

Safety Data Sheet

Copyright, 2022, 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:
 41-6512-2
 Version number:
 2.00

 Issue Date:
 29/05/2022
 Supersedes date:
 01/03/2021

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)

IDENTIFICATION:

1.1. Product identifier

3MTM ScotchbondTM Universal Plus IntroKit Vial (41293)

Product Identification Numbers

UU-0109-0320-9

1.2. Recommended use and restrictions on use

Recommended use

Dental Product, Dental Adhesive and Etching Gel

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, 41-4437-4

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

Proper shipping name:

FLAMMABLE LIQUID, CORROSIVE, N.O.S., ((Ethanol, 2-Propenoic Acid, 2-Methyl-, Reaction Product with 1.10-

Decanediol and Phosphorus Oxide))

Class/Division: 3
Packing Group: II

Marine Pollutant: Not applicable.

Sub Risk: 8

Hazchem Code: -3WE

IERG: 18

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 due to internal 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

Copyright, 2022, 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:
 41-4437-4
 Version number:
 2.00

 Issue Date:
 06/07/2022
 Supersedes date:
 08/03/2021

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

3MTM ScotchbondTM Universal Plus Vial (41294, 41295, 41296, 41307)

Product Identification Numbers

UU-0109-0661-6 UU-0109-0662-4 UU-0109-0663-2

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 eve 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:

3M[™] Scotchbond[™] Universal Plus Vial (41294, 41295, 41296, 41307)

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 4,6-dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers	2305048-54-6	25 - 35
2-Hydroxyethyl Methacrylate	868-77-9	15 - 25
2-Propenoic acid, 2-methyl-, reaction products with 1,10-decanediol and phosphorus oxide (P2O5)	1207736-18-2	< 20
2-Propenoic acid, 2-methyl-, 3- (triethoxysilyl)propyl ester, reaction products with silica and 3-(triethoxysilyl)-1- propanamine	2680625-03-8	5 - 15
Ethanol	64-17-5	5 - 15
Water	7732-18-5	5 - 15
Synthetic amorphous silica, fumed, crystalline-free	112945-52-5	< 10
Methacrylic Acid, 3-(Triethoxysilyl)Propyl Ester	21142-29-0	< 5
Camphorquinone	10373-78-1	< 2
Copolymer of Acrylic and Itaconic Acid	25948-33-8	< 2
N,N-Dimethylbenzocaine	10287-53-3	< 2
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

3MTM ScotchbondTM Universal Plus Vial (41294, 41295, 41296, 41307)

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
Silicon dioxide	112945-52-	Australia OELs	TWA(respirable fraction)(8	
	5		hours):2 mg/m3	
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

	Information on basic physical and chemical properties				
Physical state	Liquid.				
Specific Physical Form:	Viscous Liquid				
Colour	Yellow				
Odour	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 Density	No data available.				
Density	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 temperature	No 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

Substance

Condition

None known.

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 with 4,6-dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers	Dermal	Professional judgement	LD50 estimated to be > 5,000 mg/kg
2-Propenoic acid, 2-methyl-, diesters with 4,6-dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers	Ingestion	Rat	LD50 > 2,000 mg/kg
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 hours)	Rat	LC50 124.7 mg/l
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
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
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
N,N-Dimethylbenzocaine	Dermal	Rat	LD50 > 2,000 mg/kg
N,N-Dimethylbenzocaine	Ingestion	Rat	LD50 > 2,000 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)		
Synthetic amorphous silica, fumed, crystalline-free	Rabbit	No significant irritation
N,N-Dimethylbenzocaine	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
2-Propenoic acid, 2-methyl-, diesters with 4,6-dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl	In vitro data	No significant irritation

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)		
Synthetic amorphous silica, fumed, crystalline-free	Rabbit	No significant irritation
N,N-Dimethylbenzocaine	Rabbit	No significant irritation

Skin Sensitisation

Name	Species	Value
2-Propenoic acid, 2-methyl-, diesters with 4,6-	Professional judgement	Sensitising
dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl		
3-hydroxypropyl diethers		
2-Hydroxyethyl Methacrylate	Human and animal	Sensitising
Ethanol	Human	Not classified
2-Propenoic acid, 2-methyl-, reaction products with	Mouse	Sensitising
1,10-decanediol and phosphorus oxide (P2O5)		
Synthetic amorphous silica, fumed, crystalline-free	Human and animal	Not classified
N,N-Dimethylbenzocaine		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
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
Synthetic amorphous silica, fumed, crystalline-free	In Vitro	Not mutagenic
N,N-Dimethylbenzocaine	In vivo	Not mutagenic
N,N-Dimethylbenzocaine	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
Synthetic amorphous silica, fumed,	Not specified.	Mouse	Some positive data exist, but the data
crystalline-free			are not sufficient for classification

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name Route Value Species Test result	Exposure Duration
--------------------------------------	-------------------

Page: 9 of 20

2-Propenoic acid, 2-methyl-, diesters with 4,6-dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers 2-Propenoic acid, 2-	Ingestion	Not classified for female reproduction Not classified for	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
methyl-, diesters with 4,6-dibromo-1,3- benzenediol 2-(2- hydroxyethoxy)ethyl 3-hydroxypropyl diethers	Ingestion	male reproduction	Kat	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 diethers	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
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
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
N,N- Dimethylbenzocaine	Ingestion	Not classified for female reproduction	Rat	NOAEL 600 mg/kg/day	premating into lactation
N,N- Dimethylbenzocaine	Ingestion	Not classified for development	Rat	NOAEL 50 mg/kg/day	premating into lactation
N,N- Dimethylbenzocaine	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	Inhalation	respiratory	Some positive	similar health	NOAEL Not	
acid, 2-		irritation	data exist, but the	hazards	available	
methyl-,			data are not			
diesters with			sufficient for			

Page 10 of

4,6-dibromo- 1,3- benzenediol 2-(2- hydroxyethox y)ethyl 3- hydroxypropy 1 diethers			classification			
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 1,10- decanediol and phosphorus oxide (P2O5)	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
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	Value	Species	Test result	Exposure
		Organ(s)				Duration
2-Propenoic	Ingestion	heart endocrine	Not classified	Rat	NOAEL 1,000	29 days
acid, 2-		system			mg/kg/day	
methyl-,		gastrointestinal				
diesters with		tract bone,				
4,6-dibromo-		teeth, nails,				
1,3-		and/or hair				
benzenediol		hematopoietic				
2-(2-		system liver				
hydroxyethox		immune system				
y)ethyl 3-		muscles				
hydroxypropy		nervous system				
1 diethers		eyes kidney				
		and/or bladder				
		respiratory				
		system				
Ethanol	Inhalation	liver	Some positive	Rabbit	LOAEL 124	365 days
			data exist, but the		mg/l	
			data are not			
			sufficient for			
			classification			
Ethanol	Inhalation	hematopoietic	Not classified	Rat	NOAEL 25 mg/l	14 days
		system				
		immune system				

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
Synthetic amorphous silica, fumed, crystalline- free	Inhalation	respiratory system silicosis	Not classified	Human	NOAEL Not available	occupational exposure
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
N,N- Dimethylbenz ocaine	Ingestion	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 74 mg/kg/day	28 days
N,N- Dimethylbenz ocaine	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
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						

r-	T	T	T	T	T	
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		J	F			3
Methacrylate						
2-	868-77-9	Water flea	Experimental	21 days	NOEC	24.1 mg/l
Hydroxyethyl		vv ater riea	Experimental	21 days	TOLE	
Methacrylate						
2-	868-77-9		Experimental	16 hours	EC0	>3,000 mg/l
	000-77-9		Experimental	10 Hours	ECO	/3,000 mg/1
Hydroxyethyl						
Methacrylate	0.60.77.0		D : 1	10.1	1.050	1 0
2-	868-77-9		Experimental	18 hours	LD50	<98 mg per kg of
Hydroxyethyl						bodyweight
Methacrylate						
2-Propenoic	1207736-18-2	Green algae	Experimental	72 hours	EC50	0.718 mg/l
acid, 2-methyl-,						
reaction						
products with						
1,10-						
decanediol and						
phosphorus						
oxide (P2O5)						
2-Propenoic	1207736-18-2	Water flea	Experimental	48 hours	EL50	>104 mg/l
acid, 2-methyl-,			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-,	1207730-16-2	Green argae	Experimental	/2 Hours	NOEC	0.1 mg/1
reaction						
products with 1,10-						
decanediol and						
phosphorus						
oxide (P2O5)	64 17 5	D (1 1	D : 1	061	1.050	14.200 /1
Ethanol	64-17-5	Fathead	Experimental	96 hours	LC50	14,200 mg/l
Total 1	64.15.5	minnow	<u> </u>	061	J. G.5.	11.000 "
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	Water flea	Experimental	48 hours	LC50	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
Synthetic	112945-52-5	Green algae	Experimental	72 hours	EC50	>100 mg/l
amorphous			1			
silica, fumed,						
crystalline-free						
Synthetic	112945-52-5	Water flea	Experimental	24 hours	EC50	>100 mg/l
amorphous	1127-73-32-3	, valor rica	Laperinicitai	2-7 HOUIS		100 mg/1
amorphous	<u> </u>	1	1			

silica, fumed,	Ι	T		1	1	
crystalline-free						
Synthetic	112945-52-5	Zebra Fish	Experimental	96 hours	LC50	>100 mg/l
amorphous	112943-32-3	Zeora Pisii	Experimental	90 Hours	LC30	100 mg/1
silica, fumed,						
crystalline-free						
Synthetic	112945-52-5	Green algae	Experimental	72 hours	NOEC	60 mg/l
amorphous	112943-32-3	Green algae	Experimental	/2 Hours	NOLC	loo mg/i
silica, fumed,						
crystalline-free						
Methacrylic	21142-29-0		Data not			N/A
Acid, 3-	21142-29-0		available or			IN/A
(Triethoxysilyl)			insufficient for			
Propyl Ester			classification			
Camphorquino	10373-78-1		Data not			N/A
	103/3-/6-1		available or			IN/A
ne			insufficient for			
			classification			
Copolymer of	25948-33-8	 	Data not	+		N/A
Acrylic and	23940-33-0		available or			IN/A
Itaconic Acid			insufficient for			
itacome Acid			classification			
N,N-	10287-53-3	Activated	Experimental	3 hours	EC50	>1,000 mg/l
Dimethylbenzo	10207-33-3	sludge	Experimental	3 Hours	LC30	- 1,000 mg/1
caine		Studge				
N,N-	10287-53-3	Green algae	Experimental	72 hours	EC50	2.8 mg/l
Dimethylbenzo	10207 33 3	Green argue	Experimental	72 110415	Leso	2.0 mg/1
caine						
N,N-	10287-53-3	Rainbow trout	Experimental	96 hours	LC50	1.9 mg/l
Dimethylbenzo	1020, 00 0		2.19 •1.111•111	9 0 110 6115		11.5 11.8 1
caine						
N,N-	10287-53-3	Water flea	Experimental	48 hours	EC50	4.5 mg/l
Dimethylbenzo						1.0 -2.5
caine						
N,N-	10287-53-3	Green algae	Experimental	72 hours	ErC10	0.71 mg/l
Dimethylbenzo						
caine						
Acetic acid,	6046-93-1	Green algae	Estimated	72 hours	EC50	0.33 mg/l
copper(2+) salt,						
monohydrate						
Acetic acid,	6046-93-1	Water flea	Estimated	48 hours	EC50	0.04 mg/l
copper(2+) salt,						
monohydrate						
Acetic acid,	6046-93-1	Zebra Fish	Estimated	96 hours	LC50	0.037 mg/l
copper(2+) salt,						
monohydrate						
Acetic acid,	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,			1.74			
monohydrate						
Acetic acid,	6046-93-1	Water flea	Estimated	7 days	NOEC	0.01 mg/l
copper(2+) salt,						
monohydrate						
uruce	I .	1	1	1		1

Page: 15 of 20

Acetic acid, copper(2+) salt, monohydrate	6046-93-1	Activated sludge	Estimated		EC50	22 mg/l
Acetic acid, copper(2+) salt, monohydrate	6046-93-1	Barley	Estimated	4 days	NOEC	50 mg/kg (Dry Weight)
Acetic acid, copper(2+) salt, monohydrate	6046-93-1	Bobwhite quail	Estimated	14 days	LD50	4,402 mg per kg of bodyweight
Acetic acid, copper(2+) salt, monohydrate	6046-93-1	Redworm	Estimated	56 days	NOEC	31 mg/kg (Dry Weight)
Acetic acid, copper(2+) salt, monohydrate	6046-93-1	Sediment Worm	Estimated	28 days	NOEC	57.5 mg/kg (Dry Weight)
Acetic acid, copper(2+) salt, monohydrate	6046-93-1	Soil microbes	Estimated	4 days	NOEC	38 mg/kg (Dry Weight)
Acetic acid, copper(2+) salt, monohydrate	6046-93-1	Springtail	Estimated	28 days	NOEC	87.7 mg/kg (Dry Weight)

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				рН		
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				Manometric
reaction					OD	respirometry
products with						
1,10-						
decanediol and						
phosphorus						
oxide (P2O5)						
2-Propenoic	2680625-03-8	Data not	N/A	N/A	N/A	N/A
acid, 2-methyl-,		available-				
3-		insufficient				
(triethoxysilyl)						
propyl ester,						

				1		
reaction						
products with						
silica and 3-						
(triethoxysilyl)-						
1-propanamine						
Ethanol	64-17-5	Experimental	14 days	BOD	89 %BOD/ThB	OECD 301C - MITI
		Biodegradation			OD	test (I)
Synthetic	112945-52-5	Data not	N/A	N/A	N/A	N/A
amorphous		available-				
silica, fumed,		insufficient				
crystalline-free						
Methacrylic	21142-29-0	Data not	N/A	N/A	N/A	N/A
Acid, 3-		available-				
(Triethoxysilyl)		insufficient				
Propyl Ester						
Camphorquino	10373-78-1	Estimated	28 days	BOD	20.6 %BOD/Th	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				
N,N-	10287-53-3	Experimental	28 days	CO2 evolution	40 %CO2	OECD 301B - Modified
Dimethylbenzo		Biodegradation			evolution/THC	sturm or CO2
caine					O2 evolution	
Acetic acid,	6046-93-1	Analogous	14 days	BOD	74 %BOD/ThB	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 TM
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 < 49	ī	1	ı	1	Γ	<u> </u>
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						
2-	868-77-9	Experimental		Log Kow	0.42	OECD 107 log Kow
Hydroxyethyl		Bioconcentrati				shke flsk mtd
Methacrylate		on				
2-Propenoic	1207736-18-2	Modeled		Log Kow	-2.02	ACD/Labs
acid, 2-methyl-,		Bioconcentrati				ChemSketch TM
reaction		on				
products with						
1,10-						
decanediol and						
phosphorus						
oxide (P2O5)						
2-Propenoic	2680625-03-8	Data not	N/A	N/A	N/A	N/A
acid, 2-methyl-,		available or			- "	
3-		insufficient for				
(triethoxysilyl)		classification				
propyl ester,						
reaction						
products with						
silica and 3-						
(triethoxysilyl)-						
1-propanamine						
Ethanol	64-17-5	Experimental		Log Kow	-0.35	Non-standard method
Ziiiwiioi		Bioconcentrati		208 110	0.50	
		on				
Synthetic	112945-52-5	Data not	N/A	N/A	N/A	N/A
amorphous	32 3	available or	[<u>.</u>		[
silica, fumed,		insufficient for				
crystalline-free		classification				
IVI VSIAITITE-TIEE	1		l	N/A	NT/A	NT/A
	21142-29-0	Data not	IN/A	HN/A	IN/A	IIN/A
Methacrylic	21142-29-0	Data not	N/A	IN/A	N/A	N/A
Methacrylic Acid, 3-		available or	N/A	IN/A	N/A	IN/A
Methacrylic Acid, 3- (Triethoxysilyl)		available or insufficient for	N/A	IN/A	N/A	IN/A
Methacrylic Acid, 3- (Triethoxysilyl) Propyl Ester		available or insufficient for classification	N/A			
Methacrylic Acid, 3- (Triethoxysilyl) Propyl Ester Camphorquino		available or insufficient for classification Estimated	N/A	Bioaccumulatio		Estimated:
Methacrylic Acid, 3- (Triethoxysilyl) Propyl Ester		available or insufficient for classification Estimated Bioconcentrati	N/A			
Methacrylic Acid, 3- (Triethoxysilyl) Propyl Ester Camphorquino		available or insufficient for classification Estimated	N/A	Bioaccumulatio		Estimated:

Acrylic and Itaconic Acid		available or insufficient for classification			
N,N- Dimethylbenzo caine	10287-53-3	Experimental Bioconcentrati on	Log Kow	3.2	Non-standard method
Acetic acid, copper(2+) salt, monohydrate	6046-93-1	Analogous Compound Bioconcentrati	Log Kow	-0.17	

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 with 1,10-Decanediol and Phosphorus Oxide (P2O5))

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 with 1,10-Decanediol and Phosphorus Oxide (P2O5)

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 with 1,10-Decanediol and Phosphorus Oxide (P2O5))

Class/Division: 3 Sub Risk: 8

3M[™] Scotchbond[™] Universal Plus Vial (41294, 41295, 41296, 41307)

Packing Group: II

Marine Pollutant: Not applicable.

Special Instructions: Forbidden by this mode of Transport, 3M Division 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

Copyright, 2022, 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:
 29-8286-6
 Version number:
 5.00

 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[™] Scotchbond[™] 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 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

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

SubstanceConditionCarbon monoxide.During combustion.Carbon dioxide.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	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 ³	
Phosphoric Acid	7664-38-2	ACGIH	TWA: 1 mg/m³; STEL: 3	
			mg/m³	
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

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

3MTM ScotchbondTM Universal Etchant (41263)

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

Substance

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.

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

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

3MTM ScotchbondTM Universal Etchant (41263)

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,	Not specified.	Mouse	Some positive data exist, but the data
crystalline-free	_		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	Exposure Duration
Phosphoric Acid	Phosphoric Acid Ingestion		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

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

amorphous silica, fumed, crystalline-free						
Synthetic amorphous silica, fumed, crystalline-free	112945-52-5	Water flea	Experimental	24 hours	EC50	>100 mg/l
Synthetic amorphous silica, fumed, crystalline-free	112945-52-5	Zebra Fish	Experimental	96 hours	LC50	>100 mg/l
Synthetic amorphous silica, fumed, crystalline-free	112945-52-5	Green Algae	Experimental	72 hours	NOEC	60 mg/l
Polyethylene Glycol	25322-68-3	Activated sludge	Experimental		EC50	>1,000 mg/l
Polyethylene Glycol	25322-68-3	Atlantic Salmon	Experimental	96 hours	LC50	>1,000 mg/l
Aluminium oxide	1344-28-1	Fish	Experimental	96 hours	LC50	>100 mg/l
Aluminium oxide	1344-28-1	Green Algae	Experimental	72 hours	EC50	>100 mg/l
Aluminium oxide	1344-28-1	Water flea	Experimental	48 hours	LC50	>100 mg/l
Aluminium oxide	1344-28-1	Green Algae	Experimental	72 hours	NOEC	>100 mg/l

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	7664-38-2	Data not	N/A	N/A	N/A	N/A
Acid		available or				
		insufficient for				
		classification				
Synthetic	112945-52-5	Data not	N/A	N/A	N/A	N/A
amorphous		available or				
silica, fumed,		insufficient for				

crystalline-free		classification				
Polyethylene	25322-68-3	Estimated		Bioaccumulatio	2.3	Estimated:
Glycol		Bioconcentrati		n factor		Bioconcentration factor
		on				
Aluminium	1344-28-1	Data not	N/A	N/A	N/A	N/A
oxide		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

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