

Safety Data Sheet

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 Document group:
 33-5983-3
 Version number:
 2.00

 Issue Date:
 20/09/2020
 Supersedes date:
 01/11/2016

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

3MTM Impact Resistant Structural Adhesive PNs 07333

Product Identification Numbers

60-4550-8333-1

1.2. Recommended use and restrictions on use

Recommended use

Automotive. Two-part colour changing adhesive with optimized shear, peel and impact performance.

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:

33-5988-2, 33-5984-1

One or more components of this KIT is classified as a hazardous substance in accordance with the relevant criteria of the HSNO Act 1996, the Hazardous Substances (Classification) Notice 2017 and the Hazardous Substances (Minimum Degrees of Hazard) Notice 2017.

TRANSPORT INFORMATION

The Dangerous Goods Classification for the complete Kit is provided below.

UN No.: UN2735

Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S., (BIS(3-AMINOPROPYL) ETHER OF DIETHYLENE

GLYCOL, METHYLENEDI(CYCLOHEXYLAMINE))

Class/Division: 8
Packing Group: II

Marine Pollutant: Not applicable.

Hazchem Code: 2X

IERG: 36

New Zealand Land Transport Rule: Dangerous Goods - Road/Rail Transport

Special Instructions: Limited quantity may apply

International Maritime Dangerous Goods Code (IMDG) - Marine Transport

Special Instructions: Limited quantity may apply

Revision information:

Complete document review.

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Safety Data Sheet

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 Document group:
 33-5988-2
 Version number:
 2.00

 Issue Date:
 13/09/2020
 Supersedes date:
 01/11/2016

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™ Impact Resistant Structural Adhesive (Part B) PNs 07333

1.2. Recommended use and restrictions on use

Recommended use

Automotive. eBase side of two-part color changing adhesive with optimized shear, peel and impact performance.

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, the Hazardous Substances (Classification) Notice 2017 and Hazardous Substances (Minimum Degrees of Hazard) Notice 2017. Refer to Section 14 of this Safety Data Sheet for product Dangerous Goods Classification.

2.1. Classification of the substance or mixture

GHS	HSNO		
Acute Toxicity (inhalation): Category 5	6.1E Acute toxicity (inhalation)		
Serious Eye Damage/Irritation: Category 2	6.4A Irritating to the eye		
Skin Corrosion/Irritation: Category 3	6.3B Irritating to the skin		
Skin Sensitiser: Category 1	6.5B Skin sensitiser		
Reproductive Toxicity: Category 2	6.8B Suspected human reproductive/developmental		
	toxicant		
Carcinogenicity: Category 2	6.7B Suspected human carcinogen		

Germ Cell Mutagenicity: Category 2	6.6B Suspected human mutagen
Chronic Aquatic Toxicity: Category 2	9.1B Aquatic toxicity (chronic)
Acute Aquatic Toxicity: Category 2	9.1D Aquatic toxicity (acute)

2.2. Label elements SIGNAL WORD

WARNING!

Symbols:

Exclamation mark | Health Hazard | Environment |





HAZARD STATEMENTS:

H333 May be harmful if inhaled.
H319 Causes serious eye irritation.
H316 Causes mild skin irritation.

H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child.

H351 Suspected of causing cancer.

H341 Suspected of causing genetic defects.

H411 Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

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.

P280A Wear eye/face protection. P280E Wear protective gloves.

P273 Avoid release to the environment.

P264B Wash exposed skin thoroughly after handling.

P272A Contaminated work clothing must not be allowed out of the workplace.

Response:

P304 + P312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P337 + P313

If eye irritation persists: Get medical advice/attention.

P302 + P352

IF ON SKIN: Wash with plenty of soap and water.

P332 + P313

If skin irritation occurs: Get medical advice/attention.

P362 + P364

P364

P308 + P313

If eye irritation persists: Get medical advice/attention.

Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

P308 + P313

IF exposed or concerned: Get medical advice/attention.

P321

Specific treatment (see Notes to Physician on this label).

Storage:

P405 Store locked up.

Disposal:

P501

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	% by Weight
Synthetic Rubber	Trade Secret	4 - 20
3-(Trimethoxysilyl)Propyl Glycidyl Ether	2530-83-8	1 - 5
Benzoic Acid, C9-C11-Branched Alkyl Esters	131298-44-7	1 - 5
Inorganic Filler	Trade Secret	1 - 5
Treated Filler	Trade Secret	1 - 5
Treated Inorganic Filler	Trade Secret	1 - 5
Phenolphthalein	77-09-8	< 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

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. 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

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

SubstanceConditionAldehydes.During combustion.Carbon monoxide.During combustion.Carbon dioxide.During combustion.

Hydrogen Chloride

During combustion.

5.3. Special protective actions for fire-fighters

When fire fighting conditions are severe and total thermal decomposition of the product is possible, wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, tunic and trousers (leggings), bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

5.4. Hazchem code: Not applicable.

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 dykes 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 authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. 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.

7.3. Certified handler

Not required

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 Safety Data Sheet.

8.2. Exposure controls

8.2.1. Engineering controls

Provide ventilated enclosure for curing. Curing enclosures must be exhausted to outdoors or to a suitable emission control device. 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:
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

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	Liquid.
Colour	Silver-Grey
Odour	Very Slight Acrylic
Odour threshold	No data available.
рН	No data available.
Melting point/Freezing point	No data available.
Boiling point/Initial boiling point/Boiling range	35 °C
Flash point	103.9 °C [Test Method:Closed Cup]
Evaporation rate	No data available.
Flammability (solid, gas)	Not applicable.
Flammable Limits(LEL)	No data available.

Flammable Limits(UEL)	No data available.	
Vapour pressure	666.6 Pa	
Vapor Density and/or Relative Vapor Density	No data available.	
Density	1.132 g/ml	
Relative density	1.132 [<i>Ref Std</i> :WATER=1]	
Water solubility	No data available.	
Solubility- non-water	No data available.	
Partition coefficient: n-octanol/water	No data available.	
Autoignition temperature	No data available.	
Decomposition temperature	No data available.	
Viscosity/Kinematic Viscosity	100,000 mPa-s - 500,000 mPa-s	
Volatile organic compounds (VOC)	1.6 % weight	
Volatile organic compounds (VOC)	19 g/l	
Percent volatile	1.7 % weight	
VOC less H2O & exempt solvents	19 g/l	
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 polymerisation will not occur.

10.4 Conditions to avoid

Heat.

Sparks and/or flames.

10.5 Incompatible materials

Strong acids.

Strong oxidising 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 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 be harmful if inhaled. Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May cause additional health effects (see below).

Skin contact

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. May cause additional health effects (see below).

Eve contact

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

Ingestion

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May cause additional health effects (see below).

Additional Health Effects:

Reproductive/Developmental Toxicity:

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

Genotoxicity:

Genotoxicity and Mutagenicity: May interact with genetic material and possibly alter gene expression.

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

Toxicological Data

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

Acute Toxicity

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Inhalation- Dust/Mist(4 hr)		No data available; calculated ATE5 - 12.5 mg/l
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Treated Filler	Dermal	Rat	LD50 > 2,000 mg/kg
Treated Filler	Inhalation- Dust/Mist (4 hours)	Rat	LC50 3 mg/l
Treated Filler	Ingestion	Rat	LD50 6,450 mg/kg
Benzoic Acid, C9-C11-Branched Alkyl Esters	Dermal	Rabbit	LD50 > 2,000 mg/kg
Benzoic Acid, C9-C11-Branched Alkyl Esters	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 5 mg/l
Benzoic Acid, C9-C11-Branched Alkyl Esters	Ingestion	Rat	LD50 > 5,000 mg/kg
Treated Inorganic Filler	Dermal	Rabbit	LD50 > 5,000 mg/kg
Treated Inorganic Filler	Inhalation- Dust/Mist	Rat	LC50 > 0.691 mg/l

	(4 hours)		
Treated Inorganic Filler	Ingestion	Rat	LD50 > 5,110 mg/kg
Inorganic Filler	Dermal	Rabbit	LD50 > 5,000 mg/kg
Inorganic Filler	Inhalation-	Rat	LC50 > 0.691 mg/l
	Dust/Mist		
	(4 hours)		
Inorganic Filler	Ingestion	Rat	LD50 > 5,110 mg/kg
3-(Trimethoxysilyl)Propyl Glycidyl Ether	Dermal	Rabbit	LD50 4,000 mg/kg
3-(Trimethoxysilyl)Propyl Glycidyl Ether	Inhalation-	Rat	LC50 > 5.3 mg/l
	Dust/Mist		
	(4 hours)		
3-(Trimethoxysilyl)Propyl Glycidyl Ether	Ingestion	Rat	LD50 7,010 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Treated Filler	Rabbit	No significant irritation
Treated Inorganic Filler	Rabbit	No significant irritation
Inorganic Filler	Rabbit	No significant irritation
3-(Trimethoxysilyl)Propyl Glycidyl Ether	Rabbit	Mild irritant

Serious Eye Damage/Irritation

Name	Species	Value
Treated Filler	Rabbit	No significant irritation
Treated Inorganic Filler	Rabbit	No significant irritation
Inorganic Filler	Rabbit	No significant irritation
3-(Trimethoxysilyl)Propyl Glycidyl Ether	Rabbit	Corrosive

Sensitisation:

Skin Sensitisation

Skin Sensitisation		
Name	Species	Value
Treated Inorganic Filler	Human	Not classified
	and	
	animal	
Inorganic Filler	Human	Not classified
	and	
	animal	
3-(Trimethoxysilyl)Propyl Glycidyl Ether	Guinea	Not classified
	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
Treated Inorganic Filler	In Vitro	Not mutagenic
Inorganic Filler	In Vitro	Not mutagenic
3-(Trimethoxysilyl)Propyl Glycidyl Ether	In vivo	Not mutagenic
3-(Trimethoxysilyl)Propyl Glycidyl Ether	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

curemogeniery			
Name	Route	Species	Value
Treated Inorganic Filler	Not	Mouse	Some positive data exist, but the data are not
	specified.		sufficient for classification
Inorganic Filler	Not	Mouse	Some positive data exist, but the data are not

	specified.		sufficient for classification
3-(Trimethoxysilyl)Propyl Glycidyl Ether	Dermal	Mouse	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Treated Filler	Ingestion	Not classified for development	Rat	NOAEL 625 mg/kg/day	premating & during gestation
Treated Inorganic Filler	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Treated Inorganic Filler	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Treated Inorganic Filler	Ingestion	Not classified for development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis
Inorganic Filler	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Inorganic Filler	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Inorganic Filler	Ingestion	Not classified for development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis
3-(Trimethoxysilyl)Propyl Glycidyl Ether	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	1 generation
3-(Trimethoxysilyl)Propyl Glycidyl Ether	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	1 generation
3-(Trimethoxysilyl)Propyl Glycidyl Ether	Ingestion	Not classified for development	Rat	NOAEL 3,000 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
Treated Filler	Inhalation	respiratory system	Not classified	Rat	NOAEL 0.812 mg/l	90 minutes

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Treated Filler	Inhalation	respiratory system	Not classified	Human	NOAEL Not available	occupational exposure
Treated Inorganic Filler	Inhalation	respiratory system silicosis	Not classified	Human	NOAEL Not available	occupational exposure
Inorganic Filler	Inhalation	respiratory system silicosis	Not classified	Human	NOAEL Not available	occupational exposure
3-(Trimethoxysilyl)Propyl Glycidyl Ether	Ingestion	heart endocrine system bone, teeth, nails, and/or hair hematopoietic system liver immune system nervous system kidney and/or bladder respiratory system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days

Aspiration Hazard

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

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

SECTION 12: Ecological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for 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 (HSNO 9.1D Aquatic toxicity) Chronic Aquatic Toxicity: Category 2 (HSNO 9.1B Aquatic toxicity)

No product test data available.

Material	CAS Number	Organism	Type	Exposure	Test endpoint	Test result
Synthetic	Trade Secret		Data not			
Rubber			available or			
			insufficient for			
			classification			
3-	2530-83-8	Crustecea other	Experimental	48 hours	LC50	324 mg/l
(Trimethoxysil						
yl)Propyl						
Glycidyl Ether						
3-	2530-83-8	Green algae	Experimental	96 hours	EC50	350 mg/l
(Trimethoxysil						
yl)Propyl						
Glycidyl Ether						
3-	2530-83-8	Common Carp	Experimental	96 hours	LC50	55 mg/l
(Trimethoxysil						
yl)Propyl						
Glycidyl Ether						
3-	2530-83-8	Water flea	Experimental	21 days	NOEC	>=100 mg/l
(Trimethoxysil						
yl)Propyl						
Glycidyl Ether						
3-	2530-83-8	Green Algae	Experimental	96 hours	NOEC	130 mg/l
(Trimethoxysil						
yl)Propyl						
Glycidyl Ether						
Benzoic Acid,	131298-44-7		Data not			
C9-C11-			available or			
Branched Alkyl			insufficient for			
Esters			classification			
Inorganic Filler	Trade Secret		Data not			
			available or			
			insufficient for			
			classification			
Treated Filler	Trade Secret	Rainbow trout	Estimated	96 hours	LC50	>100 mg/l
Treated Filler	Trade Secret	Green algae	Estimated	72 hours	EC50	>100 mg/l
Treated Filler	Trade Secret	Water flea	Estimated	48 hours	EC50	>100 mg/l

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Treated Filler	Trade Secret	Green algae	Estimated	72 hours	Effect Concentration 10%	>100 mg/l
Treated Inorganic Filler	Trade Secret		Data not available or insufficient for classification			
Phenolphthalei n	77-09-8	Green algae	Experimental	72 hours	EC50	8.9 mg/l
Phenolphthalei n	77-09-8	Water flea	Experimental	48 hours	EC50	6.72 mg/l
Phenolphthalei n	77-09-8	Green algae	Experimental	72 hours	Effect Concentration 10%	1.9 mg/l

12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Synthetic	Trade Secret	Data not			N/A	
Rubber		availbl-				
		insufficient				
3-	2530-83-8	Experimental		Hydrolytic	6.5 hours (t	Other methods
(Trimethoxysil		Hydrolysis		half-life	1/2)	
yl)Propyl						
Glycidyl Ether						
3-	2530-83-8	Experimental	28 days	Dissolv.	37 % weight	Other methods
(Trimethoxysil		Biodegradation		Organic		
yl)Propyl				Carbon Deplet		
Glycidyl Ether						
Benzoic Acid,	131298-44-7	Data not			N/A	
C9-C11-		availbl-				
Branched Alkyl		insufficient				
Esters						
Inorganic Filler	Trade Secret	Data not			N/A	
		availbl-				
		insufficient				
Treated Filler	Trade Secret	Data not			N/A	
		availbl-				
		insufficient				
Treated	Trade Secret	Data not			N/A	
Inorganic Filler		availbl-				
		insufficient				
Phenolphthalei	77-09-8	Experimental	28 days	BOD	76 %	OECD 301F -
n		Biodegradation			BOD/ThBOD	Manometric
						respirometry

12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Synthetic	Trade Secret	Data not	N/A	N/A	N/A	N/A
Rubber		available or				
		insufficient for				
		classification				
3-	2530-83-8	Data not	N/A	N/A	N/A	N/A
(Trimethoxysil		available or				

yl)Propyl		insufficient for				
Glycidyl Ether		classification				
Benzoic Acid,	131298-44-7	Data not	N/A	N/A	N/A	N/A
C9-C11-		available or				
Branched Alkyl		insufficient for				
Esters		classification				
Inorganic Filler	Trade Secret	Data not	N/A	N/A	N/A	N/A
		available or				
		insufficient for				
		classification				
Treated Filler	Trade Secret	Data not	N/A	N/A	N/A	N/A
		available or				
		insufficient for				
		classification				
Treated	Trade Secret	Data not	N/A	N/A	N/A	N/A
Inorganic Filler		available or				
		insufficient for				
		classification				
Phenolphthalei	77-09-8	Experimental		Log Kow	0.9	Other methods
n		Bioconcentrati				
		on				

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 completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product 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.: Not applicable.

Proper Shipping Name: Not applicable.

Class/Division: Not applicable. Sub Risk: Not applicable. Packing Group: Not applicable.

Hazchem Code: Not applicable.

IERG: Not applicable.

International Air Transport Association (IATA) - Air Transport

UN No.: Not applicable.

Proper Shipping Name: Not applicable.

Class/Division: Not applicable. Sub Risk: Not applicable. Packing Group: Not applicable.

International Maritime Dangerous Goods Code (IMDG) - Marine Transport

UN No.: Not applicable.

Proper Shipping Name: Not applicable.

Class/Division: Not applicable.

Sub Risk: Not applicable.

Packing Group: Not applicable.

Marine Pollutant: Not applicable.

SECTION 15: Regulatory information

HSNO Approval number HSR002679

Group standard name Surface Coatings and Colourants (Toxic [6.7]) Group Standard 2017

HSNO Hazard classification Refer to Section 2: Hazard identification

NZ Inventory of Chemicals (NZIoC) Status

All applicable chemical ingredients in this material are in compliance with NZIoC listing requirements.

Controls in accordance with the Health and Safety at Work (Hazardous Substances) Regulations 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 a HSNO 9.1A substance); or 1,000 L or 1,000 kg (for a

HSNO 6.1D, 6.5A, 6.5B, 9.1B or 9.1C substance); or 10,000 L or 10,000 kg

(for all other substances)

Secondary containment 100 L or 100 kg (for a HSNO 9.1A substance); or 1,000 L or 1,000 kg (for a

HSNO 6.1D, 6.5A, 6.5B, 9.1B or 9.1C substance); or 10,000 L or 10,000 kg

(for all other substances)

Tracking Not required

Warning signage 100 L or 100 kg (for a HSNO 9.1A substance); or 1,000 L or 1,000 kg (for a

HSNO 8.3A, 9.1B or 9.1C substance); or 10,000 L or 10,000 kg (for a HSNO

6.1D or 9.1D substance)

SECTION 16: Other information

Revision information:

Complete document review.

Document group:	33-5988-2	Version number:	2.00
Issue Date:	13/09/2020	Supersedes date:	01/11/2016

Key to abbreviations and acronyms

GHS means the Globally Harmonised System of Classification and Labelling of Chemicals, 5th revised edition 2013

HSNO means Hazardous Substances and New Organisms Act 1996

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Safety Data Sheet

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 Document group:
 33-5984-1
 Version number:
 2.00

 Issue Date:
 20/09/2020
 Supersedes date:
 01/11/2016

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 Impact Resistant Structural Adhesive Part A, PNs 07333, 57333

1.2. Recommended use and restrictions on use

Recommended use

Automotive. Accelerator for two-part color changing adhesive with optimized shear, peel and impact performance.

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, the Hazardous Substances (Classification) Notice 2017 and Hazardous Substances (Minimum Degrees of Hazard) Notice 2017. Refer to Section 14 of this Safety Data Sheet for product Dangerous Goods Classification.

2.1. Classification of the substance or mixture

GHS	HSNO				
Acute Toxicity (oral): Category 4	6.1D Acute toxicity (oral)				
Acute Toxicity (dermal): Category 5	6.1E Acute toxicity (skin)				
Serious Eye Damage/Irritation: Category 1	8.3A Corrosive to eye				
Skin Corrosion/Irritation: Category 1B	8.2B Corrosive to skin				
Skin Sensitiser: Category 1	6.5B Skin sensitiser				
Reproductive Toxicity: Category 2	6.8B Suspected human reproductive/developmental				
	toxicant				

Specific Target Organ Toxicity (repeated exposure):	6.9B Harmful to human target organs/systems
Category 2	
Chronic Aquatic Toxicity: Category 2	9.1B Aquatic toxicity (chronic)
Acute Aquatic Toxicity: Category 3	9.1D Aquatic toxicity (acute)

2.2. Label elements SIGNAL WORD

DANGER!

Symbols:

Corrosion | Exclamation mark | Health Hazard | Environment |

Pictograms



HAZARD STATEMENTS:

H302 Harmful if swallowed.

H313 May be harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure:

liver

musculoskeletal system | kidney/urinary tract

H402 Harmful to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

General:

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.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280D Wear protective gloves, protective clothing, and eye/face protection.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P264B Wash exposed skin thoroughly after handling.

P272A Contaminated work clothing must not be allowed out of the workplace.

Response:

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P310 Immediately call a POISON CENTER or doctor/physician.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel

unwell.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P308 + P313 IF exposed or concerned: Get medical advice/attention.

P321 Specific treatment (see Notes to Physician on this label).

P312 Call a POISON CENTRE or doctor/physician if you feel unwell.

P303 + P361 + P353A IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water or shower.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/container in accordance with applicable

local/regional/national/international regulations.

2.3. Other hazards

Persons previously sensitised to amines may develop a cross-sensitisation reaction to certain other amines. - May cause chemical gastrointestinal burns.

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	% by Weight
Bis(3-Aminopropyl) Ether of Diethylene Glycol	4246-51-9	15 - 40
Epoxy Copolymer	Trade Secret	10 - 30
Aluminium	7429-90-5	5 - 10
Methylenedi(cyclohexylamine)	1761-71-3	5 - 10
Acrylic copolymer	Trade Secret	5 - 10
Synthetic Rubber	Trade Secret	5 - 10
m-Xylenealpha.alpha'.Diamine	1477-55-0	1 - 5
Tris(2,4,6-Dimethylaminomonomethyl)phenol	90-72-2	1 - 5
Inorganic Filler	Trade Secret	1 - 5
Mineral Filler	Trade Secret	1 - 5
Treated Filler	Trade Secret	1 - 5
Formaldehyde, Polymer with Benzenamine, Hydrogenated	135108-88-2	< 2
N-Aminoethylpiperazine	140-31-8	< 0.25
Copper	7440-50-8	< 0.002

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 flush with large amounts of water for at least 15 minutes. Remove contaminated clothing. Get immediate medical attention. Wash clothing before reuse.

Eve contact

Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately 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. Do not induce vomiting. Get immediate medical attention.

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

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.

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: 2X

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 dykes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up

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 authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. 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. Do not breathe 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.

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 m-Xylenealpha.alpha'.Diamine	CAS Nbr 1477-55-0	Agency ACGIH	Limit type CEIL:0.018 ppm	Additional comments Danger of cutaneous
				absorption
m-Xylenealpha.alpha'.Diamine	1477-55-0	New Zealand WES	CEIL: 0.1 mg/m3	Skin
Aluminium	7429-90-5	ACGIH	TWA(respirable fraction):1 mg/m3	A4: Not class. as human carcinogin
Aluminium	7429-90-5	New Zealand WES	TWA(Al, welding fume)(8 hours):5 mg/m3;TWA(as Al pyrophoric powder)(8 hours):5 mg/m3;TWA(as Al, dust)(8 hours):10 mg/m3;TWA(as Al)(8 hours):2 mg/m3	
Copper	7440-50-8	New Zealand WES	TWA(as fume)(8 hours):0.2 mg/m3;TWA(as Cu dust or mist)(8 hours):1 mg/m3	
Copper, dusts and mists, as Cu	7440-50-8	ACGIH	TWA(as Cu dust or mist):1 mg/m3	
Copper, fume as Cu	7440-50-8	ACGIH	TWA(as Cu, fume):0.2 mg/m3	
Inorganic Filler	Trade Secret	Manufacturer determined	TWA(as non-fibrous, respirable)(8 hours):3 mg/m3;TWA(as non-fibrous, inhalable fraction)(8 hours):10 mg/m3	
Inorganic Filler	Trade Secret	ACGIH	TWA(as fiber):0.2 fiber/cc	A2: Suspected human carcin.
Inorganic Filler	Trade Secret	ACGIH	TWA(as fiber):1 fiber/cc	A3: Confirmed animal carcinogen.
Inorganic Filler	Trade Secret	ACGIH	TWA(as fiber):1 fiber/cc	A4: Not class. as human carcinogin
Inorganic Filler	Trade Secret	ACGIH	TWA(inhalable fraction):5 mg/m3	A4: Not class. as human carcinogin
Inorganic Filler	Trade Secret	New Zealand WES	TWA(Respirable fibers)(8 hours):1 f/mL;TWA(as respirable dust)(8 hours):1 f/mL;TWA(as inhalable dust)(8 hours):5 mg/m3	
Mineral Filler	Trade Secret	ACGIH	TWA(inhalable fraction):1 mg/m3	A4: Not class. as human carcinogin
ACGIH: American Conference of Govern	mental Industrial	Hygienists		

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

Provide ventilated enclosure for curing. Curing enclosures must be exhausted to outdoors or to a suitable emission control device. 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:

Full face shield.

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

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 hasic physical	l and chemica	l nronerties

	\mathcal{J}^{n} and \mathcal{I}^{n} and \mathcal{I}^{n} and \mathcal{I}^{n} and \mathcal{I}^{n}
Physical state	Liquid.

Specific Physical Form:	Paste		
Colour	Silver-Grey		
Odour	Very Slight Acrylic		
Odour threshold	No data available.		
рН	No data available.		
Melting point/Freezing point	No data available.		
Boiling point/Initial boiling point/Boiling range	No data available.		
Flash point	103.9 °C [Test Method:Closed Cup]		
Evaporation rate	No data available.		
Flammability (solid, gas)	Not applicable.		
Flammable Limits(LEL)	No data available.		
Flammable Limits(UEL)	No data available.		
Vapour pressure	666.6 Pa		
Vapor Density and/or Relative Vapor Density	No data available.		
Density	1.18 g/ml		
Relative density	1.18 [<i>Ref Std</i> :WATER=1]		
Water solubility	No data available.		
Solubility- non-water	No data available.		
Partition coefficient: n-octanol/water	No data available.		
Autoignition temperature	No data available.		
Decomposition temperature	No data available.		
Viscosity/Kinematic Viscosity	55,000 - 80,000 mPa-s		
Volatile organic compounds (VOC)	0.3 % weight [Test Method: calculated per CARB title 2]		
Volatile organic compounds (VOC)	3 g/l [Test Method:calculated SCAQMD rule 443.1]		
Percent volatile	0.3 % weight		
VOC less H2O & exempt solvents	3 g/l [Test Method:calculated SCAQMD rule 443.1]		
Molecular weight	No data available.		

Nanoparticles

This material does not contain nanoparticles.

SECTION 10: Stability and reactivity

10.1 Reactivity

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

10.2 Chemical stability

Stable.

10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

10.4 Conditions to avoid

Heat.

Sparks and/or flames.

10.5 Incompatible materials

Strong acids.

Strong oxidising agents.

10.6 Hazardous decomposition products

SubstanceConditionAldehydes.Not specified.

Carbon monoxide. Not specified. Carbon dioxide. 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

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

Skin contact

May be harmful in contact with skin.

Corrosive (skin burns): Signs/symptoms may include localised redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Eve contact

Corrosive (eye burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

Ingestion

Harmful if swallowed.

Gastrointestinal corrosion: Signs/symptoms may include severe mouth, throat and abdominal pain, nausea, vomiting, and diarrhea; blood in the faeces and/or vomitus may also be seen. May cause additional health effects (see below).

Additional Health Effects:

Prolonged or repeated exposure may cause target organ effects:

Liver effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice. Muscular effects: Signs/symptoms may include generalised muscle weakness, paralysis and atrophy. Kidney/Bladder effects: Signs/symptoms may include changes in urine production, abdominal or lower back pain, increased protein in urine, increased blood urea nitrogen (BUN), blood in urine, and painful urination.

Reproductive/Developmental Toxicity:

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

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 ATE2,000 - 5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE300 - 2,000 mg/kg
Bis(3-Aminopropyl) Ether of Diethylene Glycol	Dermal	Rabbit	LD50 2,500 mg/kg
Bis(3-Aminopropyl) Ether of Diethylene Glycol	Ingestion	Rat	LD50 3,160 mg/kg
Aluminium	Dermal		LD50 estimated to be > 5,000 mg/kg
Aluminium	Ingestion		LD50 estimated to be > 5,000 mg/kg
Aluminium	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 0.888 mg/l
Methylenedi(cyclohexylamine)	Dermal	Rabbit	LD50 2,110 mg/kg
Methylenedi(cyclohexylamine)	Ingestion	Rat	LD50 350 mg/kg
Mineral Filler	Dermal		LD50 estimated to be > 5,000 mg/kg
Mineral Filler	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
Synthetic Rubber	Dermal	Rabbit	LD50 > 3,000 mg/kg
Synthetic Rubber	Ingestion	Rat	LD50 > 15,300 mg/kg
Treated Filler	Dermal	Rat	LD50 > 2,000 mg/kg
Treated Filler	Inhalation- Dust/Mist (4 hours)	Rat	LC50 3 mg/l
Treated Filler	Ingestion	Rat	LD50 6,450 mg/kg
Tris(2,4,6-Dimethylaminomonomethyl)phenol	Dermal	Rat	LD50 1,280 mg/kg
Tris(2,4,6-Dimethylaminomonomethyl)phenol	Ingestion	Rat	LD50 1,000 mg/kg
m-Xylenealpha.alpha'.Diamine	Dermal	Rabbit	LD50 > 2,000 mg/kg
m-Xylenealpha.alpha'.Diamine	Inhalation- Dust/Mist (4 hours)	Rat	LC50 1.2 mg/l
m-Xylenealpha.alpha'.Diamine	Ingestion	Rat	LD50 980 mg/kg
Formaldehyde, Polymer with Benzenamine, Hydrogenated	Dermal	Rat	LD50 > 700 mg/kg
Formaldehyde, Polymer with Benzenamine, Hydrogenated	Ingestion	Rat	LD50 300 mg/kg
Inorganic Filler	Dermal		LD50 estimated to be > 5,000 mg/kg
Inorganic Filler	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
N-Aminoethylpiperazine	Dermal	Rabbit	LD50 865 mg/kg
N-Aminoethylpiperazine	Ingestion	Rat	LD50 1,470 mg/kg
Copper	Dermal	Rat	LD50 > 2,000 mg/kg
Copper	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 5.11 mg/l
Copper	Ingestion	Rat	LD50 > 2,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Bis(3-Aminopropyl) Ether of Diethylene Glycol	Rabbit	Corrosive
Aluminium	Rabbit	No significant irritation
Methylenedi(cyclohexylamine)	Rabbit	Corrosive
Synthetic Rubber	Rabbit	Irritant
Treated Filler	Rabbit	No significant irritation
Tris(2,4,6-Dimethylaminomonomethyl)phenol	Rabbit	Corrosive
m-Xylenealpha.alpha'.Diamine	Rat	Corrosive
Formaldehyde, Polymer with Benzenamine, Hydrogenated	In vitro	Corrosive
	data	
Inorganic Filler	Professio	No significant irritation
	nal	
	judgemen	
	t	
N-Aminoethylpiperazine	Rabbit	Corrosive
Copper	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Bis(3-Aminopropyl) Ether of Diethylene Glycol	similar	Corrosive
	health	
	hazards	
Aluminium	Rabbit	No significant irritation
Methylenedi(cyclohexylamine)	Rabbit	Corrosive
Synthetic Rubber	Rabbit	Mild irritant
Treated Filler	Rabbit	No significant irritation
Tris(2,4,6-Dimethylaminomonomethyl)phenol	Rabbit	Corrosive
m-Xylenealpha.alpha'.Diamine	Rabbit	Corrosive
Formaldehyde, Polymer with Benzenamine, Hydrogenated	similar	Corrosive
	health	
	hazards	
Inorganic Filler	Professio	No significant irritation
	nal	
	judgemen	
	t	
N-Aminoethylpiperazine	Rabbit	Corrosive
Copper	Rabbit	Mild irritant

Sensitisation:

Skin Sensitisation

Name	Species	Value
Aluminium	Guinea	Not classified
	pig	
Methylenedi(cyclohexylamine)	Guinea	Sensitising
	pig	
Synthetic Rubber	Guinea	Sensitising
	pig	
Tris(2,4,6-Dimethylaminomonomethyl)phenol	Guinea	Not classified
	pig	
m-Xylenealpha.alpha'.Diamine	Guinea	Sensitising
	pig	
Formaldehyde, Polymer with Benzenamine, Hydrogenated	Professio	Sensitising
	nal	
	judgemen	
	t	
N-Aminoethylpiperazine	Guinea	Sensitising
	pig	

Respiratory Sensitisation

Name	Species	Value
Aluminium	Human	Not classified

Germ Cell Mutagenicity

Name	Route	Value
Aluminium	In Vitro	Not mutagenic
Mineral Filler	In Vitro	Not mutagenic
Tris(2,4,6-Dimethylaminomonomethyl)phenol	In Vitro	Not mutagenic
m-Xylenealpha.alpha'.Diamine	In Vitro	Not mutagenic
m-Xylenealpha.alpha'.Diamine	In vivo	Not mutagenic
Formaldehyde, Polymer with Benzenamine, Hydrogenated	In Vitro	Not mutagenic
Inorganic Filler	In Vitro	Some positive data exist, but the data are not
		sufficient for classification
N-Aminoethylpiperazine	In vivo	Not mutagenic
N-Aminoethylpiperazine	In Vitro	Some positive data exist, but the data are not
		sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Inorganic Filler	Inhalation	Multiple animal species	Some positive data exist, but the data are not sufficient for classification

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route Value S		Species	Test result	Exposure Duration	
Treated Filler	Ingestion	Not classified for development	Rat	NOAEL 625 mg/kg/day	premating & during gestation	
m-Xylenealpha.alpha'.Diamine	Ingestion	Not classified for female reproduction	Rat	NOAEL 450 mg/kg/day	1 generation	
m-Xylenealpha.alpha'.Diamine	Ingestion	Not classified for male reproduction	Rat	NOAEL 450 mg/kg	1 generation	
m-Xylenealpha.alpha'.Diamine	Ingestion	Not classified for development	Rat	NOAEL 450 mg/kg/day	1 generation	
Formaldehyde, Polymer with Benzenamine, Hydrogenated	Ingestion	Not classified for female reproduction	Rat	NOAEL 140 mg/kg/day	premating into lactation	
Formaldehyde, Polymer with Benzenamine, Hydrogenated	Ingestion	Not classified for male reproduction	Rat	NOAEL 140 mg/kg/day	28 days	
Formaldehyde, Polymer with Benzenamine, Hydrogenated	Ingestion	Not classified for development	Rat	NOAEL 280 mg/kg/day	during gestation	
N-Aminoethylpiperazine	Ingestion	Not classified for female reproduction	Rat	NOAEL 598 mg/kg/day	premating & during gestation	
N-Aminoethylpiperazine	Ingestion	Not classified for male reproduction	Rat	NOAEL 409 mg/kg/day	32 days	
N-Aminoethylpiperazine	Ingestion	Toxic to development	Rabbit	NOAEL 75 mg/kg/day	during gestation	

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Bis(3-Aminopropyl) Ether of Diethylene Glycol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
Methylenedi(cyclohexylam ine)	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	
Synthetic Rubber	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL not available	
Treated Filler	Inhalation	respiratory system	Not classified	Rat	NOAEL 0.812 mg/l	90 minutes
Tris(2,4,6- Dimethylaminomonomethy l)phenol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
m- Xylenealpha.alpha'.Diami ne	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Not available	NOAEL Not avaliable	
Formaldehyde, Polymer with Benzenamine, Hydrogenated	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
N-Aminoethylpiperazine	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure

						Duration
Aluminium	Inhalation	nervous system respiratory system	Not classified	Human	NOAEL Not available	occupational exposure
Methylenedi(cyclohexyla mine)	Ingestion	liver muscles	May cause damage to organs though prolonged or repeated exposure	Rat	NOAEL 15 mg/kg/day	36 days
Mineral Filler	Inhalation	respiratory system	Not classified	Human	NOAEL Not available	occupational exposure
Mineral Filler	Inhalation	pulmonary fibrosis	Not classified	Human and animal	NOAEL Not available	
Treated Filler	Inhalation	respiratory system	Not classified	Human	NOAEL Not available	occupational exposure
Tris(2,4,6- Dimethylaminomonometh yl)phenol	Dermal	skin liver nervous system auditory system hematopoietic system eyes	Not classified	Rat	NOAEL 125 mg/kg/day	28 days
m- Xylenealpha.alpha'.Diam ine	Ingestion	endocrine system blood bone marrow	Not classified	Rat	NOAEL 600 mg/kg/day	28 days
Formaldehyde, Polymer with Benzenamine, Hydrogenated	Ingestion	kidney and/or bladder	May cause damage to organs though prolonged or repeated exposure	Rat	NOAEL 15 mg/kg/day	28 days
Formaldehyde, Polymer with Benzenamine, Hydrogenated	Ingestion	endocrine system hematopoietic system liver nervous system	Not classified	Rat	NOAEL 300 mg/kg/day	28 days
Inorganic Filler	Inhalation	respiratory system	Not classified	Human	NOAEL not available	occupational exposure
N-Aminoethylpiperazine	Dermal	skin	Not classified	Rat	NOAEL 100 mg/kg/day	29 days
N-Aminoethylpiperazine	Dermal	hematopoietic system nervous system kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	29 days
N-Aminoethylpiperazine	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	NOAEL 0.2 mg/m3	13 weeks
N-Aminoethylpiperazine	Inhalation	hematopoietic system eyes kidney and/or bladder	Not classified	Rat	NOAEL 53.8 mg/m3	13 weeks
N-Aminoethylpiperazine	Ingestion	heart endocrine system hematopoietic system liver nervous system kidney and/or bladder	Not classified	Rat	NOAEL 598 mg/kg/day	28 days

Aspiration Hazard

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

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

SECTION 12: Ecological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for 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 3 (HSNO 9.1D Aquatic toxicity) Chronic Aquatic Toxicity: Category 2 (HSNO 9.1B Aquatic toxicity)

No product test data available.

Material	CAS Number	Organism	Type	Exposure	Test endpoint	Test result
Bis(3-	4246-51-9	Green algae	Experimental	72 hours	EC50	>500 mg/l
Aminopropyl)						
Ether of						
Diethylene						
Glycol						
Bis(3-	4246-51-9	Golden Orfe	Experimental	96 hours	LC50	>1,000 mg/l
Aminopropyl)						
Ether of						
Diethylene						
Glycol						
Bis(3-	4246-51-9	Water flea	Experimental	48 hours	EC50	218.16 mg/l
Aminopropyl)						
Ether of						
Diethylene						
Glycol						
Bis(3-	4246-51-9	Green algae	Experimental	72 hours	Effect	5.4 mg/l
Aminopropyl)					Concentration	
Ether of					10%	
Diethylene						
Glycol						
Epoxy	Trade Secret		Data not			
Copolymer			available or			
			insufficient for			
			classification			
Acrylic	Trade Secret		Data not			
copolymer			available or			
			insufficient for			
			classification			
Aluminium	7429-90-5	Water flea	Experimental	48 hours	No tox obs at	>100 mg/l
					lmt of water sol	
Aluminium	7429-90-5	Fish other	Experimental	96 hours	No tox obs at	>100 mg/l
					lmt of water sol	
Aluminium	7429-90-5	Green Algae	Experimental	72 hours	No tox obs at	>100 mg/l
					lmt of water sol	
Aluminium	7429-90-5	Water flea	Experimental	21 days	NOEC	0.076 mg/l
Aluminium	7429-90-5	Green Algae	Experimental	72 hours	No tox obs at	100 mg/l
					lmt of water sol	
Methylenedi(cy	1761-71-3	Algae	Experimental	72 hours	EC50	2,164 mg/l
clohexylamine)						
Methylenedi(cy	1761-71-3	Golden Orfe	Experimental	96 hours	LC50	>100 mg/l
clohexylamine)						
Methylenedi(cy	1761-71-3	Water flea	Experimental	48 hours	EC50	7.07 mg/l
clohexylamine)						
Methylenedi(cy	1761-71-3	Algae	Experimental	72 hours	Effect	100 mg/l
clohexylamine)					Concentration	
					10%	
Methylenedi(cy	1761-71-3	Water flea	Estimated	21 days	NOEC	4 mg/l

alahannina)	I	1	Ī	Ī	I	<u> </u>
clohexylamine)	Tue de Cont	1	Data est			
Synthetic	Trade Secret	1	Data not			
Rubber			available or			
			insufficient for			
T : E:11	T. 1 C. 4	C 1	classification	70.1	EG50	1.000 /1
Inorganic Filler		Green algae	Experimental	72 hours	EC50	>1,000 mg/l
Inorganic Filler	Trade Secret	Water flea	Experimental	72 hours	EC50	>1,000 mg/l
Inorganic Filler		Zebra Fish	Experimental	96 hours	LC50	>1,000 mg/l
Inorganic Filler		Green algae	Experimental	72 hours	NOEC	>=1,000 mg/l
Mineral Filler	Trade Secret		Data not			
			available or			
			insufficient for			
			classification			
m-	1477-55-0	Ricefish	Experimental	96 hours	LC50	87.6 mg/l
Xylenealpha.a						
lpha'.Diamine						
m-	1477-55-0	Green Algae	Experimental	72 hours	EC50	28 mg/l
Xylenealpha.a						
lpha'.Diamine						
m-	1477-55-0	Water flea	Experimental	48 hours	EC50	15.2 mg/l
Xylenealpha.a						
lpha'.Diamine						
m-	1477-55-0	Water flea	Experimental	21 days	NOEC	4.7 mg/l
Xylenealpha.a			_			
lpha'.Diamine						
m-	1477-55-0	Green Algae	Experimental	72 hours	NOEC	9.8 mg/l
Xylenealpha.a			1			
lpha'.Diamine						
Treated Filler	Trade Secret	Rainbow trout	Estimated	96 hours	LC50	>100 mg/l
Treated Filler	Trade Secret	Water flea	Estimated	48 hours	EC50	>100 mg/l
Treated Filler	Trade Secret	Green algae	Estimated	72 hours	EC50	>100 mg/l
Treated Filler	Trade Secret	Green algae	Estimated	72 hours	Effect	>100 mg/l
					Concentration	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
					10%	
Tris(2,4,6-	90-72-2	Grass Shrimp	Experimental	96 hours	LC50	718 mg/l
Dimethylamino	00 72 2	Grass Smanp	Emperimentar) o nours	Leso	/ 10 mg/1
monomethyl)p						
henol						
Tris(2,4,6-	90-72-2	Common Carp	Experimental	96 hours	LC50	175 mg/l
Dimethylamino	00 72 2	Common curp	Emperimentar) o nours	Leso	175 1118/1
monomethyl)p						
henol		1				
Tris(2,4,6-	90-72-2	Green algae	Experimental	72 hours	EC50	84 mg/l
Dimethylamino		Ciccii digue	Lapormionum	, 2 110413		0.1116/1
monomethyl)p		1				
henol		1				
Tris(2,4,6-	90-72-2	Green algae	Experimental	72 hours	NOEC	6.25 mg/l
Dimethylamino	[· · · - · -	sittin uigut		- 110 415		
monomethyl)p						
henol		1				
Formaldehyde,	135108-88-2	Green algae	Experimental	72 hours	EC50	43.94 mg/l
Polymer with	155100 00 2	Ciccii digue	Lapormionui	, 2 110413		13.711116/1
Benzenamine,						
Hydrogenated						
11, 410,50114104	l .	1	l	I	I	I

Formaldehyde, Polymer with Benzenamine,	135108-88-2	Water flea	Experimental	48 hours	EC50	15.4 mg/l
Hydrogenated						
Formaldehyde,	135108-88-2	Guppy	Experimental	96 hours	LC50	63 mg/l
Polymer with						
Benzenamine,						
Hydrogenated						
Formaldehyde,	135108-88-2	Green algae	Experimental	72 hours	Effect	1.2 mg/l
Polymer with					Concentration	
Benzenamine,					10%	
Hydrogenated						
N-	140-31-8	Golden Orfe	Experimental	96 hours	LC50	368 mg/l
Aminoethylpip						
erazine			1			
N-	140-31-8	Water flea	Experimental	48 hours	EC50	58 mg/l
Aminoethylpip						
erazine			<u> </u>			
N-	140-31-8	Green Algae	Experimental	72 hours	EC50	>1,000 mg/l
Aminoethylpip						
erazine	110010				21000	
N-	140-31-8	Green Algae	Experimental	72 hours	NOEC	31 mg/l
Aminoethylpip						
erazine	7440.50.0	[C 41		72.1	NOEG	0.0002 //
Copper	7440-50-8	Green Algae	Experimental	72 hours	NOEC	0.0003 mg/l

12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Bis(3- Aminopropyl) Ether of Diethylene Glycol	4246-51-9	Estimated Photolysis		Photolytic half- life (in air)	2.96 hours (t 1/2)	Other methods
Bis(3- Aminopropyl) Ether of Diethylene Glycol	4246-51-9	Experimental Biodegradation	25 days	CO2 evolution	-8 %CO2 evolution/THC O2 evolution	OECD 301B - Modified sturm or CO2
Epoxy Copolymer	Trade Secret	Data not availbl-insufficient			N/A	
Acrylic copolymer	Trade Secret	Data not availbl-insufficient			N/A	
Aluminium	7429-90-5	Data not availbl-insufficient			N/A	
Methylenedi(cy clohexylamine)	1761-71-3	Estimated Biodegradation	28 days	BOD	42 % weight	OECD 301C - MITI test (I)
Synthetic Rubber	Trade Secret	Data not availbl-insufficient			N/A	
Inorganic Filler	Trade Secret	Data not availbl-			N/A	

		insufficient				
Mineral Filler	Trade Secret	Data not availbl- insufficient			N/A	
m- Xylenealpha.a lpha'.Diamine	1477-55-0	Experimental Biodegradation	28 days	CO2 evolution	49 %CO2 evolution/THC O2 evolution	OECD 301B - Modified sturm or CO2
Treated Filler	Trade Secret	Data not availbl- insufficient			N/A	
Tris(2,4,6- Dimethylamino monomethyl)p henol	90-72-2	Experimental Biodegradation	28 days	BOD	4 % weight	OECD 301D - Closed bottle test
Formaldehyde, Polymer with Benzenamine, Hydrogenated	135108-88-2	Experimental Biodegradation	28 days	BOD	0 % weight	Other methods
N- Aminoethylpip erazine	140-31-8	Experimental Biodegradation	28 days	BOD	0 % BOD/ThBOD	OECD 301C - MITI test (I)
Copper	7440-50-8	Data not availbl- insufficient			N/A	

12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Bis(3- Aminopropyl) Ether of Diethylene Glycol	4246-51-9	Experimental Bioconcentrati on		Log Kow	-1.25	Other methods
Epoxy Copolymer	Trade Secret	Estimated Bioconcentrati on		Bioaccumulatio n factor	2.9	Estimated: Bioconcentration factor
Acrylic copolymer	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Aluminium	7429-90-5	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Methylenedi(cy clohexylamine)	1761-71-3	Estimated Bioconcentrati on		Bioaccumulatio n factor	160	Estimated: Bioconcentration factor
Synthetic Rubber	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Inorganic Filler	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

Mineral Filler	Trade Secret	Data not available or	N/A	N/A	N/A	N/A
		insufficient for classification				
m- Xylenealpha.a lpha'.Diamine	1477-55-0	Experimental BCF-Carp	42 days	Bioaccumulatio n factor	<2.7	OECD 305E - Bioaccumulation flow- through fish test
Treated Filler	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Tris(2,4,6- Dimethylamino monomethyl)p henol	90-72-2	Experimental Bioconcentrati on		Log Kow	-0.66	Other methods
Formaldehyde, Polymer with Benzenamine, Hydrogenated	135108-88-2	Experimental BCF-Carp	56 days	Bioaccumulatio n factor	≤219	OECD 305E - Bioaccumulation flow- through fish test
N- Aminoethylpip erazine	140-31-8	Experimental Bioconcentrati on		Log Kow	0.3	Other methods
Copper	7440-50-8	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 completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product 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.: UN2735

Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. , (BIS(3-AMINOPROPYL) ETHER of DIETHYLENE GLYCOL, METHYLENEDI(CYCLOHEXYLAMINE))

Class/Division: 8

Sub Risk: Not applicable. **Packing Group:** II

Special Instructions: Limited quantity may apply

Hazchem Code: 2X

IERG: 36

International Air Transport Association (IATA) - Air Transport

UN No.: UN2735

Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S., (BIS(3-AMINOPROPYL) ETHER of DIETHYLENE

GLYCOL, METHYLENEDI(CYCLOHEXYLAMINE))

Class/Division: 8

Sub Risk: Not applicable. **Packing Group:** II

International Maritime Dangerous Goods Code (IMDG) - Marine Transport

UN No.: UN2735

Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S., (BIS(3-AMINOPROPYL) ETHER of DIETHYLENE

GLYCOL, METHYLENEDI(CYCLOHEXYLAMINE))

Class/Division: 8

Sub Risk: Not applicable. **Packing Group:** II

Marine Pollutant: Not applicable.

Special Instructions:Limited quantity may apply

SECTION 15: Regulatory information

HSNO Approval number HSR002658

Group standard name Surface Coatings and Colourants (Corrosive) Group Standard 2017

HSNO Hazard classification Refer to Section 2: Hazard identification

NZ Inventory of Chemicals (NZIoC) Status

All applicable chemical ingredients in this material are in complaince with NZIoC listing requirements.

Controls in accordance with the Health and Safety at Work (Hazardous Substances) Regulations 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 a HSNO 9.1A substance); or 1,000 L or 1,000 kg (for a

HSNO 6.1D, 6.5A, 6.5B, 8.2B, 9.1B or 9.1C substance); or 10,000 L or 10,000

kg (for all other substances)

Secondary containment 100 L or 100 kg (for a HSNO 9.1A substance); or 1,000 L or 1,000 kg (for a

HSNO 6.1D, 6.5A, 6.5B, 8.2B, 9.1B or 9.1C substance); or 10,000 L or 10,000

kg (for all other substances)

Tracking Not required

Warning signage 100 L or 100 kg (for a HSNO 9.1A substance); or 250 L or 250 kg (for a

HSNO 8.2B substance); or 1.000 L or 1,000 kg (for all other substances)

SECTION 16: Other information

Revision information:

Complete document review.

Document group: 33-5984-1	Version number: 2.00)
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3M TM Impact Resistant Structural Adhesive Part A,	PNs 07333,	57333

Issue Date:	20/09/2020	Supersedes date:	01/11/2016
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Key to abbreviations and acronyms

GHS means the Globally Harmonised System of Classification and Labelling of Chemicals, 5th revised edition 2013 HSNO means Hazardous Substances and New Organisms Act 1996

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