

## Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (Safe Work Australia, December 2011)

## **IDENTIFICATION:**

#### 1.1. Product identifier

3M<sup>™</sup> Scotchbond<sup>™</sup> Universal Plus L-Pop IntroKit (41297)

**Product Identification Numbers** UU-0109-0664-0

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

**Recommended use** Dental Product, Dental Adhesive

Restrictions on use

For use only by dental professionals in approved indications.

#### 1.3. Supplier's details

Address:	3M Australia - Building A, 1 Rivett Road, North Ryde NSW 2113
Telephone:	136 136
E Mail:	productinfo.au@mmm.com
Website:	www.3m.com.au

**1.4. Emergency telephone number Company Emergency Hotline:**EMERGENCY: 1800 097 146 (Australia only)

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:

29-8286-6, 41-6513-0

One or more components of this KIT is classified as a hazardous chemical according to the Model Work Health and Safety Regulations, 2011, in accordance with applicable State and Territory legislation.

## **TRANSPORT INFORMATION**

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

UN No.: UN2924; UN1805 Proper shipping name: FLAMMABLE LIQUID CORROSIVE, N.O.S., (Ethanol, 2-Propenoic Acid, 2-Methyl-, Reaction Products; Phosphoric Acid Solution) Class/Division: 3; 8 Packing Group: II; III Marine Pollutant: Not applicable.

Hazchem Code: 3WE; 2R IERG: 18; 37

Australian Dangerous Goods Code (ADG) - Road/Rail Transport Special Instructions: Dangerous Goods in Excepted Quantities, Class 3; 8

**International Air Transport Association (IATA)- Air Transport Special Instructions:** Dangerous Goods in Excepted Quantities, Class 3; 8

### **International Maritime Dangerous Goods Code (IMDG)- Marine Transport Special Instructions:** FORBIDDEN BY THIS MODE OF TRANSPORT, 3M DIVISION POLICY

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Safety Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

Greenguard ® is a United States based program. The 'Low VOC' reference related to United States Federal and State regulations exemptions for some solvents.

### 3M Australia SDSs are available at www.3m.com.au



## **Safety Data Sheet**

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This Safety Data Sheet has been prepared in accordance with the Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (Safe Work Australia, December 2011)

## **SECTION 1: Identification**

#### 1.1. Product identifier

3M<sup>™</sup> Scotchbond<sup>™</sup> Universal Plus L-Pop (41298, 41299, 41304, 41308)

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

#### Recommended use

Dental Product, For use only by dental professionals in approved indications

#### Restrictions on use

Dental Adhesive

#### 1.3. Supplier's details

Address:	3M Australia - Building A, 1 Rivett Road, North Ryde NSW 2113
Telephone:	136 136
E Mail:	productinfo.au@mmm.com
Website:	www.3m.com.au

1.4. Emergency telephone number

EMERGENCY: 1800 097 146 (Australia only)

## **SECTION 2: Hazard identification**

This product is classified as a hazardous chemical according to the Model Work Health and Safety Regulations, 2011, in accordance with applicable State and Territory legislation.

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

#### 2.1. Classification of the substance or mixture

Flammable Liquid: Category 2. Skin Corrosion/Irritation: Category 2. Serious Eye Damage/Irritation: Category 1. Skin Sensitizer: Category 1. Reproductive Toxicity: Category 1.

#### 2.2. Label elements

The label elements below were prepared in accordance with the Code of Practice on Preparation of Safety Data Sheets for

Hazardous Chemicals (Safe Work Australia, December 2011). This information may be different from the actual product label.

### Signal word

Danger

#### Symbols

Flame |Corrosion |Exclamation mark |Health Hazard |

Pictograms



#### Hazard statements

H225

Highly flammable liquid and vapour.

H315	Causes skin irritation.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.
H360	May damage fertility or the unborn child.

### **Precautionary statements**

Prevention:	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
	No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating and lighting equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280B	Wear protective gloves and eye/face protection.
Response:	
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin
	with water or shower.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTRE 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.
P370 + P378	In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry
	chemical or carbon dioxide to extinguish.
Storage:	
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

#### **Disposal:**

P501

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

#### 2.3. Other assigned/identified product hazards

- May cause chemical gastrointestinal burns. This material has been tested for skin corrosion/irritation and the test results are reflected in the assigned classification.

### 2.4. Other hazards which do not result in classification

Toxic to aquatic life.

Harmful to aquatic life with long lasting effects.

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

This material is a mixture.

Ingredient	CAS Nbr	% by Weight
2-Propenoic acid, 2-methyl-, diesters with	2305048-54-6	25 - 35
4,6-dibromo-1,3-benzenediol 2-(2-		
hydroxyethoxy)ethyl 3-hydroxypropyl		
diethers		
2-Hydroxyethyl methacrylate	868-77-9	15 - 25
2-Propenoic acid, 2-methyl-, reaction	1207736-18-2	< 20
products with 1,10-decanediol and		
phosphorus oxide (P2O5)		
Ethanol	64-17-5	5 - 15
Water	7732-18-5	5 - 15
Camphorquinone	10373-78-1	< 2
Copolymer of acrylic and itaconic acid	25948-33-8	<2
Ethyl 4-dimethylaminobenzoate	10287-53-3	<2
3-Aminopropyltriethoxysilane	919-30-2	< 0.5
Acetic acid, copper(2+) salt, monohydrate	6046-93-1	< 0.1

## **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 for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

#### If swallowed

Rinse mouth. Do not induce vomiting. Get immediate medical attention.

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

Allergic skin reaction (redness, swelling, blistering, and itching). Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision).

**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 flammable liquids such as dry chemical or carbon dioxide to extinguish.

#### 5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

#### Hazardous Decomposition or By-Products

Substance	<u>Condition</u>
Formaldehyde	During combustion.
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.
Irritant vapours or gases.	During combustion.
Oxides of nitrogen.	During combustion.

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

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. 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.

Hazchem Code: •3WE

## **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. 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. WARNING ! A motor could be an ignition source and could cause flammable gases or vapours in the spill area to burn or explode. 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

Contain spill. Cover spill area with a fire extinguishing foam that is resistant to polar solvents. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with detergent and water. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

A no-touch technique is recommended. If skin contact occurs, wash skin with soap and water. Acrylates may penetrate commonly-used gloves. If product contacts glove, remove and discard glove, wash hands immediately with soap and water and then re-glove. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapours/spray. 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.) Do not get in

eyes. Use personal protective equipment (eg. gloves, respirators...) as required.

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

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store away from heat. Store away from acids. Store away from oxidising agents.

## **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### **Occupational exposure limits**

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

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
COPPER COMPOUNDS	6046-93-1	ACGIH	TWA(as Cu, fume):0.2	
			mg/m3;TWA(as Cu dust or	
			mist):1 mg/m3	
Ethanol	64-17-5	ACGIH	STEL:1000 ppm	A3: Confirmed animal
				carcinogen.
Ethanol	64-17-5	Australia OELs	TWA(8 hours):1880	
			mg/m3(1000 ppm)	

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

Australia OELs : Australia. Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment

CMRG : Chemical Manufacturer's Recommended Guidelines

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

Sen: Sensitiser

Sk: Absorption through the skin may be a significant source of exposure.

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

Use in a well-ventilated area.

### 8.2.2. Personal protective equipment (PPE)

### Eye/face protection

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

Select and use eye protection in accordance with AS/NZS 1336. Eye protection should comply with the performance

specifications of AS/NZS 1337.

## Skin/hand protection

See Section 7.1 for additional information on skin protection.

## **Respiratory protection**

None required.

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

## 9.1. Information on basic physical and chemical properties

Physical state	Liquid.	
Specific Physical Form:	Viscous Liquid	
Colour	Yellow	
Odour		
04041	Alcohol	
Odour threshold	No data available.	
рН	Not applicable.	
Melting point/Freezing point	No data available.	
Boiling point/Initial boiling point/Boiling range	> 78 °C	
Flash point	Approximately 21 °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	No data available.	
Vapor Density and/or Relative Vapor DensityNo data available.		
Approximately 1.1 g/cm3		
Relative density	Approximately 1.1	
Water solubility Appreciable		
Solubility- non-water	No data available.	
Partition coefficient: n-octanol/water No data available.		
Autoignition temperatureNo data available.		
Decomposition temperature	No data available.	
Viscosity/Kinematic Viscosity	Not applicable.	
Volatile organic compounds (VOC)	No data available.	
Percent volatile No data available.		
VOC less H2O & exempt solvents	No data available.	

## **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. Conditions to avoid** Heat.

**10.4. Possibility of hazardous reactions** Hazardous polymerisation will not occur.

**10.5 Incompatible materials** None known.

### 10.6 Hazardous decomposition products

<u>Substance</u>

None known.

**Condition** 

## **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

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

#### Eye 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

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:**

### **Reproductive/Developmental Toxicity:**

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

#### Additional information:

This product contains ethanol. Alcoholic beverages and ethanol in alcoholic beverages have been classified by the International Agency for Research on Cancer as carcinogenic to humans. There are also data associating human consumption of alcoholic beverages with developmental toxicity and liver toxicity. Exposure to ethanol during the foreseeable use of this product is not expected to cause cancer, developmental toxicity, or liver toxicity.

#### **Toxicological Data**

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

#### Acute Toxicity

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE >5,000
			mg/kg
Overall product	Ingestion		No data available; calculated ATE >5,000
			mg/kg
2-Propenoic acid, 2-methyl-, diesters	Dermal	Professional	LD50 estimated to be $> 5,000 \text{ mg/kg}$
with 4,6-dibromo-1,3-benzenediol 2-		judgement	
(2-hydroxyethoxy)ethyl 3-			
hydroxypropyl diethers			
2-Propenoic acid, 2-methyl-, diesters	Ingestion	Rat	LD50 > 2,000 mg/kg
with 4,6-dibromo-1,3-benzenediol 2-			
(2-hydroxyethoxy)ethyl 3-			
hydroxypropyl diethers			
2-Hydroxyethyl methacrylate	Dermal	Rabbit	LD50 > 5,000 mg/kg
2-Hydroxyethyl methacrylate	Ingestion	Rat	LD50 5,564 mg/kg

Ethanol	Dermal	Rabbit	LD50 > 15,800 mg/kg
Ethanol	Inhalation-Vapour (4	Rat	LC50 124.7 mg/l
	hours)		
Ethanol	Ingestion	Rat	LD50 17,800 mg/kg
2-Propenoic acid, 2-methyl-, reaction products with 1,10-decanediol and phosphorus oxide (P2O5)	Dermal	Professional judgement	LD50 estimated to be > 5,000 mg/kg
2-Propenoic acid, 2-methyl-, reaction products with 1,10-decanediol and phosphorus oxide (P2O5)	Ingestion	Rat	LD50 > 2,000 mg/kg
Camphorquinone	Dermal	Professional judgement	LD50 estimated to be 2,000 - 5,000 mg/kg
Camphorquinone	Ingestion	Rat	LD50 > 2,000 mg/kg
Copolymer of acrylic and itaconic acid	Ingestion	Rat	LD50 > 5,000 mg/kg
Copolymer of acrylic and itaconic acid	Dermal	similar health hazards	LD50 estimated to be > 5,000 mg/kg
Ethyl 4-dimethylaminobenzoate	Dermal	Rat	LD50 > 2,000 mg/kg
Ethyl 4-dimethylaminobenzoate	Ingestion	Rat	LD50 > 2,000 mg/kg
3-Aminopropyltriethoxysilane	Dermal	Rabbit	LD50 4,290 mg/kg
3-Aminopropyltriethoxysilane	Ingestion	Rat	LD50 1,570 mg/kg

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

Name	Species	Value
Overall product	In vitro data	Irritant
2-Propenoic acid, 2-methyl-, diesters with 4,6-	In vitro data	Irritant
dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl		
3-hydroxypropyl diethers		
2-Hydroxyethyl methacrylate	Rabbit	Minimal irritation
Ethanol	Rabbit	No significant irritation
2-Propenoic acid, 2-methyl-, reaction products with	In vitro data	Corrosive
1,10-decanediol and phosphorus oxide (P2O5)		
Ethyl 4-dimethylaminobenzoate	Rabbit	No significant irritation
3-Aminopropyltriethoxysilane	Rabbit	Corrosive

## Serious Eye Damage/Irritation

Name	Species	Value
2-Propenoic acid, 2-methyl-, diesters with 4,6-	In vitro data	No significant irritation
dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl		
3-hydroxypropyl diethers		
2-Hydroxyethyl methacrylate	Rabbit	Moderate irritant
Ethanol	Rabbit	Severe irritant
2-Propenoic acid, 2-methyl-, reaction products with	In vitro data	Corrosive
1,10-decanediol and phosphorus oxide (P2O5)		
Ethyl 4-dimethylaminobenzoate	Rabbit	No significant irritation
3-Aminopropyltriethoxysilane	Rabbit	Corrosive

### **Skin Sensitisation**

Name	Species	Value
2-Propenoic acid, 2-methyl-, diesters with 4,6- dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers	Professional judgement	Sensitising
2-Hydroxyethyl methacrylate	Human and animal	Sensitising
Ethanol	Human	Not classified

2-Propenoic acid, 2-methyl-, reaction products with 1,10-decanediol and phosphorus oxide (P2O5)	Mouse	Sensitising
Ethyl 4-dimethylaminobenzoate		Not classified
3-Aminopropyltriethoxysilane	Guinea pig	Sensitising

### **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
2-Propenoic acid, 2-methyl-, diesters with 4,6- dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers	In vivo	Not mutagenic
2-Propenoic acid, 2-methyl-, diesters with 4,6- dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers	In Vitro	Some positive data exist, but the data are not sufficient for classification
2-Hydroxyethyl methacrylate	In vivo	Not mutagenic
2-Hydroxyethyl methacrylate	In Vitro	Some positive data exist, but the data are not sufficient for classification
Ethanol	In Vitro	Some positive data exist, but the data are not sufficient for classification
Ethanol	In vivo	Some positive data exist, but the data are not sufficient for classification
2-Propenoic acid, 2-methyl-, reaction products with 1,10-decanediol and phosphorus oxide (P2O5)	In Vitro	Not mutagenic
Ethyl 4-dimethylaminobenzoate	In vivo	Not mutagenic
Ethyl 4-dimethylaminobenzoate	In Vitro	Some positive data exist, but the data are not sufficient for classification

## Carcinogenicity

Name	Route	Species	Value
Ethanol	Ingestion	Multiple animal	Some positive data exist, but the data
		species	are not sufficient for classification

## **Reproductive Toxicity**

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

Name	Route	Value	Species	Test result	<b>Exposure Duration</b>
2-Propenoic acid, 2- methyl-, diesters with 4,6-dibromo-1,3- benzenediol 2-(2- hydroxyethoxy)ethyl 3-hydroxypropyl diethers	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
2-Propenoic acid, 2- methyl-, diesters with 4,6-dibromo-1,3- benzenediol 2-(2- hydroxyethoxy)ethyl 3-hydroxypropyl diethers	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	29 days
2-Propenoic acid, 2- methyl-, diesters with 4,6-dibromo-1,3- benzenediol 2-(2- hydroxyethoxy)ethyl 3-hydroxypropyl	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	premating into lactation

diethers					
2-Hydroxyethyl methacrylate	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
2-Hydroxyethyl methacrylate	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	49 days
2-Hydroxyethyl methacrylate	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
Ethanol	Inhalation	Not classified for development	Rat	NOAEL 38 mg/l	during gestation
Ethanol	Ingestion	Not classified for development	Rat	NOAEL 5,200 mg/kg/day	premating & during gestation
Ethyl 4- dimethylaminobenzo ate	Ingestion	Not classified for female reproduction	Rat	NOAEL 600 mg/kg/day	premating into lactation
Ethyl 4- dimethylaminobenzo ate	Ingestion	Not classified for development	Rat	NOAEL 50 mg/kg/day	premating into lactation
Ethyl 4- dimethylaminobenzo ate	Ingestion	Toxic to male reproduction	Rat	NOAEL 50 mg/kg/day	53 days

## Target Organ(s)

## Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
2-Propenoic acid, 2- methyl-, diesters with 4,6-dibromo- 1,3- benzenediol 2-(2- hydroxyethox y)ethyl 3- hydroxypropy l diethers	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Ethanol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	LOAEL 9.4 mg/l	not available
Ethanol	Inhalation	central nervous system depression	Not classified	Human and animal	NOAEL not available	
Ethanol	Ingestion	central nervous system depression	Not classified	Multiple animal species	NOAEL not available	
Ethanol	Ingestion	kidney and/or bladder	Not classified	Dog	NOAEL 3,000 mg/kg	
2-Propenoic acid, 2- methyl-, reaction products with	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	

1,10- decanediol and phosphorus oxide (P2O5)						
Copolymer of acrylic and itaconic acid	Ingestion	nervous system	Not classified	Rat	NOAEL 5,000 mg/kg	

### Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
2-Propenoic acid, 2- methyl-, diesters with 4,6-dibromo- 1,3- benzenediol 2-(2- hydroxyethox y)ethyl 3- hydroxypropy l diethers	Ingestion	heart   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   hematopoietic system   liver   immune system   muscles   nervous system   eyes   kidney and/or bladder   respiratory system	Not classified	Rat	NOAEL 1,000 mg/kg/day	29 days
Ethanol	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Rabbit	LOAEL 124 mg/l	365 days
Ethanol	Inhalation	hematopoietic system   immune system	Not classified	Rat	NOAEL 25 mg/l	14 days
Ethanol	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 8,000 mg/kg/day	4 months
Ethanol	Ingestion	kidney and/or bladder	Not classified	Dog	NOAEL 3,000 mg/kg/day	7 days
Copolymer of acrylic and itaconic acid	Ingestion	endocrine system   hematopoietic system   liver	Not classified	Rat	NOAEL 200 mg/kg/day	28 days
Copolymer of acrylic and itaconic acid	Ingestion	heart   bone, teeth, nails, and/or hair   immune system   muscles   nervous system   eyes   kidney and/or bladder   respiratory system   vascular system	Not classified	Rat	NOAEL 2,000 mg/kg/day	28 days
Ethyl 4- dimethylamin obenzoate	Ingestion	hematopoietic system	Some positive data exist, but the data are not sufficient for	Rat	NOAEL 74 mg/kg/day	28 days

			classification			
Ethyl 4- dimethylamin obenzoate	Ingestion	liver   heart   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   immune system   muscles   nervous system   eyes   kidney and/or bladder   respiratory system   vascular system	Not classified	Rat	NOAEL 900 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.

#### Exposure Levels

Refer Section 8.1 Control Parameters of this Safety Data Sheet.

### Interactive Effects

Not determined.

## **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

#### Acute aquatic hazard:

GHS Acute 2: Toxic to aquatic life.

#### Chronic aquatic hazard:

GHS Chronic 3: Harmful to aquatic life with long lasting effects.

No product test data available.

Material	CAS Number	Organism	Туре	Exposure	Test endpoint	Test result
2-Propenoic	2305048-54-6	Green algae	Experimental	72 hours	EC50	>100 mg/l
acid, 2-methyl-,						
diesters with						
4,6-dibromo-						
1,3-						
benzenediol 2-						
(2-						
hydroxyethoxy						
)ethyl 3-						
hydroxypropyl						
diethers						
2-Propenoic	2305048-54-6	Water flea	Experimental	48 hours	EC50	>100 mg/l

	1	1			Τ	ر
acid, 2-methyl-,						
diesters with						
4,6-dibromo-						
1,3-						
benzenediol 2-						
(2-						
hydroxyethoxy						
)ethyl 3-						
hydroxypropyl						
diethers						
2-Propenoic	2305048-54-6	Green algae	Experimental	72 hours	EC10	>100 mg/l
acid, 2-methyl-,						
diesters with						
4,6-dibromo-						
1,3-						
benzenediol 2-						
(2-						
hydroxyethoxy						
)ethyl 3-						
hydroxypropyl						
diethers						
2-	868-77-9	Turbot	Analogous	96 hours	LC50	833 mg/l
Hydroxyethyl			Compound			-
methacrylate			-			
2-	868-77-9	Fathead	Experimental	96 hours	LC50	227 mg/l
Hydroxyethyl		minnow				
methacrylate						
2-	868-77-9	Green algae	Experimental	72 hours	EC50	710 mg/l
Hydroxyethyl						
methacrylate						
2-	868-77-9	Water flea	Experimental	48 hours	EC50	380 mg/l
Hydroxyethyl						
methacrylate						
2-	868-77-9	Green algae	Experimental	72 hours	NOEC	160 mg/l
Hydroxyethyl			r			
methacrylate						
2-	868-77-9	Water flea	Experimental	21 days	NOEC	24.1 mg/l
Hydroxyethyl						
methacrylate						
2-	868-77-9		Experimental	16 hours	EC0	>3,000 mg/l
Hydroxyethyl				10 110015		3,000 1116/1
methacrylate						
2-	868-77-9		Experimental	18 hours	LD50	<98 mg per kg of
Hydroxyethyl				10 110415		bodyweight
methacrylate						oouy worgin
2-Propenoic	1207736-18-2	Green algae	Experimental	72 hours	EC50	0.718 mg/l
acid, 2-methyl-,	1207730-10-2	Given algae		12 110015		0.710 1119/1
reaction						
products with						
1,10-						
decanediol and						
phosphorus						
oxide (P2O5)	1207726 19 2	Watan flaa	E	40 h anns	EL 50	$> 104 m c^{/1}$
2-Propenoic	1207736-18-2	Water flea	Experimental	48 hours	EL50	>104 mg/l
acid, 2-methyl-,						

	r	1	T	1	1	1
reaction						
products with						
1,10-						
decanediol and						
phosphorus						
oxide (P2O5)						
2-Propenoic	1207736-18-2	Green algae	Experimental	72 hours	NOEC	0.1 mg/l
acid, 2-methyl-,						
reaction						
products with						
1,10-						
decanediol and						
phosphorus						
oxide (P2O5)						
Ethanol	64-17-5	Fathead	Experimental	96 hours	LC50	14,200 mg/l
		minnow	<b>I I I I I I I I I I</b>			,
Ethanol	64-17-5	Fish	Experimental	96 hours	LC50	11,000 mg/l
Ethanol	64-17-5	Green algae	Experimental	72 hours	EC50	275 mg/l
Ethanol	64-17-5	l v		48 hours	LC50	
		Water flea	Experimental			5,012 mg/l
Ethanol	64-17-5	Green algae	Experimental	72 hours	ErC10	11.5 mg/l
Ethanol	64-17-5	Water flea	Experimental	10 days	NOEC	9.6 mg/l
Camphorquino	10373-78-1		Data not			N/A
ne			available or			
			insufficient for			
			classification			
Copolymer of	25948-33-8		Data not			N/A
acrylic and			available or			
itaconic acid			insufficient for			
			classification			
Ethyl 4-	10287-53-3	Activated	Experimental	3 hours	EC50	>1,000 mg/l
dimethylamino	10207 55 5	sludge	Experimental	5 nouis	Less	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
benzoate		siuuge				
Ethyl 4-	10287-53-3	Green algae	Experimental	72 hours	EC50	2.8 mg/l
5	10287-33-3	Green algae	Experimental	72 nours	EC30	2.8 mg/1
dimethylamino						
benzoate		<b>D</b> 1 1		0.6.1		
Ethyl 4-	10287-53-3	Rainbow trout	Experimental	96 hours	LC50	1.9 mg/l
dimethylamino						
benzoate						
Ethyl 4-	10287-53-3	Water flea	Experimental	48 hours	EC50	4.5 mg/l
dimethylamino						
benzoate						
Ethyl 4-	10287-53-3	Green algae	Experimental	72 hours	ErC10	0.71 mg/l
dimethylamino			1			5
benzoate						
3-	919-30-2	Bacteria	Experimental	5.75 hours	EC50	43 mg/l
Aminopropyltri		Buctoriu		0.70 110015		1.5 1116/1
ethoxysilane						
3-	919-30-2	Groop alago	Experimental	72 hours	EC50	603 mg/l
-		Green algae		12 Hours	ECSU	
Aminopropyltri						
ethoxysilane		T T		40.1		500 //
3-	919-30-2	Invertebrate	Experimental	48 hours	LC50	580 mg/l
Aminopropyltri						
ethoxysilane						
3-	919-30-2	Water flea	Experimental	48 hours	EC50	331 mg/l
Aminopropyltri						

ethoxysilane						
~ ~	919-30-2	Zebra Fish	Experimental	96 hours	LC50	>934 mg/l
Aminopropyltri	JIJ 50 2		Experimental	50 110015		> 954 mg/1
ethoxysilane						
	919-30-2	Green algae	Experimental	72 hours	NOEC	1.3 mg/l
Aminopropyltri	919-30-2	Green argae	Experimental	72 110015	NOLC	1.5 mg/1
ethoxysilane						
	6046-93-1	Green algae	Estimated	72 hours	EC50	0.33 mg/l
copper(2+) salt,	0040-93-1	Green algae	Estimated	72 nours	EC30	0.33 mg/1
11 \ / /						
monohydrate	(0.4.6, 0.2, 1	111 / Cl		40.1	DO50	
, ,	6046-93-1	Water flea	Estimated	48 hours	EC50	0.04 mg/l
copper(2+) salt,						
monohydrate		1				
,	6046-93-1	Zebra Fish	Estimated	96 hours	LC50	0.037 mg/l
copper(2+) salt,						
monohydrate						
, ,	6046-93-1	Fathead	Estimated	32 days	EC10	0.019 mg/l
copper(2+) salt,		minnow				
monohydrate						
Acetic acid,	6046-93-1	Green algae	Estimated		NOEC	0.069 mg/l
copper(2+) salt,						C
monohydrate						
	6046-93-1	Water flea	Estimated	7 days	NOEC	0.01 mg/l
copper(2+) salt,				· · · · · · · · · · · · · · · · · · ·		6
monohydrate						
	6046-93-1	Activated	Estimated		EC50	22 mg/l
copper(2+) salt,		sludge				5
monohydrate						
	6046-93-1	Barley	Estimated	4 days	NOEC	50 mg/kg (Dry Weight)
copper(2+) salt,	00.0901	Surrey	2500000	· uuj o	11020	
monohydrate						
	6046-93-1	Bobwhite quail	Estimated	14 days	LD50	4,402 mg per kg of
copper(2+) salt,	0040 75 1	Doownite quan	Estimated	14 duys		bodyweight
monohydrate						body weight
	6046-93-1	Redworm	Estimated	56 days	NOEC	31 mg/kg (Dry Weight)
	0040-93-1	Keuwonn	Estimated	50 days	NOLC	51 mg/kg (Dry weight)
copper(2+) salt,						
monohydrate	(04( 02 1	C - 1ins - n t	Fatimenta 1	29.1	NOEG	57.5 m = /l== (D==
	6046-93-1	Sediment	Estimated	28 days	NOEC	57.5 mg/kg (Dry
copper(2+) salt,		Worm				Weight)
monohydrate	(04( 02 1	0.1.1		4 1	NOLO	20 /1 /15 11
	6046-93-1	Soil microbes	Estimated	4 days	NOEC	38 mg/kg (Dry Weight)
copper(2+) salt,						
monohydrate						
	6046-93-1	Springtail	Estimated	28 days	NOEC	87.7 mg/kg (Dry
copper(2+) salt,						Weight)
monohydrate						

## 12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
2-Propenoic	2305048-54-6	Experimental	28 days	CO2 evolution	3.69 %CO2	OECD 301B - Modified
acid, 2-methyl-,		Biodegradation			evolution/THC	sturm or CO2
diesters with		-			O2 evolution	
4,6-dibromo-						
1,3-						

benzenediol 2-						
(2-						
hydroxyethoxy						
)ethyl 3-						
hydroxypropyl						
diethers						
2-	868-77-9	Experimental		Hydrolytic	10.9 days (t	OECD 111 Hydrolysis
Hydroxyethyl		Hydrolysis		half-life basic	1/2)	func of pH
methacrylate				pН		
2-	868-77-9	Experimental	28 days	BOD	84 %BOD/CO	OECD 301D - Closed
Hydroxyethyl		Biodegradation			D	bottle test
methacrylate						
2-Propenoic	1207736-18-2	Experimental	28 days	BOD	77-	OECD 301F -
acid, 2-methyl-,		Biodegradation			80 %BOD/ThB	
reaction					OD	respirometry
products with						
1,10-						
decanediol and						
phosphorus						
oxide (P2O5)						
Ethanol	64-17-5	Experimental	14 days	BOD	89 %BOD/ThB	OECD 301C - MITI
		Biodegradation			OD	test (I)
Camphorquino	10373-78-1	Estimated	28 days	BOD		OECD 301C - MITI
ne		Biodegradation			BOD	test (I)
Copolymer of	25948-33-8	Data not	N/A	N/A	N/A	N/A
acrylic and		available-				
itaconic acid		insufficient				
Ethyl 4-	10287-53-3	Experimental	28 days	CO2 evolution	40 %CO2	OECD 301B - Modified
dimethylamino		Biodegradation			evolution/THC	sturm or CO2
benzoate					O2 evolution	
3-	919-30-2	Estimated		Photolytic half-		Non-standard method
Aminopropyltri		Photolysis		life (in air)	1/2)	
ethoxysilane						
3-	919-30-2	Experimental		Hydrolytic	8.5 hours (t	Non-standard method
Aminopropyltri		Hydrolysis		half-life	1/2)	
ethoxysilane						
3-	919-30-2	Experimental	28 days	BOD		OECD 301C - MITI
Aminopropyltri		Biodegradation			OD	test (I)
ethoxysilane						
Acetic acid,	6046-93-1	Analogous	14 days	BOD		OECD 301C - MITI
copper(2+) salt,		Compound			OD	test (I)
monohydrate		Biodegradation				

## 12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
2-Propenoic	2305048-54-6	Modeled		Bioaccumulatio	5.5-6.0	Catalogic™
acid, 2-methyl-,		Bioconcentrati		n factor		
diesters with		on				
4,6-dibromo-						
1,3-						
benzenediol 2-						
(2-						
hydroxyethoxy						
)ethyl 3-						

hydroxypropyl						
diethers 2-Propenoic	2305048-54-6	Experimental		Log Kow	4.77	OECD 107 log Kow
acid, 2-methyl-,		Bioconcentrati		_		shke flsk mtd
diesters with		on				
4,6-dibromo-						
1,3-						
benzenediol 2-						
(2-						
hydroxyethoxy						
)ethyl 3-						
hydroxypropyl						
diethers						
2-Propenoic	2305048-54-6	Experimental		Log Kow	5.22	OECD 107 log Kow
acid, 2-methyl-,		Bioconcentrati				shke flsk mtd
diesters with		on				
4,6-dibromo-						
1,3-						
benzenediol 2-						
(2-						
hydroxyethoxy						
)ethyl 3-						
hydroxypropyl						
diethers						
2-Propenoic	2305048-54-6	Experimental		Log Kow	5.36	OECD 107 log Kow
acid, 2-methyl-,		Bioconcentrati				shke flsk mtd
diesters with		on				
4,6-dibromo-						
1,3-						
benzenediol 2-						
(2-						
hydroxyethoxy						
)ethyl 3-						
hydroxypropyl						
diethers	0(0.77.0			T TZ	0.42	
2-	868-77-9	Experimental		Log Kow	0.42	OECD 107 log Kow shke flsk mtd
Hydroxyethyl		Bioconcentrati				shke fisk mtd
methacrylate	120772( 19.2	on Madalad		I	2.02	A CD/L alta
2-Propenoic	1207736-18-2	Modeled		Log Kow	-2.02	ACD/Labs
acid, 2-methyl-, reaction		Bioconcentrati				ChemSketch™
		on				
products with 1,10-						
decanediol and						
phosphorus						
oxide (P2O5)						
Ethanol	64-17-5	Experimental		Log Kow	-0.35	Non-standard method
Linanoi	01/-5	Bioconcentrati		LUS KUW	0.55	
		on				
Camphorquino	10373-78-1	Estimated		Bioaccumulatio	7 1	Estimated:
ne	105,5-70-1	Bioconcentrati		n factor	/.1	Bioconcentration factor
		on		11 100101		
Copolymer of	25948-33-8	Data not	N/A	N/A	N/A	N/A
acrylic and	23740-33-0	available or				
itaconic acid		insufficient for				
nucome aciu			1		I	1

		classification				
Ethyl 4-	10287-53-3	Experimental		Log Kow	3.2	Non-standard method
dimethylamino		Bioconcentrati				
benzoate		on				
3-	919-30-2	Experimental	56 days	Bioaccumulatio	<3.4	OECD 305E -
Aminopropyltri		BCF - Carp		n factor		Bioaccumulation flow-
ethoxysilane						through fish test
Acetic acid,	6046-93-1	Analogous		Log Kow	-0.17	
copper(2+) salt,		Compound				
monohydrate		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

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

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. If no other disposal options are available, waste product that has been completely cured or polymerized may be placed in a landfill properly designed for industrial waste.

## **SECTION 14: Transport Information**

Australian Dangerous Goods Code (ADG) - Road/Rail Transport UN No.: UN2924 Proper shipping name: FLAMMABLE LIQUID, CORROSIVE, N.O.S. , (ETHANOL, 2-PROPENOIC ACID, 2-METHYL-,REACTION PRODUCTS) Class/Division: 3 Sub Risk: 8 Packing Group: II Special Instructions: Dangerous Goods in Excepted Quantities, Class 3, 8 Hazchem Code: •3WE IERG: 18

International Air Transport Association (IATA) - Air Transport UN No.: UN2924 Proper shipping name: FLAMMABLE LIQUID, CORROSIVE, N.O.S. , (ETHANOL, 2-PROPENOIC ACID, 2-METHYL-,REACTION PRODUCTS) Class/Division: 3 Sub Risk: 8 Packing Group: II Special Instructions: Dangerous goods in Excepted Quantities, Class 3, 8

International Maritime Dangerous Goods Code (IMDG)- Marine Transport UN No.: UN2924 Proper shipping name: FLAMMABLE LIQUID, CORROSIVE, N.O.S., (ETHANOL, 2-PROPENOIC ACID, 2-METHYL-,REACTION PRODUCTS) Class/Division: 3 Sub Risk: 8 Packing Group: II Marine Pollutant: Not applicable. Special Instructions: Forbidden due to internal policy

## **SECTION 15: Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Australian Inventory Status:

This product is regulated by the Therapeutics Goods Administration and is exempt from compliance with the Industrial Chemicals (Notification and Assessment) Act 1989 as amended.

## **SECTION 16: Other information**

### **Revision information:**

Complete document review.

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Safety Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

Greenguard ® is a United States based program. The 'Low VOC' reference related to United States Federal and State regulations exemptions for some solvents.

#### 3M Australia SDSs are available at www.3m.com.au



## Safety Data Sheet

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Issue Date:	22/03/2022	Supersedes date:	03/03/2021

This Safety Data Sheet has been prepared in accordance with the Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (Safe Work Australia, December 2011)

## **SECTION 1: Identification**

#### 1.1. Product identifier

3M<sup>™</sup> Scotchbond<sup>™</sup> Universal Etchant (41263)

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

#### Recommended use

Dental Product, Etching gel

#### **Restrictions on use**

For use by dental professionals only.

#### 1.3. Supplier's details

Address:3M Australia - Building A, 1 Rivett Road, North Ryde NSW 2113Telephone:136 136E Mail:productinfo.au@mmm.comWebsite:www.3m.com.au

1.4. Emergency telephone number

EMERGENCY: 1800 097 146 (Australia only)

## **SECTION 2: Hazard identification**

This product is classified as a hazardous chemical according to the Model Work Health and Safety Regulations, 2011, in accordance with applicable State and Territory legislation.

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

### 2.1. Classification of the substance or mixture

Corrosive to metal: Category 1. Skin Corrosion/Irritation: Category 1. Serious Eye Damage/Irritation: Category 1.

#### 2.2. Label elements

The label elements below were prepared in accordance with the Code of Practice on Preparation of Safety Data Sheets for Hazardous Chemicals (Safe Work Australia, December 2011). This information may be different from the actual product label.

# Signal word

Danger

## Symbols

Corrosion |

### Pictograms



Hazard statements H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
Precautionary statements	
Prevention:	
P234	Keep only in original packaging.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P280D	Wear protective gloves, protective clothing, and eye/face protection.
Response:	
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
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.
P310	Immediately call a POISON CENTRE or doctor/physician.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
Storage:	
P405	Store locked up.
P406	Store in a corrosion-resistant container with a resistant inner liner.
Disposal:	
P501	Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

## 2.3. Other assigned/identified product hazards

- May cause chemical gastrointestinal burns.

### 2.4. Other hazards which do not result in classification

May be harmful if swallowed.

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

This material is a mixture.

Ingredient	CAS Nbr	% by Weight	
Water	7732-18-5	50 - 65	
Phosphoric Acid	7664-38-2	30 - 40	
Synthetic amorphous silica, fumed, crystalline-free	112945-52-5	5 - 10	
Polyethylene Glycol	25322-68-3	1 - 5	
Aluminium oxide	1344-28-1	< 2	

## **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.

#### If swallowed

Rinse mouth. Do not induce vomiting. Get immediate medical attention.

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

Skin burns (localized redness, swelling, itching, intense pain, blistering, and tissue destruction). Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision).

#### 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**

Substance Carbon monoxide. Carbon dioxide.

Condition

During combustion. 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.

### Hazchem Code: 2R

## **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

Contain spill. Collect as much of the spilled material as possible. Place in a metal container approved for use in transportation by appropriate authorities. The container must be lined with polyethylene plastic or contain a plastic drum liner made of polyethylene. Clean up residue with water. Cover, but do not seal for 48 hours. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Avoid prolonged or repeated skin contact. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Do not get in eyes.

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

Store away from heat. Keep only in original container. Store in a corrosive resistant container with a resistant inner liner. Store away from strong bases.

## **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
Silicon dioxide	112945-52-	Australia OELs	s TWA(respirable fraction)(8	
	5		hours):2 mg/m3	
Aluminium oxide	1344-28-1	Australia OELs	TWA(Inspirable dust)(8	
			hours):10 mg/m3	
Aluminum, insoluble compounds	1344-28-1	ACGIH	TWA(respirable fraction):1	A4: Not class. as human
			mg/m3	carcin
Polyethylene Glycol	25322-68-3	AIHA	TWA:10 mg/m <sup>3</sup>	
Phosphoric Acid	7664-38-2	ACGIH	TWA: 1 mg/m <sup>3</sup> ; STEL: 3	
			mg/m <sup>3</sup>	
Phosphoric Acid	7664-38-2	Australia OELs	TWA(8 hours):1	
			mg/m3;STEL(15 minutes):3	
			mg/m3	

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

Australia OELs : Australia. Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment

CMRG : Chemical Manufacturer's Recommended Guidelines

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit CEIL: Ceiling

Sen: Sensitiser

Sk: Absorption through the skin may be a significant source of exposure.

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

Use in a well-ventilated area.

### 8.2.2. Personal protective equipment (PPE)

### **Eye/face protection**

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

Select and use eye protection in accordance with AS/NZS 1336. Eye protection should comply with the performance specifications of AS/NZS 1337.

#### Skin/hand protection

See Section 7.1 for additional information on skin protection.

#### **Respiratory protection**

None required.

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

### 9.1. Information on basic physical and chemical properties

mormation on basic physical and chemical properti	
Physical state	Liquid.
Specific Physical Form:	Gel
Colour	Blue
Odour	Slight Odour, Characteristic Odour
Odour threshold	No data available.
рН	< 1
Melting point/Freezing point	Not applicable.
Boiling point/Initial boiling point/Boiling range	No data available.
Flash point	> 100 °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	No data available.
Vapor Density and/or Relative Vapor Density	No data available.
Density	1.1 g/ml - 1.2 g/ml
Relative density	1.1 - 1.2 [ <i>Ref Std</i> :WATER=1]
Water solubility	Complete
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	No data available.
Volatile organic compounds (VOC)	No data available.
Percent volatile	No data available.
VOC less H2O & exempt solvents	No data available.
Molecular weight	No data available.

#### 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. Conditions to avoid** Heat.

**10.4. Possibility of hazardous reactions** Hazardous polymerisation will not occur.

**10.5 Incompatible materials** Strong bases.

**10.6 Hazardous decomposition products** <u>Substance</u> None known.

**Condition** 

## **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

This product may have a characteristic odour; however, no adverse health effects are anticipated.

#### Skin contact

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

#### Eye 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

May be 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.

## **Toxicological Data**

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

### **Acute Toxicity**

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE >2,000 - ≤5,000 mg/kg
Phosphoric Acid	Dermal	Rabbit	LD50 2,740 mg/kg
Phosphoric Acid	Ingestion	Rat	LD50 1,530 mg/kg
Synthetic amorphous silica, fumed, crystalline-free	Dermal	Rabbit	LD50 > 5,000 mg/kg
Synthetic amorphous silica, fumed, crystalline-free	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
Synthetic amorphous silica, fumed, crystalline-free	Ingestion	Rat	LD50 > 5,110 mg/kg
Polyethylene Glycol	Dermal	Rabbit	LD50 > 20,000 mg/kg
Polyethylene Glycol	Ingestion	Rat	LD50 32,770 mg/kg
Aluminium oxide	Dermal		LD50 estimated to be $>$ 5,000 mg/kg
Aluminium oxide	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 2.3 mg/l
Aluminium oxide	Ingestion	Rat	LD50 > 5,000 mg/kg

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

Name	Species	Value
Phosphoric Acid	Rabbit	Corrosive
Synthetic amorphous silica, fumed, crystalline-free	Rabbit	No significant irritation
Polyethylene Glycol	Rabbit	Minimal irritation
Aluminium oxide	Rabbit	No significant irritation

### Serious Eye Damage/Irritation

Name	Species	Value
Phosphoric Acid	official classification	Corrosive
Synthetic amorphous silica, fumed, crystalline-free	Rabbit	No significant irritation
Polyethylene Glycol	Rabbit	Mild irritant
Aluminium oxide	Rabbit	No significant irritation

#### **Skin Sensitisation**

Name	Species	Value
Phosphoric Acid	Human	Not classified
Synthetic amorphous silica, fumed, crystalline-free	Human and animal	Not classified
Polyethylene Glycol	Guinea pig	Not classified

### **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
Phosphoric Acid	In Vitro	Not mutagenic
Synthetic amorphous silica, fumed, crystalline-free	In Vitro	Not mutagenic

Polyethylene Glycol	In Vitro	Not mutagenic
Polyethylene Glycol	In vivo	Not mutagenic
Aluminium oxide	In Vitro	Not mutagenic

### Carcinogenicity

Name	Route	Species	Value
Synthetic amorphous silica, fumed, crystalline-free	Not specified.	Mouse	Some positive data exist, but the data are not sufficient for classification
Polyethylene Glycol	Ingestion	Rat	Not carcinogenic
Aluminium oxide	Inhalation	Rat	Not carcinogenic

## **Reproductive Toxicity**

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

Name	Route	Value	Species	Test result	<b>Exposure Duration</b>
Phosphoric Acid	Ingestion	Not classified for female reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
Phosphoric Acid	Ingestion	Not classified for male reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
Phosphoric Acid	Ingestion	Not classified for development	Rat	NOAEL 750 mg/kg/day	2 generation
Synthetic amorphous silica, fumed, crystalline-free	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Synthetic amorphous silica, fumed, crystalline-free	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Synthetic amorphous silica, fumed, crystalline-free	Ingestion	Not classified for development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis
Polyethylene Glycol	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,125 mg/kg/day	during gestation
Polyethylene Glycol	Ingestion	Not classified for male reproduction	Rat	NOAEL 5699 +/-1341 mg/kg/day	5 days
Polyethylene Glycol	Not specified.	Not classified for reproduction and/or development		NOEL N/A	
Polyethylene Glycol	Ingestion	Not classified for development	Mouse	NOAEL 562 mg/animal/da y	during gestation

## Target Organ(s)

### Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Phosphoric Acid	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
Polyethylene Glycol	Inhalation	respiratory irritation	Not classified	Rat	NOAEL 1.008 mg/l	2 weeks

## Specific Target Organ Toxicity - repeated exposure

NameRouteTarget Organ(s)Value	Species Test result Exposure Duration
----------------------------------	--

Synthetic amorphous silica, fumed, crystalline- free	Inhalation	respiratory system   silicosis	Not classified	Human	NOAEL Not available	occupational exposure
Polyethylene Glycol	Inhalation	respiratory system	Not classified	Rat	NOAEL 1.008 mg/l	2 weeks
Polyethylene Glycol	Ingestion	kidney and/or bladder   heart   endocrine system   hematopoietic system   liver   nervous system	Not classified	Rat	NOAEL 5,640 mg/kg/day	13 weeks
Aluminium oxide	Inhalation	pneumoconiosis	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
Aluminium oxide	Inhalation	pulmonary fibrosis	Not classified	Human	NOAEL Not available	occupational exposure

#### **Aspiration Hazard**

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

#### **Exposure Levels**

Refer Section 8.1 Control Parameters of this Safety Data Sheet.

#### **Interactive Effects**

Not determined.

## **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

### Acute aquatic hazard:

Not acutely toxic to aquatic life by GHS criteria.

#### Chronic aquatic hazard:

Not chronically toxic to aquatic life by GHS criteria.

No product test data available.

Material	CAS Number	Organism	Туре	Exposure	Test endpoint	Test result
Phosphoric Acid	7664-38-2	Green algae	Experimental	72 hours	EC50	>100 mg/l
Phosphoric Acid	7664-38-2	Water flea	Experimental	48 hours	EC50	>100 mg/l
Phosphoric Acid	7664-38-2	Green algae	Experimental	72 hours	NOEC	100 mg/l
Synthetic	112945-52-5	Green Algae	Experimental	72 hours	EC50	>100 mg/l

silica, fumed, crystalline-free112945-52-5Water fleaExperimental24 hoursEC50>100 mg/lSynthetic amorphous silica, fumed, crystalline-free112945-52-5Zebra FishExperimental96 hoursLC50>100 mg/lSynthetic amorphous silica, fumed, crystalline-free112945-52-5Zebra FishExperimental96 hoursLC50>100 mg/lSynthetic amorphous silica, fumed, crystalline-free112945-52-5Green AlgaeExperimental72 hoursNOEC60 mg/lSynthetic amorphous silica, fumed, crystalline-free112945-52-5Green AlgaeExperimental72 hoursNOEC60 mg/lSynthetic amorphous silica, fumed, crystalline-free112945-52-5Green AlgaeExperimental72 hoursNOEC60 mg/lPolyethylene Glycol25322-68-3 SalmonActivated sludgeExperimental96 hoursLC50>1,000 mg/lAluminium oxide1344-28-1FishExperimental96 hoursLC50>100 mg/lAluminium1344-28-1Green AlgaeExperimental72 hoursEC50>100 mg/l			T	Т	I	T	1
crystalline-freeImage: silica, fumed, crystalline-freeImage: silica, fumed, crystalline-freeImage: silica, fumed, crystalline-freeSynthetic amorphousImage: silica, fumed, crystalline-freeSynthetic amorphousImage: silica, fumed, crystalline-freeSynthetic amorphousSilica, fumed, crystalline-freeSector Silica, fumed, crystalline-freeS	amorphous						
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silica, fumed, crystalline-freeSilica, fumed, crystalline-freeSilica	Synthetic	112945-52-5	Green Algae	Experimental	72 hours	NOEC	60 mg/l
crystalline-freeActivatedExperimentalEC50>1,000 mg/lPolyethylene25322-68-3ActivatedExperimentalEC50>1,000 mg/lGlycol25322-68-3AtlanticExperimental96 hoursLC50>1,000 mg/lGlycolSalmonSalmonExperimental96 hoursLC50>100 mg/lAluminium1344-28-1FishExperimental96 hoursLC50>100 mg/lAluminium1344-28-1Green AlgaeExperimental72 hoursEC50>100 mg/l	amorphous						
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oxide P P P   Aluminium 1344-28-1 Green Algae Experimental 72 hours EC50 >100 mg/l	Glycol		Salmon	_			_
Aluminium     1344-28-1     Green Algae     Experimental     72 hours     EC50     >100 mg/l	Aluminium	1344-28-1	Fish	Experimental	96 hours	LC50	>100 mg/l
	oxide			1			
	Aluminium	1344-28-1	Green Algae	Experimental	72 hours	EC50	>100 mg/l
	oxide			1			C
Aluminium 1344-28-1 Water flea Experimental 48 hours LC50 >100 mg/l	Aluminium	1344-28-1	Water flea	Experimental	48 hours	LC50	>100 mg/l
	oxide						
Aluminium 1344-28-1 Green Algae Experimental 72 hours NOEC >100 mg/l	Aluminium	1344-28-1	Green Algae	Experimental	72 hours	NOEC	>100 mg/l
	oxide						

## 12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Phosphoric	7664-38-2	Data not	N/A	N/A	N/A	N/A
Acid		available-				
		insufficient				
Synthetic	112945-52-5	Data not	N/A	N/A	N/A	N/A
amorphous		available-				
silica, fumed,		insufficient				
crystalline-free						
Polyethylene	25322-68-3	Experimental	28 days	BOD	53 %	OECD 301C - MITI
Glycol		Biodegradation	_		BOD/ThOD	test (I)
Aluminium	1344-28-1	Data not	N/A	N/A	N/A	N/A
oxide		available-				
		insufficient				

## **12.3 : Bioaccumulative potential**

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Phosphoric Acid	7664-38-2	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Synthetic amorphous silica, fumed,	112945-52-5	Data not available or insufficient for	N/A	N/A	N/A	N/A

crystalline-free		classification				
Polyethylene Glycol	25322-68-3	Estimated Bioconcentrati on		Bioaccumulatio n factor		Estimated: Bioconcentration factor
Aluminium oxide	1344-28-1	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

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

Incinerate in a permitted waste incineration facility.

## **SECTION 14: Transport Information**

### Australian Dangerous Goods Code (ADG) - Road/Rail Transport

UN No.: UN1805 Proper shipping name: PHOSPHORIC ACID SOLUTION Class/Division: 8 Sub Risk: Not applicable. Packing Group: III Special Instructions: Dangerous Goods in Excepted Quantities, Class 8 Hazchem Code: 2R IERG: 37

#### International Air Transport Association (IATA) - Air Transport UN No.: UN1805 Proper shipping name: PHOSPHORIC ACID SOLUTION Class/Division: 8 Sub Risk: Not applicable. Packing Group: III Special Instructions: Dangerous Goods in Excepted Quantities, Class 8

International Maritime Dangerous Goods Code (IMDG)- Marine Transport UN No.: UN1805 Proper shipping name: PHOSPHORIC ACID SOLUTION Class/Division: 8 Sub Risk: Not applicable. Packing Group: III Marine Pollutant: Not applicable. Special Instructions: Forbidden due to internal policy

## **SECTION 15: Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Australian Inventory Status:

This product is regulated by the Therapeutics Goods Administration and is exempt from compliance with the Industrial Chemicals (Notification and Assessment) Act 1989 as amended.

## **SECTION 16: Other information**

### **Revision information:**

Complete document review.

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Safety Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

Greenguard ® is a United States based program. The 'Low VOC' reference related to United States Federal and State regulations exemptions for some solvents.

### 3M Australia SDSs are available at www.3m.com.au