-	Rat	LC50 > 4.85 mg/l		
	Dust/Mist				
	(4 hours)				
Ammonium Polyphosphate	Ingestion	Rat	LD50 > 300, < 2,000 mg/kg		
2,4,6-tris((Dimethylamino)Methyl)Phenol	Dermal	Rat	LD50 1,280 mg/kg		
2,4,6-tris((Dimethylamino)Methyl)Phenol	Ingestion	Rat	LD50 1,000 mg/kg		
Amorphous Silica	Dermal	Rabbit	LD50 > 5,000 mg/kg		
Amorphous Silica	Inhalation-	Rat	LC50 > 0.691 mg/l		
	Dust/Mist				
	(4 hours)				
Amorphous Silica	Ingestion	Rat	LD50 > 5,110 mg/kg		
bis((Dimethylamino)Methyl)Phenol	Ingestion		LD50 estimated to be 300 - 2,000 mg/kg		
Melamine	Dermal	Rabbit	LD50 > 1,000 mg/kg		
Melamine	Ingestion	Rat	LD50 3,161 mg/kg		

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Overall product	In vitro	Irritant
	data	
Mercaptan Polymer	Rabbit	No significant irritation
Ammonium Polyphosphate	In vitro	No significant irritation
	data	
2,4,6-tris((Dimethylamino)Methyl)Phenol	Rabbit	Corrosive
Amorphous Silica	Rabbit	No significant irritation
bis((Dimethylamino)Methyl)Phenol	similar	Corrosive
	compoun	
	ds	
Melamine	Guinea	No significant irritation
	pig	

Serious Eye Damage/Irritation

Name	Species	Value
Overall product	In vitro	Severe irritant
	data	
Mercaptan Polymer	Rabbit	Mild irritant
Ammonium Polyphosphate	Rabbit	Moderate irritant
2,4,6-tris((Dimethylamino)Methyl)Phenol	Rabbit	Corrosive
Amorphous Silica	Rabbit	No significant irritation
bis((Dimethylamino)Methyl)Phenol	similar	Corrosive
	compoun	
	ds	
Melamine	Rabbit	No significant irritation

Sensitization:

Skin Sensitization

Skin Sensitization		
Name	Species	Value
	•	
Mercaptan Polymer	Mouse	Sensitizing
Ammonium Polyphosphate	similar	Not classified
	compoun	
	ds	
2,4,6-tris((Dimethylamino)Methyl)Phenol	Guinea	Not classified
	pig	
Amorphous Silica	Human	Not classified

3MTM Scotch-WeldTM Epoxy Adhesive DP100FR Cream, Part A

	and animal	
Melamine	Guinea	Not classified
	pig	

Respiratory Sensitization

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

Germ Cell Mutagenicity

Germ Cen Mutagemeny			
Name	Route	Value	
Mercaptan Polymer	In Vitro	Not mutagenic	
2.4.6-tris((Dimethylamino)Methyl)Phenol	In Vitro	Not mutagenic	
		8	
Amorphous Silica	In Vitro	Not mutagenic	
Melamine	In Vitro	Not mutagenic	
Melamine	In vivo	Not mutagenic	

Carcinogenicity

Name	Route	Species	Value
Amorphous Silica	Not	Mouse	Some positive data exist, but the data are not
	Specified		sufficient for classification
Melamine	Ingestion	Multiple	Carcinogenic
		animal	
		species	

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
Amorphous Silica	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Amorphous Silica	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Amorphous Silica	Ingestion	Not classified for development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis
Melamine	Ingestion	Not classified for development	Rat	NOAEL 1,060 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
Ammonium Polyphosphate	Inhalation	respiratory irritation	Some positive data exist, but the	similar	NOAEL Not	
			data are not sufficient for	health	available	
			classification	hazards		
2,4,6-	Inhalation	respiratory irritation	Some positive data exist, but the		NOAEL Not	
tris((Dimethylamino)Meth			data are not sufficient for		available	
yl)Phenol			classification			

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Mercaptan Polymer	Ingestion	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 75 mg/kg/day	90 days
Mercaptan Polymer	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 250 mg/kg/day	90 days
Mercaptan Polymer	Ingestion	endocrine system	Not classified	Rat	NOAEL	90 days

		heart skin immune system nervous system eyes kidney and/or bladder respiratory system vascular system			1,000 mg/kg/day	
2,4,6- tris((Dimethylamino)Meth yl)Phenol	Dermal	skin liver nervous system auditory system hematopoietic system eyes	Not classified	Rat	NOAEL 125 mg/kg/day	28 days
Amorphous Silica	Inhalation	respiratory system silicosis	Not classified	Human	NOAEL Not available	occupational exposure
Melamine	Ingestion	kidney and/or bladder	May cause damage to organs though prolonged or repeated exposure	Rat	LOAEL 63 mg/kg/day	13 weeks

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 3: Harmful 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
Mercaptan Polymer	72244-98-5	Activated sludge	Experimental	3 hours	EC50	>1,000 mg/l
Mercaptan Polymer	72244-98-5	Green algae	Experimental	72 hours	EC50	>733 mg/l
Mercaptan Polymer	72244-98-5	Water flea	Experimental	48 hours	EC50	12 mg/l
Mercaptan Polymer	72244-98-5	Zebra Fish	Experimental	96 hours	LC50	87 mg/l
Mercaptan Polymer	72244-98-5	Green algae	Experimental	72 hours	NOEC	338 mg/l
Mercaptan Polymer	72244-98-5	Water flea	Experimental	21 days	NOEC	3.5 mg/l
Ammonium Polyphosphate	68333-79-9	Activated sludge	Estimated	3 hours	EC50	>100 mg/l
Ammonium	68333-79-9	Green Algae	Estimated	72 hours	EC50	>97.1 mg/l

Polyphosphate						
Ammonium Polyphosphate	68333-79-9	Rainbow Trout	Estimated	96 hours	LC50	>100 mg/l
Ammonium Polyphosphate	68333-79-9	Water flea	Estimated	48 hours	EC50	>100 mg/l
Ammonium Polyphosphate	68333-79-9	Green Algae	Estimated	72 hours	NOEC	97.1 mg/l
2,4,6- tris((Dimethyla mino)Methyl)P henol	90-72-2		Experimental	96 hours	LC50	718 mg/l
2,4,6- tris((Dimethyla mino)Methyl)P henol	90-72-2	Common Carp	Experimental	96 hours	LC50	>100 mg/l
2,4,6- tris((Dimethyla mino)Methyl)P henol	90-72-2	Green algae	Experimental	72 hours	EC50	46.7 mg/l
2,4,6- tris((Dimethyla mino)Methyl)P henol	90-72-2	Water flea	Experimental	48 hours	EC50	>100 mg/l
2,4,6- tris((Dimethyla mino)Methyl)P henol	90-72-2	Green algae	Experimental	72 hours	NOEC	6.44 mg/l
Amorphous Silica	67762-90-7		Data not available or insufficient for classification			N/A
bis((Dimethyla mino)Methyl)P henol	71074-89-0		Data not available or insufficient for classification			NA
Melamine	108-78-1	Bacteria	Experimental	30 minutes	EC50	>10,000 mg/l
Melamine	108-78-1	Green Algae	Experimental	96 hours	EC50	325 mg/l
Melamine	108-78-1	Guppy	Experimental	96 hours	LC50	>3,000 mg/l
Melamine	108-78-1	Water flea	Experimental	48 hours	EC50	48 mg/l
Melamine	108-78-1	Fathead Minnow	Experimental	36 days	NOEC	>=5.1 mg/l
Melamine	108-78-1	Green Algae	Experimental	96 hours	NOEC	98 mg/l
Melamine	108-78-1	Water flea	Experimental	21 days	NOEC	>=11 mg/l

12.2. Persistence and degradability

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Mercaptan	72244-98-5	1 1	,	Carbon dioxide		OECD 301B - Mod.
Polymer		Biodegradation		evolution	evolution/THC	Sturm or CO2
					O2 evolution	
Ammonium	68333-79-9	Data not			N/A	
Polyphosphate		availbl-				
		insufficient				
2,4,6-	90-72-2	Experimental	28 days	Biological	4 %	OECD 301D - Closed

tris((Dimethyla		Biodegradation		Oxygen	BOD/ThBOD	Bottle Test
mino)Methyl)P				Demand		
henol						
Amorphous	67762-90-7	Data not			N/A	
Silica		availbl-				
		insufficient				
bis((Dimethyla	71074-89-0	Modeled	28 days	Biological	41 %CO2	Catalogic TM
mino)Methyl)P		Biodegradation	-	Oxygen	evolution/THC	
henol				Demand	O2 evolution	
Melamine	108-78-1	Experimental	14 days	Biological	0 %	OECD 301C - MITI (I)
		Biodegradation	-	Oxygen	BOD/ThBOD	
				Demand		

12.3. Bioaccumulative potential

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Mercaptan Polymer	72244-98-5	Estimated Bioconcentrati on		Log of Octanol/H2O part. coeff	>1.2	Est: Octanol-water part. coeff
Ammonium Polyphosphate	68333-79-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
2,4,6- tris((Dimethyla mino)Methyl)P henol	90-72-2	Experimental Bioconcentrati on		Log of Octanol/H2O part. coeff	-0.66	830.7550 Part.Coef Shake Flask
Amorphous Silica	67762-90-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
bis((Dimethyla mino)Methyl)P henol	71074-89-0	Modeled Bioconcentrati on		Log of Octanol/H2O part. coeff	-2.34	ACD/Labs ChemSketch TM
Melamine	108-78-1	Experimental BCF-Carp	42 days	Bioaccumulatio n Factor	<3.8	OECD 305E-Bioaccum Fl-thru fis

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 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. 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 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

3M TM Scotch-Weld TM Epoxy Adhesive DP100FR Cream, Part	Part A	Cream.	DP100FR	Adhesive	ⁱ Epoxy	Scotch-Weld TM	$3M^{TM}$
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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



Safety Data Sheet

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Issue Date: 15/05/2021 **Supercedes Date:** 25/07/2019

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[™] Scotch-Weld[™] Epoxy Adhesive DP100FR Off-White, Part B

1.2. Recommended use and restrictions on use

Recommended use

Adhesive, Structural adhesive

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

Serious Eve Damage/Irritation: Category 2.

Skin Sensitizer: Category 1. Carcinogenicity: Category 1B.

Chronic Aquatic Toxicity: Category 2.

2.2. Label elements

Signal word

Danger

Symbols

Exclamation mark | Health Hazard | Environment |

Pictograms



Hazard Statements:

H319 Causes serious eye irritation. H317 May cause an allergic skin reaction.

H350 May cause cancer.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention:

P201 Obtain special instructions before use.
P273 Avoid release to the environment.

P280E Wear protective gloves.

P281 Use personal protective equipment as required.

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

Disposal:

P501 Dispose of contents/container in accordance with applicable

local/regional/national/international regulations.

2.3. Other hazards

Although titanium dioxide is classified as a carcinogen, exposures associated with this health effect are not expected during normal, intended use of this product.

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	C.A.S. No.	% by Wt
Epoxy Resin	25068-38-6	70 - 80
Ammonium Polyphosphate	68333-79-9	10 - 30
Titanium Dioxide	13463-67-7	1 - 5
Melamine	108-78-1	<= 0.5

Any remaining components do not contribute to the hazards of this material.

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:

3M™ Scotch-Weld™ Epoxy Adhesive DP100FR Off-White, Part B

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

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

<u>Substance</u>	<u>Condition</u>
Aldehydes	During Combustion
Hydrocarbons	During Combustion
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Hydrogen Chloride	During Combustion
Ketones	During Combustion
Ammonia	During Combustion
Oxides of Nitrogen	During Combustion
Toxic Vapor, Gas, Particulate	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. 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 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

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. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. 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
Titanium Dio	xide	13463-67-7	ACGIH	TWA:10 mg/m3	A4: Not class. as human
					carcin
Titanium Dio	xide	13463-67-7	Malaysia OELs	TWA(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:

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

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:	Viscous Liquid
Color	White
Odor	Epoxy
Odor threshold	No Data Available
рН	No Data Available
Melting point/Freezing point	Not Applicable
Boiling point/Initial boiling point/Boiling range	No Data Available
Flash Point	> 93.9 °C [@ 101,325 Pa] [Test Method:Closed Cup]
Evaporation rate	Negligible
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	1.2 g/ml [Ref Std:WATER=1]
Relative Density	1.2 [Ref Std:WATER=1]
Water solubility	Negligible
Solubility- non-water	No Data Available
Partition coefficient: n-octanol/ water	No Data Available
Autoignition temperature	No Data Available
Decomposition temperature	No Data Available
Viscosity/Kinematic Viscosity	60,000 - 80,000 mPa-s [<i>Test Method</i> :Brookfield]
Volatile Organic Compounds	
Percent volatile	
VOC Less H2O & Exempt Solvents	0 g/l [Test Method:calculated SCAQMD rule 443.1]
	[Details: when used as intended with Part A]
VOC Less H2O & Exempt Solvents	0 g/l [Test Method:calculated SCAQMD rule 443.1] [Details:as
	supplied]
VOC Less H2O & Exempt Solvents	0 % [Test Method:calculated SCAQMD rule 443.1]
	[Details: when used as intended with Part A]
Molecular weight	No Data Available

Nanoparticles

This material contains nanoparticles.

SECTION 10: Stability and reactivity

10.1. Reactivity

3M™ Scotch-Weld™ Epoxy Adhesive DP100FR Off-White, Part B

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

Heat is generated during cure. Do not cure a mass larger than 50 grams in a confined space to prevent a premature exothermic reaction with production of intense heat and smoke.

10.5. Incompatible materials

Strong acids

Strong oxidizing agents

10.6. Hazardous decomposition products

Substance

Condition

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

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

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

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

Inhalation:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Skin Contact:

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Eye Contact:

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Ingestion:

May be harmful if swallowed.

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	Ingestion		No data available; calculated ATE2,000 - 5,000 mg/kg
Epoxy Resin	Dermal	Rat	LD50 > 1,600 mg/kg
Epoxy Resin	Ingestion	Rat	LD50 > 1,000 mg/kg
Ammonium Polyphosphate	Dermal	Rat	LD50 > 5,000 mg/kg
Ammonium Polyphosphate	Inhalation-	Rat	LC50 > 4.85 mg/l
	Dust/Mist		
	(4 hours)		
Ammonium Polyphosphate	Ingestion	Rat	LD50 > 300, < 2,000 mg/kg
Titanium Dioxide	Dermal	Rabbit	LD50 > 10,000 mg/kg
Titanium Dioxide	Inhalation-	Rat	LC50 > 6.82 mg/l
	Dust/Mist		
	(4 hours)		
Titanium Dioxide	Ingestion	Rat	LD50 > 10,000 mg/kg
Melamine	Dermal	Rabbit	LD50 > 1,000 mg/kg
Melamine	Ingestion	Rat	LD50 3,161 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Epoxy Resin	Rabbit	Mild irritant
Ammonium Polyphosphate	In vitro	No significant irritation
	data	
Titanium Dioxide	Rabbit	No significant irritation
Melamine	Guinea	No significant irritation
	pig	

Serious Eye Damage/Irritation

Serious Eye Dumuge/11 Hutton					
Name		Value			
Epoxy Resin	Rabbit	Moderate irritant			
Ammonium Polyphosphate	Rabbit	Moderate irritant			
Titanium Dioxide	Rabbit	No significant irritation			
Melamine	Rabbit	No significant irritation			

Sensitization:

Skin Sensitization

Name	Species	Value
Epoxy Resin	Human and animal	Sensitizing
Ammonium Polyphosphate	similar compoun ds	Not classified
Titanium Dioxide	Human and animal	Not classified
Melamine	Guinea pig	Not classified

Respiratory Sensitization

Name	Species	Value
Epoxy Resin	Human	Not classified

Germ Cell Mutagenicity

Name	Route Value			
Epoxy Resin	In vivo	Not mutagenic		
Epoxy Resin	In Vitro	Some positive data exist, but the data are not sufficient for classification		
Titanium Dioxide	In Vitro	Not mutagenic		
Titanium Dioxide	In vivo	Not mutagenic		
Melamine	In Vitro	Not mutagenic		
Melamine	In vivo	Not mutagenic		

Carcinogenicity

Name	Route	Species	Value
Epoxy Resin	Dermal	Mouse	Some positive data exist, but the data are not
			sufficient for classification
Titanium Dioxide	Ingestion	Multiple	Not carcinogenic
		animal	
		species	
Titanium Dioxide	Inhalation	Rat	Carcinogenic
Melamine	Ingestion	Multiple	Carcinogenic
		animal	
		species	

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
Epoxy Resin	Ingestion	Not classified for female reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
Epoxy Resin	Ingestion	Not classified for male reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
Epoxy Resin	Dermal	Not classified for development	Rabbit	NOAEL 300 mg/kg/day	during organogenesis
Epoxy Resin	Ingestion	Not classified for development	Rat	NOAEL 750 mg/kg/day	2 generation
Melamine	Ingestion	Not classified for development	Rat	NOAEL 1,060 mg/kg/day	during organogenesis

Target Organ(s)

Specific Target Organ Toxicity - single exposure

premie ranger organ rowerty single exposure						
Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure
						Duration
Ammonium Polyphosphate	Inhalation	respiratory irritation	Some positive data exist, but the	similar	NOAEL Not	
			data are not sufficient for	health	available	
			classification	hazards		

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Epoxy Resin	Dermal	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	2 years
Epoxy Resin	Dermal	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks

Epoxy Resin	Ingestion	auditory system heart endocrine system hematopoietic system liver eyes kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
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
Melamine	Ingestion	kidney and/or bladder	May cause damage to organs though prolonged or repeated exposure	Rat	LOAEL 63 mg/kg/day	13 weeks

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	Туре	Exposure	Test Endpoint	Test Result
Epoxy Resin	25068-38-6	Rainbow Trout	Estimated	96 hours	LC50	2 mg/l
Epoxy Resin	25068-38-6	Water flea	Estimated	48 hours	LC50	1.8 mg/l
Epoxy Resin	25068-38-6	Activated sludge	Experimental	3 hours	IC50	>100 mg/l
Epoxy Resin	25068-38-6	Green Algae	Experimental	72 hours	EC50	>11 mg/l
Epoxy Resin	25068-38-6	Green Algae	Experimental	72 hours	NOEC	4.2 mg/l
Epoxy Resin	25068-38-6	Water flea	Experimental	21 days	NOEC	0.3 mg/l
Ammonium	68333-79-9	Activated	Estimated	3 hours	EC50	>100 mg/l
Polyphosphate		sludge				
Ammonium	68333-79-9	Green Algae	Estimated	72 hours	EC50	>97.1 mg/l
Polyphosphate						
Ammonium	68333-79-9	Rainbow Trout	Estimated	96 hours	LC50	>100 mg/l
Polyphosphate						
Ammonium	68333-79-9	Water flea	Estimated	48 hours	EC50	>100 mg/l
Polyphosphate						
Ammonium	68333-79-9	Green Algae	Estimated	72 hours	NOEC	97.1 mg/l

Polyphosphate						
Titanium	13463-67-7	Activated	Experimental	3 hours	NOEC	>=1,000 mg/l
Dioxide		sludge				
Titanium	13463-67-7	Diatom	Experimental	72 hours	EC50	>10,000 mg/l
Dioxide						
Titanium	13463-67-7	Fathead	Experimental	96 hours	LC50	>100 mg/l
Dioxide		Minnow				
Titanium	13463-67-7	Water flea	Experimental	48 hours	EC50	>100 mg/l
Dioxide						
Titanium	13463-67-7	Diatom	Experimental	72 hours	NOEC	5,600 mg/l
Dioxide						
Melamine	108-78-1	Bacteria	Experimental	30 minutes	EC50	>10,000 mg/l
Melamine	108-78-1	Green Algae	Experimental	96 hours	EC50	325 mg/l
Melamine	108-78-1	Guppy	Experimental	96 hours	LC50	>3,000 mg/l
Melamine	108-78-1	Water flea	Experimental	48 hours	EC50	48 mg/l
Melamine	108-78-1	Fathead	Experimental	36 days	NOEC	>=5.1 mg/l
		Minnow				
Melamine	108-78-1	Green Algae	Experimental	96 hours	NOEC	98 mg/l
Melamine	108-78-1	Water flea	Experimental	21 days	NOEC	>=11 mg/l

12.2. Persistence and degradability

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Epoxy Resin	25068-38-6	Experimental		Hydrolytic	117 hours (t	Non-standard method
		Hydrolysis		half-life	1/2)	
Epoxy Resin	25068-38-6	Experimental	28 days	Biological	5 %BOD/COD	OECD 301F -
		Biodegradation		Oxygen		Manometric Respiro
				Demand		
Ammonium	68333-79-9	Data not			N/A	
Polyphosphate		availbl-				
		insufficient				
Titanium	13463-67-7	Data not			N/A	
Dioxide		availbl-				
		insufficient				
Melamine	108-78-1	Experimental	14 days	Biological	0 %	OECD 301C - MITI (I)
		Biodegradation		Oxygen	BOD/ThBOD	
				Demand		

12.3. Bioaccumulative potential

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Epoxy Resin	25068-38-6	Experimental		Log of	3.242	Non-standard method
		Bioconcentrati		Octanol/H2O		
		on		part. coeff		
Ammonium	68333-79-9	Data not	N/A	N/A	N/A	N/A
Polyphosphate		available or				
		insufficient for				
		classification				
Titanium	13463-67-7	Experimental	42 days	Bioaccumulatio	9.6	Non-standard method
Dioxide		BCF-Carp		n Factor		
Melamine	108-78-1	Experimental	42 days	Bioaccumulatio	<3.8	OECD 305E-Bioaccum
		BCF-Carp		n Factor		Fl-thru fis

12.4. Mobility in soil

3M[™] Scotch-Weld[™] Epoxy Adhesive DP100FR Off-White, Part B

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: None assigned.

Hazard Class/Division:9

Subsidiary Risk: None assigned.

Packing Group:III

Limited Quantity: None assigned.

Marine Pollutant: Yes

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: None assigned.

Hazard Class/Division:9

Subsidiary Risk: None assigned.

Packing Group:III

Limited Quantity: None assigned.

Marine Pollutant: Yes

Marine Pollutant Technical Name: None assigned.

Other Dangerous Goods Descriptions:

None assigned.

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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 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.

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