

Safety Data Sheet

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Document group:	44-6219-8	Version number:	1.00
Issue Date:	13/07/2025	Supersedes date:	Initial issue.

This Safety Data Sheet has been prepared in accordance with the New Zealand, Hazardous Substances (Safety Data Sheets) Notice 2017.

IDENTIFICATION:

1.1. Product identifier

3M[™] OEM Match Epoxy Seam Sealer, PN 08528, Black

 Product Identification
 Numbers

 7100319202
 60-4500-0812-7

1.2. Recommended use and restrictions on use

Recommended use

Automotive., Sealant.

1.3. Supplier's details

Address:	3M New Zealand Ltd, 94 Apollo Drive, Rosedale 0632, Auckland
Telephone:	(09) 477 4040
E Mail:	innovation@nz.mmm.com
Website:	3m.co.nz

1.4. Emergency telephone number

24 hr Medical Emergency, National Poisons Centre, 0800 764 766 (0800 POISON)

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

44-4836-1, 44-4872-6

One or more components of this KIT is classified as a hazardous substance in accordance with the relevant criteria of the HSNO Act 1996 and the Hazardous Substances (Hazard Classification) Notice 2020.

TRANSPORT INFORMATION

The Components of this KIT have various Dangerous Goods Transportation Classifications. Please refer to the attached component Safety Data Sheets for individual Transportation Classifications.

Revision information:

Initial issue.

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Document group:	44-4836-1	Version number:	1.00
Issue Date:	13/07/2025	Supersedes date:	Initial issue.

This Safety Data Sheet has been prepared in accordance with the New Zealand, Hazardous Substances (Safety Data Sheets) Notice 2017.

SECTION 1: Identification

1.1. Product identifier

3MTM OEM Match Epoxy Seam Sealer, PNs 08528, 08526, 08524, 08522 (Part A)

1.2. Recommended use and restrictions on use

Recommended use

Automotive., Sealant.

For Industrial or Professional use only

1.3. Supplier's details

Address:	3M New Zealand Ltd, 94 Apollo Drive, Rosedale 0632, Auckland
Telephone:	(09) 477 4040
E Mail:	innovation@nz.mmm.com
Website:	3m.co.nz

1.4. Emergency telephone number

24 hr Medical Emergency, National Poisons Centre, 0800 764 766 (0800 POISON)

SECTION 2: Hazard identification

Classified as hazardous in accordance with the relevant criteria of the HSNO Act 1996 and the Hazardous Substances (Hazard Classification) Notice 2020.

Refer to Section 14 of this Safety Data Sheet for product Dangerous Goods Classification.

2.1. Classification of the substance or mixture

Skin sensitisation: Category 1 Carcinogenicity: Category 2 Hazardous to the aquatic environment chronic: Category 2

2.2. Label elements SIGNAL WORD Warning

Symbols: Exclamation mark |Health Hazard |Environment |

Pictograms



HAZARD STATEMENTS: H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H411	Toxic to aquatic life with long lasting effects.
PRECAUTIONARY STATEME	NTS
General	
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
Prevention	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280K	Wear protective gloves and respiratory protection.
Response	
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
Storage	
P405	Store locked up.
Disposal	
P501	Dispose of contents/container via an approved hazardous waste disposal contractor.

2.3. Other hazards

Persons previously sensitised to amines may develop a cross-sensitisation reaction to certain other amines.

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	% by Weight
Mercaptan-Terminated Epoxy Curing Agent	72244-98-5	60 - 100
Siloxanes and Silicones, di-Me, reaction products with silica	67762-90-7	3 - 7
Propylene Oxide, Polymer with Triethylenetetramine	26950-63-0	< 2
Titanium dioxide	13463-67-7	< 1
Trizinc bis(orthophosphate)	7779-90-0	< 1
Triethylenetetramine	112-24-3	< 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

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> Carbon monoxide. Carbon dioxide.

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.

5.4. Hazchem code: 2Z

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS.

<u>Condition</u> During combustion. During combustion.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. 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

Refer to Section 15 - Controls for more information

7.1. Precautions for safe handling

Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Use personal protective equipment (eg. gloves, respirators...) as required.

7.2. Conditions for safe storage including any incompatibilities

Store away from heat.

7.3. Certified handler

Not required

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

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

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
Triethylenetetramine	112-24-3	AIHA	TWA:6 mg/m3(1 ppm)	Skin
Titanium dioxide	13463-67-7	ACGIH	TWA(Respirable nanoscale particles):0.2 mg/m3;TWA(Respirable finescale particles):2.5 mg/m3	A3: Confirmed animal carcinogen.
Titanium dioxide	13463-67-7	New Zealand	TWA(8 hours):10 mg/m3	
		WES		
ACGIH : American Conference of Government	nental Industrial	Hygienists		
AIHA : American Industrial Hygiene Assoc	ciation			
CMRG : Chemical Manufacturer's Recomm	nended Guideline	S		
New Zealand WES : New Zealand Workpla	ice Exposure Star	ndards.		
TWA: Time-Weighted-Average				
STEL: Short Term Exposure Limit				
ppm: parts per million				

mg/m³: milligrams per cubic metre CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Eye protection not 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

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

Select and use gloves according to AS/NZ 2161. **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.

Refer AS/NZS 1715 - Selection, use and maintenance of respiratory protective equipment and AS/NZS 1716 - Respiratory protective devices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Solid.
Specific Physical Form:	Paste
Colour	Off-White
Odour	Mild Mercaptan
Odour thresholdNo data available.	
рН	Not applicable.
Melting point/Freezing point	No data available.
Boiling point/Initial boiling point/Boiling range	Not applicable.
Flash point	> 93.3 °C [<i>Test Method</i> :Closed Cup]
Evaporation rate	Not applicable.
Flammability	Not applicable.
Flammable Limits(LEL)	Not applicable.
Flammable Limits(UEL)	Not applicable.
Vapour pressure	Not applicable.
Relative Vapour Density	Not applicable.
Density	1.2 kg/l
Relative density	1.18 [<i>Ref Std</i> :WATER=1]
Water solubility	Slight (less than 10%)

ilable.
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liuole.

Particle Characteristics

Not applicable.

SECTION 10: Stability and reactivity

10.1 Reactivity

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

10.2 Chemical stability

Stable.

10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

10.4 Conditions to avoid None known.

10.5 Incompatible materials None known.

10.6 Hazardous decomposition products

Substance

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 labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1 Information on Toxicological effects

Signs and Symptoms of Exposure

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

Inhalation

May cause additional health effects (see below).

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

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

Ingestion

May be harmful if swallowed.

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

Additional Health Effects:

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

Additional information:

Persons previously sensitised to amines may develop a cross-sensitisation reaction to certain other amines.

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 ATE >2,000 - =5,000 mg/kg
Mercaptan-Terminated Epoxy Curing Agent	Dermal	Rabbit	LD50 > 10,200 mg/kg
Mercaptan-Terminated Epoxy Curing Agent	Ingestion	Rat	LD50 2,600 mg/kg
Siloxanes and Silicones, di-Me, reaction products with silica	Dermal	Rabbit	LD50 > 5,000 mg/kg
Siloxanes and Silicones, di-Me, reaction products with silica	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
Siloxanes and Silicones, di-Me, reaction products with silica	Ingestion	Rat	LD50 > 5,110 mg/kg
Propylene Oxide, Polymer with Triethylenetetramine	Dermal	Rat	LD50 2,150 mg/kg
Propylene Oxide, Polymer with Triethylenetetramine	Ingestion	Rat	LD50 4,500 mg/kg
Trizine bis(orthophosphate)	Dermal		LD50 estimated to be > 5,000 mg/kg
Trizinc bis(orthophosphate)	Ingestion	Rat	LD50 > 5,000 mg/kg
Titanium dioxide	Dermal	Rabbit	LD50 > 10,000 mg/kg
Titanium dioxide	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 6.82 mg/l
Titanium dioxide	Ingestion	Rat	LD50 > 10,000 mg/kg
Triethylenetetramine	Dermal	Rat	LD50 1,465 mg/kg
Triethylenetetramine	Ingestion	Rat	LD50 1,591 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Mercaptan-Terminated Epoxy Curing Agent	Rabbit	No significant irritation
Siloxanes and Silicones, di-Me, reaction products with silica	Rabbit	No significant irritation
Propylene Oxide, Polymer with Triethylenetetramine	Rabbit	Irritant
Titanium dioxide	Rabbit	No significant irritation
Triethylenetetramine	Rabbit	Corrosive

Serious Eye Damage/Irritation

Name	Species	Value

Mercaptan-Terminated Epoxy Curing Agent	Rabbit	Mild irritant
Siloxanes and Silicones, di-Me, reaction products with silica	Rabbit	No significant irritation
Propylene Oxide, Polymer with Triethylenetetramine	Rabbit	Severe irritant
Titanium dioxide	Rabbit	No significant irritation
Triethylenetetramine	Rabbit	Corrosive

Sensitisation:

Skin Sensitisation

Name	Species	Value
Mercaptan-Terminated Epoxy Curing Agent	Mouse	Sensitising
Siloxanes and Silicones, di-Me, reaction products with silica	Human	Not classified
	and	
	animal	
Propylene Oxide, Polymer with Triethylenetetramine	Mouse	Sensitising
Titanium dioxide	Human	Not classified
	and	
	animal	
Triethylenetetramine	Guinea	Sensitising
	pig	

Respiratory Sensitisation

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

Germ Cell Mutagenicity

Name	Route	Value
Mercaptan-Terminated Epoxy Curing Agent	In Vitro	Not mutagenic
Siloxanes and Silicones, di-Me, reaction products with silica	In Vitro	Not mutagenic
Propylene Oxide, Polymer with Triethylenetetramine	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
Triethylenetetramine	In vivo	Not mutagenic
Triethylenetetramine	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Siloxanes and Silicones, di-Me, reaction products with silica	Not	Mouse	Some positive data exist, but the data are not
	specified.		sufficient for classification
Titanium dioxide	Ingestion	Multiple	Not carcinogenic
		animal	
		species	
Titanium dioxide	Inhalation	Rat	Carcinogenic.
Triethylenetetramine	Dermal	Mouse	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Siloxanes and Silicones, di-Me, reaction products with silica	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Siloxanes and Silicones, di-Me, reaction products with silica	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Siloxanes and Silicones, di-Me, reaction products with silica	Ingestion	Not classified for development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis
Propylene Oxide, Polymer with Triethylenetetramine	Ingestion	Not classified for female reproduction	Rat	NOAEL 750 mg/kg/day	premating into lactation

Propylene Oxide, Polymer with Triethylenetetramine	Ingestion	Not classified for male reproduction	Rat	NOAEL 750 mg/kg/day	43 days
Propylene Oxide, Polymer with Triethylenetetramine	Ingestion	Not classified for development	Rat	NOAEL 750 mg/kg/day	premating into lactation
Triethylenetetramine	Dermal	Not classified for development	Rabbit	NOAEL 125 mg/kg/day	during organogenesis
Triethylenetetramine	Ingestion	Not classified for development	Rat	NOAEL 750 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
Propylene Oxide, Polymer with Triethylenetetramine	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL not available	
Triethylenetetramine	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
Mercaptan-Terminated Epoxy Curing Agent	Ingestion	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 75 mg/kg/day	90 days
Mercaptan-Terminated Epoxy Curing Agent	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 250 mg/kg/day	90 days
Mercaptan-Terminated Epoxy Curing Agent	Ingestion	endocrine system heart skin immune system nervous system eyes kidney and/or bladder respiratory system vascular system	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days
Siloxanes and Silicones, di-Me, reaction products with silica	Inhalation	respiratory system silicosis	Not classified	Human	NOAEL Not available	occupational exposure
Propylene Oxide, Polymer with Triethylenetetramine	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 300 mg/kg/day	43 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

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 labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity Ecotoxic to the aquatic environment. Acute Aquatic Toxicity: Category 2 Chronic Aquatic Toxicity: Category 2

No product test data available.

Material	CAS Number	Organism	Туре	Exposure	Test endpoint	Test result
Mercaptan- Terminated Epoxy Curing Agent	72244-98-5	Activated sludge	Experimental	3 hours	EC50	>1,000 mg/l
Mercaptan- Terminated Epoxy Curing Agent	72244-98-5	Green algae	Experimental	72 hours	EC50	>733 mg/l
Mercaptan- Terminated Epoxy Curing Agent	72244-98-5	Water flea	Experimental	48 hours	EC50	12 mg/l
Mercaptan- Terminated Epoxy Curing Agent	72244-98-5	Zebra Fish	Experimental	96 hours	LC50	87 mg/l
Mercaptan- Terminated Epoxy Curing Agent	72244-98-5	Green algae	Experimental	72 hours	NOEC	338 mg/l
Mercaptan- Terminated Epoxy Curing Agent	72244-98-5	Water flea	Experimental	21 days	NOEC	3.5 mg/l
Siloxanes and Silicones, di- Me, reaction products with silica	67762-90-7	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Propylene Oxide, Polymer with Triethylenetetra mine		Green algae	Experimental	72 hours	EC50	4.1 mg/l
Propylene Oxide, Polymer with Triethylenetetra mine		Rainbow trout	Experimental	96 hours	LC50	>4.1 mg/l
Propylene Oxide, Polymer with Triethylenetetra mine		Water flea	Experimental	48 hours	EC50	48 mg/l
Propylene Oxide, Polymer	26950-63-0	Green algae	Experimental	72 hours	ErC10	0.11 mg/l

				1	
50.62.0	A 1	F • 1	2.1	5010	20 /1
		Experimental	3 hours	EC10	38 mg/l
	sludge				
		Experimental	3 hours	NOEC	>=1,000 mg/l
	<u> </u>				
163-67-7	Diatom	Experimental	72 hours	EC50	>10,000 mg/l
163-67-7	Fathead	Experimental	96 hours	LC50	>100 mg/l
163-67-7	Water flea	Experimental	48 hours	EC50	>100 mg/l
163-67-7	Diatom	Experimental	72 hours	NOEC	5,600 mg/l
		-			
79-90-0	Activated	Estimated	3 hours	EC50	10 mg/l
	sludge				
	C C				
79-90-0	Green algae	Estimated	72 hours	EC50	0.083 mg/l
	e				U
79-90-0	Invertebrate	Estimated	48 hours	EC50	0.08 mg/l
79-90-0	Rainbow trout	Estimated	96 hours	LC50	0.33 mg/l
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			<i>y</i> o no m s	2000	0.00
79-90-0	Water flea	Estimated	48 hours	EC50	0.12 mg/l
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Water fieu	Estimated	10 nouis	2000	0.12 mg/1
79_90_0	Diatom	Estimated	72 hours	EC50	0.04 mg/l
<i>y y</i> 0 0	Diatom	Estimated	/2 110015	Leso	0.04 115/1
79_90_0	Green algae	Estimated	72 hours	NOEC	0.01 mg/l
9-90-0	Oreen algae	Estimated	72 110015	NOLC	0.01 mg/1
70.00.0	Water flee	Estimated	7 days	NOEC	0.026 mg/l
9-90-0	water fiea	Estimated	7 uays	NOLC	0.020 mg/1
24.2	Croop algaa	Eurorimontal	72 hours	EC50	27.4 mg/l
2-24-3	Green algae	Experimental	72 nours	EC30	27.4 mg/1
24.2	Cummu	Europine antal	06 hours	1.050	570 mg/l
2-24-3	Guppy	Experimental	96 nours	LC30	570 mg/1
24.2	Watan flaa	F	40 h anne -	EC50	27.4
2-24-3	water flea	Experimental	48 nours	EC30	37.4 mg/l
24.2			72.1	NOTO	0.460 /
2-24-3	Green algae	Experimental	72 hours	NOEC	0.468 mg/l
				1	1
			a	10000	
2-24-3	Water flea	Experimental	21 days	NOEC	2.86 mg/l
	63-67-7 63-67-7 63-67-7 63-67-7 63-67-7 9-90-0 '9-90-0 '9-90-0	sludge-63-67-7Activated sludge-63-67-7Diatom-63-67-7Fathead minnow-63-67-7Water flea-63-67-7Diatom'9-90-0Activated sludge'9-90-0Green algae'9-90-0Invertebrate'9-90-0Water flea'9-90-0Green algae'9-90-0Green algae'9-90-0Water flea'9-90-0Green algae'9-90-0Green algae'9-90-0Green algae'9-90-0Water flea'9-90-10Green algae'9-90-10Green algae'9-90-10Water flea'9-90-10Water flea'9-90-10Green algae'9-90-10Green algae'9-90-10Water flea'9-90-10Water flea'9-90-10Water flea'9-90-10Water flea'9-90-10Water flea'9-90-10Water flea'9-90-10Water flea	sludgeI63-67-7Activated sludgeExperimental63-67-7DiatomExperimental63-67-7Fathead minnowExperimental63-67-7Water fleaExperimental63-67-7DiatomExperimental63-67-7DiatomExperimental63-67-7DiatomExperimental63-67-7DiatomExperimental79-90-0Activated sludgeEstimated79-90-0Green algaeEstimated79-90-0Rainbow troutEstimated79-90-0DiatomEstimated79-90-0Oreen algaeEstimated79-90-0Qreen algaeEstimated79-90-0Green algaeEstimated79-90-0Green algaeEstimated79-90-0Green algaeEstimated79-90-0Water fleaEstimated79-90-0Water fleaExperimental79-90-0Water fleaExperimental79-90-0Water fleaExperimental79-90-0Water flea </td <td>sludgeI63-67-7Activated sludgeExperimental3 hours63-67-7DiatomExperimental72 hours63-67-7Fathead minnowExperimental96 hours63-67-7Water fleaExperimental48 hours63-67-7DiatomExperimental72 hours63-67-7DiatomExperimental72 hours63-67-7DiatomExperimental72 hours9-90-0Activated sludgeEstimated3 hours9-90-0Green algaeEstimated72 hours9-90-0InvertebrateEstimated48 hours9-90-0Rainbow troutEstimated96 hours9-90-0DiatomEstimated72 hours9-90-0Green algaeEstimated72 hours9-90-0DiatomEstimated72 hours9-90-0Green algaeEstimated72 hours9-90-0Green algaeEstimated72 hours9-90-0Green algaeEstimated72 hours9-90-0Green algaeEstimated72 hours9-90-0Green algaeEstimated72 hours9-90-0Green algaeEstimated74 hours9-90-0Water fleaEstimated74 hours-24-3GuppyExperimental96 hours-24-3Water fleaExperimental48 hours</td> <td>sludgersludger63-67-7Activated sludgeExperimental3 hoursNOEC63-67-7DiatomExperimental72 hoursEC5063-67-7Fathead minnowExperimental96 hoursLC5063-67-7Water fleaExperimental48 hoursEC5063-67-7DiatomExperimental72 hoursNOEC63-67-7DiatomExperimental72 hoursNOEC9-90-0Activated sludgeEstimated3 hoursEC509-90-0Green algaeEstimated72 hoursEC509-90-0InvertebrateEstimated48 hoursEC509-90-0Rainbow troutEstimated96 hoursLC509-90-0DiatomEstimated48 hoursEC509-90-0DiatomEstimated72 hoursNOEC9-90-0Green algaeEstimated72 hoursNOEC9-90-0Green algaeEstimated72 hoursNOEC9-90-0Green algaeEstimated72 hoursNOEC9-90-0Green algaeEstimated72 hoursNOEC9-90-0Green algaeEstimated72 hoursNOEC9-90-0Green algaeEstimated72 hoursNOEC9-90-0Water fleaEstimated74 hoursEC50-24-3GuppyExperimental96 hoursLC50-24-3Water fleaExperimental48 hoursEC50</td>	sludgeI63-67-7Activated sludgeExperimental3 hours63-67-7DiatomExperimental72 hours63-67-7Fathead minnowExperimental96 hours63-67-7Water fleaExperimental48 hours63-67-7DiatomExperimental72 hours63-67-7DiatomExperimental72 hours63-67-7DiatomExperimental72 hours9-90-0Activated sludgeEstimated3 hours9-90-0Green algaeEstimated72 hours9-90-0InvertebrateEstimated48 hours9-90-0Rainbow troutEstimated96 hours9-90-0DiatomEstimated72 hours9-90-0Green algaeEstimated72 hours9-90-0DiatomEstimated72 hours9-90-0Green algaeEstimated72 hours9-90-0Green algaeEstimated72 hours9-90-0Green algaeEstimated72 hours9-90-0Green algaeEstimated72 hours9-90-0Green algaeEstimated72 hours9-90-0Green algaeEstimated74 hours9-90-0Water fleaEstimated74 hours-24-3GuppyExperimental96 hours-24-3Water fleaExperimental48 hours	sludgersludger63-67-7Activated sludgeExperimental3 hoursNOEC63-67-7DiatomExperimental72 hoursEC5063-67-7Fathead minnowExperimental96 hoursLC5063-67-7Water fleaExperimental48 hoursEC5063-67-7DiatomExperimental72 hoursNOEC63-67-7DiatomExperimental72 hoursNOEC9-90-0Activated sludgeEstimated3 hoursEC509-90-0Green algaeEstimated72 hoursEC509-90-0InvertebrateEstimated48 hoursEC509-90-0Rainbow troutEstimated96 hoursLC509-90-0DiatomEstimated48 hoursEC509-90-0DiatomEstimated72 hoursNOEC9-90-0Green algaeEstimated72 hoursNOEC9-90-0Green algaeEstimated72 hoursNOEC9-90-0Green algaeEstimated72 hoursNOEC9-90-0Green algaeEstimated72 hoursNOEC9-90-0Green algaeEstimated72 hoursNOEC9-90-0Green algaeEstimated72 hoursNOEC9-90-0Water fleaEstimated74 hoursEC50-24-3GuppyExperimental96 hoursLC50-24-3Water fleaExperimental48 hoursEC50

12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Mercaptan- Terminated Epoxy Curing Agent	72244-98-5	Experimental Biodegradation	28 days	CO2 evolution	5 %CO2 evolution/THC O2 evolution	OECD 301B - Modified sturm or CO2
Siloxanes and Silicones, di- Me, reaction products with silica	67762-90-7	Data not availbl- insufficient	N/A	N/A	N/A	N/A
Propylene Oxide, Polymer with Triethylenetetra mine		Experimental Biodegradation	28 days	BOD	4 %BOD/ThO D	OECD 301F - Manometric respirometry
Propylene Oxide, Polymer with Triethylenetetra mine		Experimental Hydrolysis		Hydrolytic half-life (pH 7)	>1 years (t 1/2)	OECD 111 Hydrolysis func of pH
Titanium dioxide	13463-67-7	Data not availbl- insufficient	N/A	N/A	N/A	N/A
Trizinc bis(orthophosp hate)	7779-90-0	Data not availbl- insufficient	N/A	N/A	N/A	N/A
Triethylenetetra mine	112-24-3	Experimental Biodegradation	20 days	BOD	0 %BOD/ThO D	OECD 301D - Closed bottle test

12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Mercaptan-	72244-98-5	Estimated		Log Kow	>1.2	
Terminated		Bioconcentrati				
Epoxy Curing		on				
Agent						
Siloxanes and	67762-90-7	Data not	N/A	N/A	N/A	N/A
Silicones, di-		available or				
Me, reaction		insufficient for				
products with		classification				
silica						
1 5	26950-63-0	Unknown		Log Kow	-2.42	
Oxide, Polymer		Bioconcentrati				
with		on				
Triethylenetetra						
mine						
Titanium	13463-67-7	Experimental	42 days	Bioaccumulatio	9.6	
dioxide		BCF - Fish		n factor		
Triethylenetetra	112-24-3	Experimental	42 days	Bioaccumulatio	<5.0	OECD305-
mine		BCF - Fish		n factor		Bioconcentration

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

In accordance with the Hazardous Substances (Disposal) Notice 2017 and the relevant criteria of the HSNO Act 1996.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

Packaging (that may or may not contain any residual substance) may be lawfully disposed of by householders or other consumers through public or commercial waste collection services.

SECTION 14: Transport Information

New Zealand Land Transport Rule: Dangerous Goods - Road/Rail Transport UN No.: UN3077 Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. , (Trizinc bis(orthophosphate)) Class/Division: 9 Sub Risk: Not applicable. Packing Group: III Special Instructions: Not restricted, environmentally hazardous substance exception. Hazchem Code: 2Z IERG: 47

International Air Transport Association (IATA) - Air Transport UN No.: UN3077 Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (Trizinc bis(orthophosphate)) Class/Division: 9 Sub Risk: Not applicable. Packing Group: III Special Instructions: Not restricted, as per Special Provision A197, environmentally hazardous substance exception.

International Maritime Dangerous Goods Code (IMDG) - Marine Transport UN No.: UN3077 Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. , (Trizinc bis(orthophosphate)) Class/Division: 9 Sub Risk: Not applicable. Packing Group: III Marine Pollutant: Not applicable. Special Instructions: Not restricted, as per IMDG code 2.10.2.7, marine pollutant exception.

SECTION 15: Regulatory information

HSNO Approval numberHSR002679Group standard nameSurface Coatings and Colourants (Carcinogenic) Group Standard 2020

HSNO Hazard classification Refer to Section 2: Hazard identification

NZ Inventory of Chemicals (NZIoC) Status

All ingredients are listed on the New Zealand Inventory of Chemicals.

Controls in accordance with The Health and Safety at Work Act 2015, Health and Safety at Work (Hazardous Substances) Regulations 2017 and the HSNO Act 1996, Hazardous Substances (Hazardous Property Controls) Notice 2017

2017	
Certified handler	Not required
Location Compliance Certificate	Not required
Hazardous atmosphere zone	Not required
Fire extinguishers	Not required
Emergency response plan	100 L or 100 kg (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L or 1 000 kg (for Acute toxicity Category 4, Skin sensitisation Category 1, Respiratory sensitisation Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L or 10 000 kg (for all other substances)
Secondary containment	100 L or 100 kg (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L or 1 000 kg (for Acute toxicity Category 4, Skin sensitisation Category 1, Respiratory sensitisation Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L or 10 000 kg (for all other substances)
Tracking	Not required
Warning signage	100 L or 100 kg (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L or 1 000 kg (for Serious eye damage Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L or 10 000 kg (for Acute toxicity Category 4 or Hazardous to the aquatic environment Category 4 substances)

SECTION 16: Other information

Revision information:

Initial issue.

Document group:	44-4836-1	Version number:	1.00
Issue Date:	13/07/2025	Supersedes date:	Initial issue.

Key to abbreviations and acronyms

GHS refers to the Globally Harmonised System of Classification and Labelling of Chemicals, 7th revised edition of 2017 **HSNO** means Hazardous Substances and New Organisms Act 1996

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Safety Data Sheet

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Document group:	44-4872-6	Version number:	1.00
Issue Date:	13/07/2025	Supersedes date:	Initial issue.

This Safety Data Sheet has been prepared in accordance with the New Zealand, Hazardous Substances (Safety Data Sheets) Notice 2017.

SECTION 1: Identification

1.1. Product identifier

3M[™] OEM Match Epoxy Seam Sealer, PN 08528, Black (Part B)

1.2. Recommended use and restrictions on use

Recommended use

Automotive., Sealant.

For Industrial or Professional use only

1.3. Supplier's details

Address:	3M New Zealand Ltd, 94 Apollo Drive, Rosedale 0632, Auckland
Telephone:	(09) 477 4040
E Mail:	innovation@nz.mmm.com
Website:	3m.co.nz

1.4. Emergency telephone number

24 hr Medical Emergency, National Poisons Centre, 0800 764 766 (0800 POISON)

SECTION 2: Hazard identification

Classified as hazardous in accordance with the relevant criteria of the HSNO Act 1996 and the Hazardous Substances (Hazard Classification) Notice 2020.

Refer to Section 14 of this Safety Data Sheet for product Dangerous Goods Classification.

2.1. Classification of the substance or mixture

Eye irritation: Category 2 Skin sensitisation: Category 1 Carcinogenicity: Category 2 Hazardous to the aquatic environment chronic: Category 2

2.2. Label elements SIGNAL WORD Warning

Symbols:

Exclamation mark |Health Hazard |

Pictograms



HAZARD STATEMENTS: H319	Causas serious ava irritation
H317	Causes serious eye irritation. May cause an allergic skin reaction.
H351	Suspected of causing cancer.
11551	Suspected of eausing earlier.
H411	Toxic to aquatic life with long lasting effects.
PRECAUTIONARY STATEMENT	rs
General	
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
Prevention	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash exposed skin thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280K	Wear protective gloves and respiratory protection.
Response	
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
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.
P337 + P313	If eye irritation persists: Get medical advice.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
Storage	
P405	Store locked up.
Disposal	

P501

Dispose of contents/container via an approved hazardous waste disposal contractor.

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	% by Weight
4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer	25068-38-6	60 - 100
Epichlorohydrin-4,4'-(1-Methylethylidene)Biscyclohexanol Polymer	30583-72-3	10 - 30
Siloxanes and Silicones, di-Me, reaction products with silica	67762-90-7	3 - 7
Silicon dioxide	7631-86-9	1 - 5
Calcium Phosphate	7758-87-4	1 - 5
Carbon black	1333-86-4	0.5 - 1.5

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

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.

A product risk assessment is recommended to determine if eye wash facilities may be required when using this product in the workplace.

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.

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.

5.4. Hazchem code: 2Z

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS. 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

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. 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

Refer to Section 15 - Controls for more information

7.1. Precautions for safe handling

Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (eg. gloves, respirators...) as required.

7.2. Conditions for safe storage including any incompatibilities

Store away from heat. Store away from acids. Store away from oxidising agents. Store away from amines.

7.3. Certified handler

Not required

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

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

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
Carbon black	1333-86-4	ACGIH	TWA(inhalable fraction):3	A3: Confirmed animal
			mg/m3	carcinogen.
Carbon black	1333-86-4	New Zealand	TWA(8 hours): 3 mg/m3	Suspected human
		WES		carcinogen.

ACGIH : American Conference of Governmental Industrial Hygienists AIHA : American Industrial Hygiene Association CMRG : Chemical Manufacturer's Recommended Guidelines New Zealand WES : New Zealand Workplace Exposure Standards. TWA: Time-Weighted-Average STEL: Short Term Exposure Limit ppm: parts per million mg/m³: milligrams per cubic metre CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended: Safety glasses with side shields. Indirect vented goggles.

Refer AS/NZS 1336 - Recommended practices for occupational eye protection and for performance specifications AS/NZS 1337, Parts 1 - 6 - Personal eye-protection.

Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity. Gloves made from the following material(s) are recommended: Polymer laminate

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

Select and use gloves according to AS/NZ 2161.

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 particulates.

For questions about suitability for a specific application, consult with your respirator manufacturer.

Refer AS/NZS 1715 - Selection, use and maintenance of respiratory protective equipment and AS/NZS 1716 - Respiratory protective devices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Solid.		
Specific Physical Form:	Paste		
Colour	Black		
Odour	Mild Epoxy		
Odour threshold	No data available.		
рН	Not applicable.		
Melting point/Freezing point	No data available.		
Boiling point/Initial boiling point/Boiling range	Not applicable.		
Flash point	> 115 °C [Test Method:Closed Cup]		
Evaporation rate	Not applicable.		
Flammability	Not applicable.		
Flammable Limits(LEL)	Not applicable.		
Flammable Limits(UEL)	Not applicable.		

Vapour pressure	Not applicable.	
Relative Vapour Density	Not applicable.	
Density	1.2 kg/l	
Relative density	1.22 [<i>Ref Std</i> :WATER=1]	
Water solubility	Slight (less than 10%)	
Solubility- non-water	No data available.	
Partition coefficient: n-octanol/water	No data available.	
Autoignition temperature	No data available.	
Decomposition temperature	No data available.	
Kinematic Viscosity	No data available.	
Volatile organic compounds (VOC)	No data available.	
Percent volatile	No data available.	
VOC less H2O & exempt solvents	No data available.	
Molecular weight	No data available.	

Particle Characteristics	Not applicable.
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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 polymerisation will not occur.

10.4 Conditions to avoid

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. Sparks and/or flames.

10.5 Incompatible materials

Strong oxidising agents. Amines. Strong acids.

10.6 Hazardous decomposition products

S	ibstance	

Aldehydes. Carbon monoxide. Carbon dioxide. Hydrogen Chloride Condition Not specified. Not specified. Not specified. 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 labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1 Information on Toxicological effects

Signs and Symptoms of Exposure

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

Inhalation

May cause additional health effects (see below).

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

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

Additional Health Effects:

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

Toxicological Data

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

Acute Toxicity

Name	Route	Species	Value
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer	Dermal	Rat	LD50 > 1,600 mg/kg
4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer	Ingestion	Rat	LD50 > 1,000 mg/kg
Epichlorohydrin-4,4'-(1-Methylethylidene)Biscyclohexanol Polymer	Dermal	Rat	LD50 > 2,000 mg/kg
Epichlorohydrin-4,4'-(1-Methylethylidene)Biscyclohexanol Polymer	Ingestion	Rat	LD50 > 2,000 mg/kg
Siloxanes and Silicones, di-Me, reaction products with silica	Dermal	Rabbit	LD50 > 5,000 mg/kg
Siloxanes and Silicones, di-Me, reaction products with silica	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
Siloxanes and Silicones, di-Me, reaction products with silica	Ingestion	Rat	LD50 > 5,110 mg/kg
Silicon dioxide	Dermal	Rabbit	LD50 > 5,000 mg/kg
Silicon dioxide	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
Silicon dioxide	Ingestion	Rat	LD50 > 5,110 mg/kg
Carbon black	Dermal	Rabbit	LD50 > 3,000 mg/kg
Carbon black	Ingestion	Rat	LD50 > 8,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer	Rabbit	Mild irritant
Epichlorohydrin-4,4'-(1-Methylethylidene)Biscyclohexanol Polymer	Rabbit	Minimal irritation
Siloxanes and Silicones, di-Me, reaction products with silica	Rabbit	No significant irritation
Silicon dioxide	Rabbit	No significant irritation
Carbon black	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer	Rabbit	Moderate irritant
Epichlorohydrin-4,4'-(1-Methylethylidene)Biscyclohexanol Polymer	Rabbit	Mild irritant
Siloxanes and Silicones, di-Me, reaction products with silica	Rabbit	No significant irritation
Silicon dioxide	Rabbit	No significant irritation
Carbon black	Rabbit	No significant irritation

Sensitisation:

Skin Sensitisation

Name	Species	Value
4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer	Human	Sensitising
	and	
	animal	
Epichlorohydrin-4,4'-(1-Methylethylidene)Biscyclohexanol Polymer	Mouse	Sensitising
Siloxanes and Silicones, di-Me, reaction products with silica	Human	Not classified
	and	
	animal	
Silicon dioxide	Human	Not classified
	and	
	animal	

Respiratory Sensitisation

Name	Species	Value
4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer	Human	Not classified

Germ Cell Mutagenicity

Name	Route	Value
4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer	In vivo	Not mutagenic
4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer	In Vitro	Some positive data exist, but the data are not sufficient for classification
Epichlorohydrin-4,4'-(1-Methylethylidene)Biscyclohexanol Polymer	In vivo	Not mutagenic
Epichlorohydrin-4,4'-(1-Methylethylidene)Biscyclohexanol Polymer	In Vitro	Some positive data exist, but the data are not sufficient for classification
Siloxanes and Silicones, di-Me, reaction products with silica	In Vitro	Not mutagenic
Silicon dioxide	In Vitro	Not mutagenic
Carbon black	In Vitro	Not mutagenic
Carbon black	In vivo	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer	Dermal	Mouse	Some positive data exist, but the data are not
			sufficient for classification
Siloxanes and Silicones, di-Me, reaction products with silica	Not	Mouse	Some positive data exist, but the data are not
	specified.		sufficient for classification
Silicon dioxide	Not	Mouse	Some positive data exist, but the data are not
	specified.		sufficient for classification
Carbon black	Dermal	Mouse	Not carcinogenic
Carbon black	Ingestion	Mouse	Not carcinogenic
Carbon black	Inhalation	Rat	Carcinogenic.

Reproductive Toxicity

Reproductive and/or Developmental Effects					
Name	Route	Value	Species	Test result	Exposure

					Duration
4,4'-Isopropylidenediphenol- Epichlorohydrin Polymer	Ingestion	Not classified for female reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
4,4'-Isopropylidenediphenol- Epichlorohydrin Polymer	Ingestion	Not classified for male reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
4,4'-Isopropylidenediphenol- Epichlorohydrin Polymer	Dermal	Not classified for development	Rabbit	NOAEL 300 mg/kg/day	during organogenesis
4,4'-Isopropylidenediphenol- Epichlorohydrin Polymer	Ingestion	Not classified for development	Rat	NOAEL 750 mg/kg/day	2 generation
Epichlorohydrin-4,4'-(1- Methylethylidene)Biscyclohexanol Polymer	Ingestion	Not classified for development	Rat	NOAEL 300 mg/kg/day	during gestation
Siloxanes and Silicones, di-Me, reaction products with silica	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Siloxanes and Silicones, di-Me, reaction products with silica	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Siloxanes and Silicones, di-Me, reaction products with silica	Ingestion	Not classified for development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis
Silicon dioxide	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Silicon dioxide	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Silicon dioxide	Ingestion	Not classified for development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis

Target Organ(s)

Specific Target Organ Toxicity - single exposure

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

Specific Target	Organ Toxicity	- repeated exposure
Specific Target	Organ roxicity	- repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
4,4'- Isopropylidenediphenol- Epichlorohydrin Polymer	Dermal	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	2 years
4,4'- Isopropylidenediphenol- Epichlorohydrin Polymer	Dermal	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
4,4'- Isopropylidenediphenol- Epichlorohydrin Polymer	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
Epichlorohydrin-4,4'-(1- Methylethylidene)Biscyclo hexanol Polymer	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 100 mg/kg/day	90 days
Epichlorohydrin-4,4'-(1- Methylethylidene)Biscyclo hexanol Polymer	Ingestion	heart endocrine system gastrointestinal tract bone, teeth, nails, and/or hair hematopoietic system liver immune system nervous system vascular system skin muscles eyes respiratory system	Not classified	Rat	NOAEL 600 mg/kg/day	90 days
Siloxanes and Silicones, di-Me, reaction products with silica	Inhalation	respiratory system silicosis	Not classified	Human	NOAEL Not available	occupational exposure
Silicon dioxide	Inhalation	respiratory system	Not classified	Human	NOAEL Not	occupational

			silicosis			available	exposure
Ca	arbon black	Inhalation	pneumoconiosis	Not classified	Human	NOAEL Not	occupational
						available	exposure

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 labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity Ecotoxic to the aquatic environment. Acute Aquatic Toxicity: Category 2 Chronic Aquatic Toxicity: Category 2

No product test data available.

Material	CAS Number	Organism	Туре	Exposure	Test endpoint	Test result
4,4'- Isopropylidene diphenol- Epichlorohydri n Polymer	25068-38-6	Activated sludge	Estimated	3 hours	IC50	>100 mg/l
4,4'- Isopropylidene diphenol- Epichlorohydri n Polymer	25068-38-6	Green algae	Estimated	72 hours	EC50	>11 mg/l
4,4'- Isopropylidene diphenol- Epichlorohydri n Polymer	25068-38-6	Rainbow trout	Estimated	96 hours	LC50	2 mg/l
4,4'- Isopropylidene diphenol- Epichlorohydri n Polymer	25068-38-6	Water flea	Estimated	48 hours	EC50	1.8 mg/l
4,4'- Isopropylidene diphenol- Epichlorohydri n Polymer	25068-38-6	Green algae	Estimated	72 hours	NOEC	4.2 mg/l
4,4'- Isopropylidene diphenol- Epichlorohydri	25068-38-6	Water flea	Estimated	21 days	NOEC	0.3 mg/l

n Polymer						
Epichlorohydri n-4,4'-(1- Methylethylide ne)Biscyclohex anol Polymer	30583-72-3	Activated sludge	Experimental	3 hours	NOEC	1,000 mg/l
Epichlorohydri n-4,4'-(1- Methylethylide ne)Biscyclohex anol Polymer	30583-72-3	Green algae	Experimental	72 hours	EC50	>100 mg/l
Epichlorohydri n-4,4'-(1- Methylethylide ne)Biscyclohex anol Polymer	30583-72-3	Rainbow trout	Experimental	96 hours	LC50	11.5 mg/l
Siloxanes and Silicones, di- Me, reaction products with silica	67762-90-7	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Calcium Phosphate	7758-87-4	Activated sludge	Estimated	3 hours	NOEC	1,000 mg/l
Calcium Phosphate	7758-87-4	Green algae	Estimated	72 hours	EC50	>100 mg/l
Calcium Phosphate	7758-87-4	Rainbow trout	Estimated	96 hours	LC50	>100 mg/l
Calcium Phosphate	7758-87-4	Water flea	Estimated	48 hours	EC50	>100 mg/l
Calcium Phosphate	7758-87-4	Green algae	Estimated	72 hours	NOEC	100 mg/l
Silicon dioxide	7631-86-9	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Carbon black	1333-86-4	Green algae	Experimental	72 hours	No tox obs at lmt of water sol	>100 mg/l
Carbon black	1333-86-4	Zebra Fish	Experimental	96 hours	No tox obs at lmt of water sol	>100 mg/l
Carbon black	1333-86-4	Green algae	Experimental	72 hours	No tox obs at lmt of water sol	100 mg/l
Carbon black	1333-86-4	Activated sludge	Experimental	3 hours	NOEC	>800 mg/l

12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
4,4'-	25068-38-6	Estimated	28 days	BOD	5 %BOD/COD	OECD 301F -
Isopropylidene		Biodegradation				Manometric
diphenol-						respirometry
Epichlorohydri						
n Polymer						
4,4'-	25068-38-6	Estimated		Hydrolytic	117 hours (t	
Isopropylidene		Hydrolysis		half-life	1/2)	
diphenol-						

Epichlorohydri n Polymer						
Epichlorohydri n-4,4'-(1- Methylethylide ne)Biscyclohex anol Polymer		Experimental Biodegradation	28 days	BOD	0.1 %BOD/Th OD	OECD 301D - Closed bottle test
Siloxanes and Silicones, di- Me, reaction products with silica	67762-90-7	Data not availbl- insufficient	N/A	N/A	N/A	N/A
Calcium Phosphate	7758-87-4	Data not availbl- insufficient	N/A	N/A	N/A	N/A
Silicon dioxide	7631-86-9	Data not availbl- insufficient	N/A	N/A	N/A	N/A
Carbon black	1333-86-4	Data not availbl- insufficient	N/A	N/A	N/A	N/A

12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
4,4'- Isopropylidene diphenol- Epichlorohydri n Polymer	25068-38-6	Estimated Bioconcentrati on		Log Kow	3.242	
Epichlorohydri n-4,4'-(1- Methylethylide ne)Biscyclohex anol Polymer		Experimental Bioconcentrati on		Log Kow	3.84	
Siloxanes and Silicones, di- Me, reaction products with silica	67762-90-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Calcium Phosphate	7758-87-4	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Silicon dioxide	7631-86-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Carbon black	1333-86-4	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

In accordance with the Hazardous Substances (Disposal) Notice 2017 and the relevant criteria of the HSNO Act 1996.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

Packaging (that may or may not contain any residual substance) may be lawfully disposed of by householders or other consumers through public or commercial waste collection services.

SECTION 14: Transport Information

New Zealand Land Transport Rule: Dangerous Goods - Road/Rail Transport UN No.: UN3077 Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer) Class/Division: 9 Sub Risk: Not applicable. Packing Group: III

Hazchem Code: 2Z IERG: 47

International Air Transport Association (IATA) - Air Transport UN No.: UN3077 Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. , (4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer) Class/Division: 9 Sub Risk: Not applicable. Packing Group: III Special Instructions:Not restricted, as per Special Provision A197, environmentally hazardous substance exception.

International Maritime Dangerous Goods Code (IMDG) - Marine Transport UN No.: UN3077 Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. , (4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer) Class/Division: 9 Sub Risk: Not applicable. Packing Group: III Marine Pollutant: Not applicable. Special Instructions:Not restricted, as per IMDG code 2.10.2.7, marine pollutant exception.

SECTION 15: Regulatory information

HSNO Approval number	HSR002679
Group standard name	Surface Coatings and Colourants (Carcinogenic) Group Standard 2020
HSNO Hazard classification	Refer to Section 2: Hazard identification

NZ Inventory of Chemicals (NZIoC) Status

All ingredients are listed on the New Zealand Inventory of Chemicals.

Controls in accordance with The Health and Safety at Work Act 2015, Health and Safety at Work (Hazardous Substances) Regulations 2017 and the HSNO Act 1996, Hazardous Substances (Hazardous Property Controls) Notice 2017

2017	
Certified handler	Not required
Location Compliance Certificate	Not required
Hazardous atmosphere zone	Not required
Fire extinguishers	Not required
Emergency response plan	100 L or 100 kg (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L or 1 000 kg (for Acute toxicity Category 4, Skin sensitisation Category 1, Respiratory sensitisation Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L or 10 000 kg (for all other substances)
Secondary containment	100 L or 100 kg (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L or 1 000 kg (for Acute toxicity Category 4, Skin sensitisation Category 1, Respiratory sensitisation Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L or 10 000 kg (for all other substances)
Tracking	Not required
Warning signage	100 L or 100 kg (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L or 1 000 kg (for Serious eye damage Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L or 10 000 kg (for Acute toxicity Category 4 or Hazardous to the aquatic environment Category 4 substances)

SECTION 16: Other information

Revision information:

Initial issue.

Document group:	44-4872-6	Version number:	1.00
Issue Date:	13/07/2025	Supersedes date:	Initial issue.

Key to abbreviations and acronyms

GHS refers to the Globally Harmonised System of Classification and Labelling of Chemicals, 7th revised edition of 2017 **HSNO** means Hazardous Substances and New Organisms Act 1996

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