

## **Safety Data Sheet**

 $\odot$  2020, 3M Company All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

Document group:	11-3461-8	Version number:	3.00
Issue Date:	22/11/2020	Supersedes date:	30/11/2017

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<sup>™</sup> Scotch-Weld<sup>™</sup> PUR Adhesive TS230

**Product Identification Numbers** 62-3870-5238-4

#### 1.2. Recommended use and restrictions on use

#### **Recommended use**

Curing hot melt adhesive. Structural adhesive.

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		
Skin Corrosion/Irritation: Category 3	6.3B Irritating to the skin		
Respiratory Sensitiser: Category 1	6.5A Respiratory sensitiser		
Skin Sensitiser: Category 1	6.5B Skin sensitiser		
Specific Target Organ Toxicity (repeated exposure):	6.9A Toxic to human target organs/systems		

Category 1	
No GHS Equivalent	9.3B Terrestrial vertebrate toxicity

#### **2.2. Label elements SIGNAL WORD** DANGER!

## Symbols: Health Hazard | Environment |

#### Pictograms



HAZARD STATEMENTS:	
H316	Causes mild skin irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H372	Causes damage to organs through prolonged or repeated exposure: respiratory system
H432	Toxic to terrestrial vertebrates.

#### **PRECAUTIONARY STATEMENTS**

Prevention:			
P260	Do not breathe dust/fume/gas/mist/vapours/spray.		
P284A	In case of inadequate ventilation wear respiratory protection.		
P280E	Wear protective gloves.		
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.		
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or		
	doctor/physician.		
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.		
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.		
P362 + P364	Take off contaminated clothing and wash it before reuse.		
P314	Get medical advice/attention if you feel unwell.		
P391	Collect spillage.		
Disposal:			
P501	Dispose of contents/container in accordance with applicable local/regional/national/international regulations.		

## 2.3. Other hazards

Persons previously sensitised to isocyanates may develop a cross-sensitisation reaction to other isocyanates. May cause thermal burns.

# **SECTION 3: Composition/information on ingredients**

Ingredient	CAS Nbr	% by Weight
P,P'-Diphenylmethane Diisocyanate (MDI)	101-68-8	< 3
Polyurethane Resin	Trade Secret	> 97

## **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 skin with large amounts of cold water for at least 15 minutes. DO NOT ATTEMPT TO REMOVE MOLTEN MATERIAL. Cover affected area with a clean dressing. Get immediate medical attention.

#### Eye contact

Immediately flush eyes with large amounts of water for at least 15 minutes. DO NOT ATTEMPT TO REMOVE MOLTEN MATERIAL. Get immediate medical attention.

#### 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

<u>Substance</u>	<u>Condition</u>
Amine compounds.	During combustion.
Isocyanates	During combustion.
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.
Hydrogen cyanide.	During combustion.
Oxides of nitrogen.	During combustion.

#### 5.3. Special protective actions for fire-fighters

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

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.

#### 6.3. Methods and material for containment and cleaning up

Pour isocyanate decontaminant solution (90% water, 8% concentrated ammonia, 2% detergent) on spill and allow to react for 10 minutes. Or pour water on spill and allow to react for more than 30 minutes. Cover with absorbent material. Collect as much of the spilled material as possible. Place in a container approved for transportation by appropriate authorities, but do not seal the container for 48 hours to avoid pressure build-up. Clean up residue. 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

Avoid skin contact with hot material. For industrial/occupational use only. Not for consumer sale or use. 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. Wash contaminated clothing before reuse.

#### 7.2. Conditions for safe storage including any incompatibilities

Keep container tightly closed to prevent contamination with water or air. If contamination is suspected, do not reseal container. Store away from heat. 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
Free isocyanates	101-68-8	New Zealand	TWA(as NCO)(8 hours):0.02	Capable of csng
		WES	mg/m3;STEL(as NCO)(15 minutes):0.07 mg/m3	resp/skin sens, Dermal sensitiser, Respiratory sensitiser
P,P'-Diphenylmethane	101-68-8	ACGIH	TWA:0.005 ppm	
Diisocyanate (MDI)				
ACGIH : American Conference of Govern		Hygienists		
AIHA : American Industrial Hygiene Asso				
CMRG : Chemical Manufacturer's Recom				
New Zealand WES : New Zealand Workp TWA: Time-Weighted-Average	lace Exposure Sta	andards.		
STEL: Short Term Exposure Limit				
ppm: parts per million				
mg/m <sup>3</sup> : 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: 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.

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

Nitrile rubber.

#### **Respiratory protection**

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates

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

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

#### Thermal hazards

Wear heat insulating gloves when handling hot material to prevent thermal burns.

# **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state	te Solid.	
Specific Physical Form:	Waxy Solid	
Colour	White-Yellow	
Odour	Mild Odour	
Odour threshold	No data available.	
pH Not applicable.		

Melting point/Freezing point	No data available.		
Boiling point/Initial boiling point/Boiling range	> 148.9 °C		
Flash point	> 148.9 °C		
Evaporation rate	No data available.		
Flammability (solid, gas)	Not classified		
Flammable Limits(LEL)	No data available.		
Flammable Limits(UEL)	No data available.		
Vapour pressure	0 Pa [@ 25 °C ] [Details:MDI]		
Vapor Density and/or Relative Vapor Density	8.6 [ <i>Ref Std</i> :AIR=1] [ <i>Details</i> :MDI]		
Density	1.16 g/cm3		
Relative density	1.16 [ <i>Ref Std</i> :WATER=1]		
Water solubility	Nil		
Solubility- non-water	No data available.		
Partition coefficient: n-octanol/water	No data available.		
Autoignition temperature	No data available.		
Decomposition temperature	No data available.		
Viscosity/Kinematic Viscosity	9,000 mPa-s [@ 121.1 °C ] [Test Method:Brookfield]		
Volatile organic compounds (VOC)			
Percent volatile			
VOC less H2O & exempt solvents	0 g/l [Test Method:calculated SCAQMD rule 443.1]		
VOC less H2O & exempt solvents	0 % [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.

#### **10.5 Incompatible materials**

Amines. Alcohols.

Reaction with water, alcohols, and amines is not hazardous if container can vent to the atmosphere to prevent pressure buildup.

#### 10.6 Hazardous decomposition products

Substance None known.

<u>Condition</u>

Refer to Section 5.2 for hazardous decomposition products during combustion.

# **SECTION 11: Toxicological information**

#### 3M<sup>™</sup> Scotch-Weld<sup>™</sup> PUR Adhesive TS230

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. Allergic respiratory reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest. May cause additional health effects (see below).

#### Skin contact

During heating:

Thermal burns: Signs/symptoms may include intense pain, redness and swelling, and tissue destruction. 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

During heating:

Thermal burns: Signs/symptoms may include severe pain, redness and swelling, and tissue destruction.

#### Ingestion

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

#### **Additional Health Effects:**

#### Prolonged or repeated exposure may cause target organ effects:

Respiratory effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish coloured skin (cyanosis), sputum production, changes in lung function tests, and respiratory failure.

#### Additional information:

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

#### **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**

Route	Species	Value
Inhalation-		No data available; calculated ATE >50 mg/l
Vapor(4 hr)		
Ingestion		No data available; calculated ATE >5,000 mg/kg
Dermal	Rabbit	LD50 > 5,000 mg/kg
Inhalation-	Rat	LC50 0.368 mg/l
Dust/Mist		-
(4 hours)		
Ingestion	Rat	LD50 31,600 mg/kg
	Inhalation- Vapor(4 hr) Ingestion Dermal Inhalation- Dust/Mist (4 hours)	Inhalation- Vapor(4 hr)   Ingestion   Dermal Rabbit   Inhalation- Dust/Mist (4 hours) Rat

ATE = acute toxicity estimate

## 3M<sup>TM</sup> Scotch-Weld<sup>TM</sup> PUR Adhesive TS230

## Skin Corrosion/Irritation

Name	Species	Value
P,P'-Diphenylmethane Diisocyanate (MDI)	official classificat	Irritant
	ion	

#### Serious Eye Damage/Irritation

Name	Species	Value
P,P'-Diphenylmethane Diisocyanate (MDI)	official classificat ion	Severe irritant

## Sensitisation:

#### **Skin Sensitisation**

Name	Species	Value
P,P'-Diphenylmethane Diisocyanate (MDI)	official classificat ion	Sensitising

## **Respiratory Sensitisation**

Name	Species	Value
P,P'-Diphenylmethane Diisocyanate (MDI)	Human	Sensitising

#### Germ Cell Mutagenicity

Name	Route	Value
P,P'-Diphenylmethane Diisocyanate (MDI)	In Vitro	Some positive data exist, but the data are not sufficient for classification

#### Carcinogenicity

Name	Route	Species	Value
P,P'-Diphenylmethane Diisocyanate (MDI)	Inhalation	Rat	Some positive data exist, but the data are not
			sufficient for classification

## **Reproductive Toxicity**

## **Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test result	Exposure Duration
P,P'-Diphenylmethane Diisocyanate (MDI)	Inhalation	Not classified for development	Rat	NOAEL 0.004 mg/l	during organogenesis

## Target Organ(s)

## Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure
						Duration
P,P'-Diphenylmethane Diisocyanate (MDI)	Inhalation	respiratory irritation	May cause respiratory irritation	official classifica tion	NOAEL Not available	

#### Specific Target Organ Toxicity - repeated exposure

 peeme rangee organ	I ownerty 1	epeuteu exposure				
Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration

#### 3M<sup>TM</sup> Scotch-Weld<sup>TM</sup> PUR Adhesive TS230

P,P'-Diphenylmethane	Inhalation	respiratory system	Causes damage to organs through	Rat	LOAEL	13 weeks
Diisocyanate (MDI)			prolonged or repeated exposure		0.004 mg/l	

#### **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 terrestrial vertebrates**

9.3B Terrestrial vertebrate toxicity

No product test data available.

Material	CAS Number	Organism	Туре	Exposure	Test endpoint	Test result
P,P'-	101-68-8	Green algae	Estimated	72 hours	EC50	>1,640 mg/l
Diphenylmetha						-
ne						
Diisocyanate						
(MDI)						
P,P'-	101-68-8	Water flea	Estimated	24 hours	EC50	>1,000 mg/l
Diphenylmetha						
ne						
Diisocyanate						
(MDI)						
P,P'-	101-68-8	Zebra Fish	Estimated	96 hours	LC50	>1,000 mg/l
Diphenylmetha						
ne						
Diisocyanate						
(MDI)	101 (0.0			70.1	NOEG	1 (40 /1
P,P'-	101-68-8	Green algae	Estimated	72 hours	NOEC	1,640 mg/l
Diphenylmetha ne						
Diisocyanate						
(MDI)						
P,P'-	101-68-8	Water flea	Estimated	21 days	NOEC	10 mg/l
Diphenylmetha		Water fied	Estimated	21 duy5	I COLC	10 115/1
ne						
Diisocyanate						
(MDI)						
Polyurethane	Trade Secret		Data not	1		
Resin			available or			
			insufficient for			
			classification			

#### 12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
P,P'-	101-68-8	Estimated		Hydrolytic	20 hours (t 1/2)	Other methods
Diphenylmetha		Hydrolysis		half-life		
ne						
Diisocyanate						
(MDI)						
Polyurethane	Trade Secret	Data not			N/A	
Resin		availbl-				
		insufficient				

#### **12.3 : Bioaccumulative potential**

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
P,P'-	101-68-8	Experimental	28 days	Bioaccumulatio	200	OECD 305E -
Diphenylmetha		BCF-Carp		n factor		Bioaccumulation flow-
ne						through fish test
Diisocyanate						
(MDI)						
Polyurethane	Trade Secret	Data not	N/A	N/A	N/A	N/A
Resin		available or				
		insufficient for				
		classification				

#### 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.: Not applicable. Proper Shipping Name: Not applicable. Class/Division: Not applicable. Sub Risk: Not applicable. Packing Group: Not applicable.

#### 3M<sup>TM</sup> Scotch-Weld<sup>TM</sup> PUR Adhesive TS230

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	HSR002670
Group standard name	Surface Coatings and Colourants (Subsidiary Hazard) 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	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 a HSNO 6.6A, 6.8A, 6.9A, 8.3A, 9.1D substance)
Secondary containment	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 a HSNO 6.6A, 6.8A, 6.9A, 8.3A, 9.1D substance)
Tracking	Not required
Warning signage	Not required

## **SECTION 16: Other information**

#### **Revision information:**

Complete document review.

Document group:	11-3461-8	Version number:	3.00
Issue Date:	22/11/2020	Supersedes date:	30/11/2017

#### 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 The information in this Safety Data Sheet (SDS) is believed to be correct as of the date of issue. TO THE EXTENT PERMITTED BY LAW, 3M MAKES NO WARRANTY, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY, OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluates the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application. 3M provides information in electronic form as a service to customers. Due to the remote possibility of electronic transfer may have resulted in errors, omissions or alterations in this information; 3M makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the SDS available directly from 3M.

3M New Zealand SDS are available at 3M New Zealand Website: http://solutions.3mnz.co.nz