HENRY SCHEIN®
DENTAL

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Material Safety Data Sheet Cover-Sheet – This page provides additional New Zealand specific information for this product and must be read in conjunction with the Safety Data Sheet (SDS) attached

Product Name:	NX3 Nexus Third Generation Dual Cure Base & Catalyst
Manufacturer:	Kerr Italia S.r.l.
SDS Expiry:	3 June 2031
Supplier Details:	Henry Schein New Zealand 243-249 Bush Road, Rosedale, Auckland, 0632 PO Box 101 140, North Shore, Auckland 0745 Ph. 0800 808 855 www.henryschein.co.nz
Emergency Contacts:	Poisons/Hazardous Chemical Info Centre – 0800POISON/0800764766 (24 Hours) Phone 111 for Fire, Ambulance or Police
HSNO Class/Category:	6.3A, 6.4A, 6.5B, 6.8A, 9.1C
HSNO Group Standard:	Dental Products Subsidiary Hazard Group Standard 2020 HSR002558
Statements/Pictograms:	As per attached Safety Data Sheet (SDS)
Date Prepared:	This coversheet was prepared – October 2026

This SDS coversheet has been produced by Henry Schein NZ and has been prepared in accordance with NZ EPA advice on making overseas SDS compliant to HSNO Act. The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or the specifications of the product. Users must satisfy that the product is entirely suitable for their purpose. The SDS and this coversheet may be revised from time to time, please ensure you have a current copy.

NX3 Nexus Third Generation Dual Cure_Base

Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)
Issue date: 3/06/2026

SECTION 1: Identification

1.1 Product identifier

Product name : NX3 Nexus Third Generation Dual Cure_Base
Product form : Mixture

1.2 Other means of identification

No additional information available

1.3 Recommended use of the chemical and restrictions on use

Recommended use : Dental product: Permanent cement
Restrictions on use : For professional use only

1.4 Details of manufacturer or importer

Manufacturer
Kerr Italia, S.r.l.
Via Passanti, 174
Scafati (SA) 84018, Italy
T +39 081 850 3511

Distributor
Kerr Australia Pty Limited
Unit 6, 12 Mars Road
Lane Cove West, NSW 2066
Australia
T 1-800-643-603
queries.anz@kerrdental.com

1.5. Emergency phone number

Emergency number : (Chemical Spills, Leaks, Fire, Exposure or Accident only): CHEMTREC 1-800-424-9300 (in the US), 1-703-527-3887 (Outside the US)

Country/Area	Organisation	Emergency number
New Zealand	National Poisons Centre. PO Box 56 9054 Dunedin.	0800 764 766

SECTION 2: Hazard identification

2.1. Classification of the hazardous chemical

HSNO Approval Number : HSR002558

Classification according to the Environmental Protection Authority notices (EPA Hazardous Substances and New Organisms Act 1996)

Skin sensitisation, Category 1	H317
Reproductive toxicity, Category 1	H360
Hazardous to the aquatic environment – Chronic Hazard, Category 3	H412

2.2. GHS Label elements, including precautionary statements

GHS NZ labelling

Hazard pictograms (GHS NZ) :



Signal word (GHS NZ) : Danger
Contains : Urethane dimethacrylate (7-13 %); Triethylene glycol dimethacrylate (5-10 %); 2-Hydroxyethyl methacrylate (0.5-5 %); Ethyl 4-dimethylaminobenzoate (0.1-1 %)
Hazard statements (GHS NZ) : H317 - May cause an allergic skin reaction
H360 - May damage fertility or the unborn child (if swallowed)
H412 - Harmful to aquatic life with long lasting effects

Prevention	:	P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P261 - Avoid breathing dust. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear protective gloves.
Response	:	P308+P313 - IF exposed or concerned: Get medical advice/attention. P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse.
Storage	:	P405 - Store locked up.
Disposal	:	P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3: Composition and information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to GHS NZ
Ytterbium Trifluoride	CAS-No.: 13760-80-0	10-30	Not classified
Ethoxylated bisphenol A dimethacrylate	CAS-No.: 41637-38-1	7-13	Aquatic Chronic 4, H413
Urethane dimethacrylate	CAS-No.: 72869-86-4	7-13	Skin Sens. 1B, H317 Aquatic Chronic 2, H411
Triethylene glycol dimethacrylate	CAS-No.: 109-16-0	5-10	Skin Sens. 1B, H317
Pyrogenic (Fumed) Amorphous Silica	CAS-No.: 68909-20-6	1-5	Not classified
2-Hydroxyethyl methacrylate	CAS-No.: 868-77-9	0.5-5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Ethyl 4-dimethylaminobenzoate	CAS-No.: 10287-53-3	0.1-1	Repr. 1, H360 Aquatic Chronic 2, H411

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures after inhalation	:	Move the affected person to fresh air. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact	:	Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	:	Rinse eyes with water as a precaution. Get medical attention if irritation develops and persists.
First-aid measures after ingestion	:	Do NOT induce vomiting. Rinse mouth. Get medical advice/attention if you feel unwell.

4.2. Symptoms caused by exposure

Inhalation	:	May cause minor irritation to the respiratory tract and to other mucous membranes.
Skin	:	May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking.
Eyes	:	Direct contact with the eyes is likely to be irritating.
Ingestion	:	May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic symptoms	:	This product may cause reproductive harm and/or developmental effects. Prolonged absorption of fluorides may result in fluorosis. Symptoms include joint pain, changes in bone density (osteosclerosis), ossification of ligaments, limited mobility, teeth abnormalities and mottling of the dental enamel.

4.3. Medical attention and special treatment

Other medical advice or treatment	:	Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media	:	Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	:	None known.

5.2. Specific hazards arising from the chemical

Fire hazard	:	This product is not classified as flammable or combustible.
Explosion hazard	:	Intense heat may cause container to burst.
General measures	:	Do not touch or walk on the spilled product.
Hazardous decomposition products in case of fire	:	Carbon oxides (CO, CO2). Nitrogen oxides. Phosphorus oxides. Metallic oxides.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	:	Cool down the containers exposed to heat with a water spray. Exercise caution when fighting any chemical fire. Do not allow run-off from firefighting to enter drains or water courses.
Protection during firefighting	:	Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	:	Do not touch or walk on the spilled product.

6.1.1. For non-emergency personnel

Protective equipment	:	Wear recommended personal protective equipment.
Emergency procedures	:	Avoid contact with eyes, skin and clothing. Avoid breathing dust.

6.1.2. For emergency responders

Protective equipment	:	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and materials for containment and cleaning up

For containment	:	Stop leak if safe to do so.
Methods for cleaning up	:	Absorb and/or contain spill with inert material, then place in suitable container. Avoid dust formation. Wash contaminated area with large amounts of water.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with eyes, skin and clothing. Wear personal protective equipment. Avoid breathing dust. Ensure adequate ventilation.
Hygiene measures	:	Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in dry, cool, well-ventilated area. Store in original container. Keep away from heat and direct sunlight. Protect from physical damage. Keep container tightly closed. Store away from incompatible materials.

SECTION 8: Exposure controls and personal protection

8.1. Control parameters - exposure standards

Pyrogenic (Fumed) Amorphous Silica (68909-20-6)	
New Zealand - Occupational Exposure Limits	
Local name	Silica-Amorphous
WES-TWA (OEL TWA)	10 mg/m³
Regulatory reference	Workplace Exposure Standards and Biological Exposure Indices, 14th Edition

Ytterbium Trifluoride (13760-80-0)	
New Zealand - Occupational Exposure Limits	
Local name	Fluorides, as F
WES-TWA (OEL TWA)	2.5 mg/m³
Regulatory reference	Workplace Exposure Standards and Biological Exposure Indices, 14th Edition
New Zealand - Biological Exposure Indices	
Local name	Fluorides
BEI	2 mg/l Parameter: Fluoride - Medium: Urine - Sampling time: Prior to shift 3 mg/l Parameter: Fluoride - Medium: Urine - Sampling time: End of shift
Remark	– The BEI is not applicable to non-metal fluorides and organic fluoride-containing compounds – As dietary and environmental factors can vary the fluoride body concentrations, repeated measurements are necessary – Biological levels of fluorides are indicators of the potential risk of systemic toxicity and cannot be used for the evaluation of irritative effects
Regulatory reference	Workplace Exposure Standards and Biological Exposure Indices, 14th Edition

Exposure limit values for the other components

No additional information available

8.2. Monitoring methods

No additional information available

8.3. Engineering controls

Appropriate engineering controls : Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

8.4. Individual protection measures, such as personal protective equipment (PPE)

Hand protection : Wear protective gloves. Contact your glove supplier for selection assistance.

Eye protection : Wear safety goggles or other eye protection to prevent eye contact.

Skin and body protection : Wear suitable protective clothing

Respiratory protection : No respiratory protection needed under normal use conditions. In operations where exposure limits are exceeded or exposure levels are excessive, an approved respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

SECTION 9: Physical and chemical properties

Physical state	:	Paste.
Appearance	:	Coloured paste.
Colour	:	Various colours
Odour	:	Fruity ester-like
Odour threshold	:	No additional information available
pH	:	No additional information available
Evaporation rate	:	No additional information available
Melting point / Freezing point	:	No additional information available
Boiling point	:	No data available
Flash point	:	Not flammable
Auto-ignition temperature	:	No data available
Flammability	:	No additional information available
Vapour pressure	:	No additional information available
Relative density	:	No additional information available
Density	:	Relative density: 2 – 2.5
Solubility	:	Insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Explosive limits	:	No additional information available
Minimum ignition energy	:	No data available

SECTION 10: Stability and reactivity

Reactivity	:	The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reactions known under normal conditions of use. Hazardous polymerization may occur if exposed to high temperature.
Conditions to avoid	:	Keep away from heat, sparks and flame.
Incompatible materials	:	Oxidizing agent. Reducing agents. Peroxides. Amines.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Toxicity

Acute toxicity (oral)	:	Not classified
Acute toxicity (dermal)	:	Not classified
Acute toxicity (inhalation)	:	Not classified

Urethane dimethacrylate (72869-86-4)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg

2-Hydroxyethyl methacrylate (868-77-9)	
LD50 oral rat	5564 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg bodyweight

Ethyl 4-dimethylaminobenzoate (10287-53-3)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg

Pyrogenic (Fumed) Amorphous Silica (68909-20-6)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

Ytterbium Trifluoride (13760-80-0)	
LD50 oral rat	> 2000 mg/kg

Ethoxylated bisphenol A dimethacrylate (41637-38-1)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg

Triethylene glycol dimethacrylate (109-16-0)	
LD50 oral rat	10837 g/kg

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : May damage fertility or the unborn child (if swallowed).

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Ethoxylated bisphenol A dimethacrylate (41637-38-1)	
NOAEL (oral, rat, 90 days)	300 mg/kg bodyweight

Triethylene glycol dimethacrylate (109-16-0)	
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Ecotoxicity

Ecology - general : Avoid release to the environment.

Hazardous to the aquatic environment, short–term (acute) : Not classified

Hazardous to the aquatic environment, long–term (chronic) : Harmful to aquatic life with long lasting effects.

Soil toxicity : Not classified

Terrestrial vertebrate toxicity : Not classified

Terrestrial invertebrate toxicity : Not classified

Urethane dimethacrylate (72869-86-4)	
LC50 - Fish [1]	10.1 mg/l Danio rerio (Zebrafish)
EC50 - Crustacea [1]	> 1.2 mg/l Daphnia magna (Water flea)
NOEC chronic algae	0.21 mg/l Desmodesmus subspicatus
LD50 dermal rat	> 2000 mg/kg
LD50 oral rat	> 5000 mg/kg

2-Hydroxyethyl methacrylate (868-77-9)	
LC50 - Fish [1]	> 100 mg/l Oryzias latipes (Ricefish)
EC50 - Crustacea [1]	380 mg/l Daphnia magna (Water flea)
EC50 72h - Algae [1]	836 mg/l Pseudokirchneriella subcapitata
EC50 72h - Algae [2]	345 mg/l Pseudokirchneriella subcapitata
LOEC (chronic)	49.6 mg/l Daphnia magna (Water flea)
NOEC (chronic)	24.1 mg/l Daphnia magna (Water flea)

2-Hydroxyethyl methacrylate (868-77-9)	
LD50 dermal rabbit	> 5000 mg/kg bodyweight
LD50 oral rat	5564 mg/kg bodyweight

Ethyl 4-dimethylaminobenzoate (10287-53-3)	
LC50 - Fish [1]	1.9 mg/l Oncorhynchus mykiss (Rainbow trout)
EC50 - Crustacea [1]	4.5 mg/l Daphnia magna (Water flea)
ErC50 algae	2.8 mg/l Pseudokirchneriella subcapitata
LD50 dermal rat	> 2000 mg/kg
LD50 oral rat	> 2000 mg/kg

Pyrogenic (Fumed) Amorphous Silica (68909-20-6)	
LC50 - Fish [1]	> 10000 mg/l Brachydanio rerio (zebra-fish)
LD50 dermal rabbit	> 2000 mg/kg
LD50 oral rat	> 5000 mg/kg

Ytterbium Trifluoride (13760-80-0)	
LD50 oral rat	> 2000 mg/kg

Ethoxylated bisphenol A dimethacrylate (41637-38-1)	
LC50 - Fish [1]	> 100 mg/l Oncorhynchus mykiss (Rainbow trout)
EC50 - Crustacea [1]	> 100 mg/l Daphnia magna (Water flea)
ErC50 algae	> 100 mg/l
LD50 dermal rat	> 2000 mg/kg
LD50 oral rat	> 2000 mg/kg

Triethylene glycol dimethacrylate (109-16-0)	
LC50 - Fish [1]	16.4 mg/l Danio rerio (Zebrafish)
EC50 72h - Algae [1]	> 100 mg/l Pseudokirchneriella subcapitata
EC50 72h - Algae [2]	72.8 mg/l Pseudokirchneriella subcapitata
LOEC (chronic)	100 mg/l Daphnia magna (Water flea)
NOEC (chronic)	32 mg/l Daphnia magna (Water flea)
LD50 oral rat	10837 g/kg

12.2. Persistence and degradability

NX3 Nexus Third Generation Dual Cure_Base	
Persistence and degradability	No additional information available.

Urethane dimethacrylate (72869-86-4)	
Persistence and degradability	Not rapidly degradable

2-Hydroxyethyl methacrylate (868-77-9)	
Persistence and degradability	Rapidly degradable

Ethyl 4-dimethylaminobenzoate (10287-53-3)	
Persistence and degradability	Not rapidly degradable

Pyrogenic (Fumed) Amorphous Silica (68909-20-6)	
Persistence and degradability	Rapidly degradable

Ytterbium Trifluoride (13760-80-0)	
Persistence and degradability	Not rapidly degradable

Ethoxylated bisphenol A dimethacrylate (41637-38-1)	
Persistence and degradability	Not rapidly degradable

Triethylene glycol dimethacrylate (109-16-0)	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulative potential

NX3 Nexus Third Generation Dual Cure_Base	
Bioaccumulative potential	No additional information available

12.4. Mobility in soil

NX3 Nexus Third Generation Dual Cure_Base	
Mobility in soil	No additional information available

12.5. Other adverse effects

Ozone : Not classified
Other adverse effects : No additional information available

SECTION 13: Disposal considerations

Waste treatment methods : Dispose in a safe manner in accordance with local/national regulations.
Sewage disposal recommendations : Do not dispose of waste into sewer. Disposal must be done according to official regulations.

SECTION 14: Transport information

In accordance with IMDG / IATA / UN RTDG

IMDG	IATA	UNRTDG
14.1. UN number		
Not regulated for transport		
14.2. UN Proper Shipping Name		
Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)		
Not regulated	Not regulated	Not regulated
14.4. Packing group		
Not regulated	Not regulated	Not regulated
14.5. Environmental hazards		
Not regulated	Not regulated	Not regulated
No supplementary information available		

14.6. Special precautions for user

Transport by road and rail
Not regulated

Transport by sea
Not regulated

Air transport
Not regulated

14.7. Transport in bulk according to IMO instruments

Not applicable

14.8. Hazchem or Emergency Action Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

Hazardous Substances and New Organisms Act
HSNO Approval Number : HSR002558
Group standard : Dental product

2-Hydroxyethyl methacrylate (868-77-9)	
Hazardous Substances and New Organisms Act	
HSNO Approval Number	HSR003005

Ethoxylated bisphenol A dimethacrylate (41637-38-1)	
Hazardous Substances and New Organisms Act	
HSNO Approval Number	HSR007296

Triethylene glycol dimethacrylate (109-16-0)	
Hazardous Substances and New Organisms Act	
HSNO Approval Number	HSR003763

15.2. Chemical safety assessment

Australian Inventory of Industrial Chemicals (AICIS)	Listed (2-Propenoic acid, 2-methyl-, 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl ester; 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester; Ethyl 4-dimethylaminobenzoate; Pyrogenic (Fumed) Amorphous Silica; Ethoxylated bisphenol A dimethacrylate; Triethylene glycol dimethacrylate)

SECTION 16: Other information

Issue date : 3/06/2026

Indication of changes:
New SDS.

Data sources : ECHA (European Chemicals Agency). Supplier's safety documents.

Full text of H-statements	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Aquatic Chronic 4	Hazardous to the aquatic environment – Chronic Hazard, Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Repr. 1	Reproductive toxicity, Category 1

Full text of H-statements	
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H360	May damage fertility or the unborn child
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
H413	May cause long lasting harmful effects to aquatic life

Safety Data Sheet (SDS), New Zealand

The information and recommendations set forth herein are taken from sources believed to be accurate as of the date of preparation, however, KERR Corporation makes no warranty with respect to the accuracy or suitability of the recommendations, and assumes no liability to any use thereof.

NX3 Nexus Third Generation Dual Cure_Catalyst

Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)
Issue date: 3/06/2026

SECTION 1: Identification

1.1 Product identifier

Product name : NX3 Nexus Third Generation Dual Cure_Catalyst
Product form : Mixture

1.2 Other means of identification

No additional information available

1.3 Recommended use of the chemical and restrictions on use

Recommended use : Dental product: Permanent cement
Restrictions on use : For professional use only

1.4 Details of manufacturer or importer

Manufacturer
Kerr Italia, S.r.l.
Via Passanti, 174
Scafati (SA) 84018, Italy
T +39 081 850 3511

Distributor
Kerr Australia Pty Limited
Unit 6, 12 Mars Road
Lane Cove West, NSW 2066
Australia
T 1-800-643-603
queries.anz@kerrdental.com

1.5. Emergency phone number

Emergency number : (Chemical Spills, Leaks, Fire, Exposure or Accident only): CHEMTREC 1-800-424-9300 (in the US), 1-703-527-3887 (Outside the US)

Country/Area	Organisation	Emergency number
New Zealand	National Poisons Centre. PO Box 56 9054 Dunedin.	0800 764 766

SECTION 2: Hazard identification

2.1. Classification of the hazardous chemical

HSNO Approval Number : HSR002558

Classification according to the Environmental Protection Authority notices (EPA Hazardous Substances and New Organisms Act 1996)

Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Skin sensitisation, Category 1	H317
Hazardous to the aquatic environment – Chronic Hazard, Category 3	H412

2.2. GHS Label elements, including precautionary statements

GHS NZ labelling

Hazard pictograms (GHS NZ) :



Signal word (GHS NZ) : Warning
Contains : Urethane dimethacrylate (3-7 %); Triethylene glycol dimethacrylate (3-7 %); 2-Hydroxyethyl methacrylate (1-5 %); 2-(Phosphonooxy)propane-1,3-diylbismethacrylate (1-5 %); Cumene Hydroperoxide (0.1-<1 %); 1,1,3,3-tetramethylbutyl hydroperoxide (0.1-<1 %); Mentha Piperita Oil (0.1-<1 %)

Hazard statements (GHS NZ)	:	H315 - Causes skin irritation H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H412 - Harmful to aquatic life with long lasting effects
Prevention	:	P261 - Avoid breathing dust. P264 - Wash hands thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear eye protection, protective gloves.
Response	:	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention. P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse.
Disposal	:	P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3: Composition and information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to GHS NZ
Ytterbium Trifluoride	CAS-No.: 13760-80-0	10-30	Not classified
Ethoxylated bisphenol A dimethacrylate	CAS-No.: 41637-38-1	7-13	Aquatic Chronic 4, H413
Urethane dimethacrylate	CAS-No.: 72869-86-4	3-7	Skin Sens. 1B, H317 Aquatic Chronic 2, H411
Triethylene glycol dimethacrylate	CAS-No.: 109-16-0	3-7	Skin Sens. 1B, H317
2-Hydroxyethyl methacrylate	CAS-No.: 868-77-9	1-5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Pyrogenic (Fumed) Amorphous Silica	CAS-No.: 68909-20-6	1-5	Not classified
Cumene Hydroperoxide	CAS-No.: 80-15-9	0.1-<1	Flam. Liq. 4, H227 Org. Perox. E, H242 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1B, H314 STOT RE 2, H373 Aquatic Chronic 2, H411 Hazardous to terrestrial vertebrates
1,1,3,3-tetramethylbutyl hydroperoxide	CAS-No.: 5809-08-5	0.1-<1	Flam. Liq. 3, H226 Org. Perox. D, H242 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Inhalation:vapour), H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 2, H411 Hazardous to terrestrial vertebrates

Name	Product identifier	%	Classification according to GHS NZ
Mentha Piperita Oil	CAS-No.: 8006-90-4	0.1-<1	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 2, H411

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures after inhalation : Move the affected person to fresh air. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact : Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Do NOT induce vomiting. Rinse mouth. Get medical advice/attention if you feel unwell.

4.2. Symptoms caused by exposure

Inhalation : May cause minor irritation to the respiratory tract and to other mucous membranes.

Skin : May cause moderate irritation. May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking.

Eyes : Direct contact with the eyes is likely to be irritating. May cause moderate irritation to the eyes.

Ingestion : May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic symptoms : Prolonged absorption of fluorides may result in fluorosis. Symptoms include joint pain, changes in bone density (osteosclerosis), ossification of ligaments, limited mobility, teeth abnormalities and mottling of the dental enamel.

4.3. Medical attention and special treatment

Other medical advice or treatment : Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : None known.

5.2. Specific hazards arising from the chemical

Fire hazard : This product is not classified as flammable or combustible.

Explosion hazard : Intense heat may cause container to burst.

General measures : Do not touch or walk on the spilled product.

Hazardous decomposition products in case of fire : Carbon oxides (CO, CO2). Nitrogen oxides. Phosphorus oxides. Halogenated compounds. Metallic oxides.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Cool down the containers exposed to heat with a water spray. Exercise caution when fighting any chemical fire. Do not allow run-off from firefighting to enter drains or water courses.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Do not touch or walk on the spilled product.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.
Emergency procedures : Avoid contact with eyes, skin and clothing. Avoid breathing dust.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and materials for containment and cleaning up

For containment : Stop leak if safe to do so.
Methods for cleaning up : Absorb and/or contain spill with inert material, then place in suitable container. Avoid dust formation. Wash contaminated area with large amounts of water.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with eyes, skin and clothing. Wear personal protective equipment. Avoid breathing dust. Ensure adequate ventilation.
Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in dry, cool, well-ventilated area. Store in original container. Keep away from heat and direct sunlight. Protect from physical damage. Keep container tightly closed. Store away from incompatible materials.

SECTION 8: Exposure controls and personal protection

8.1. Control parameters - exposure standards

Pyrogenic (Fumed) Amorphous Silica (68909-20-6)	
New Zealand - Occupational Exposure Limits	
Local name	Silica-Amorphous
WES-TWA (OEL TWA)	10 mg/m³
Regulatory reference	Workplace Exposure Standards and Biological Exposure Indices, 14th Edition

Ytterbium Trifluoride (13760-80-0)	
New Zealand - Occupational Exposure Limits	
Local name	Fluorides, as F
WES-TWA (OEL TWA)	2.5 mg/m³
Regulatory reference	Workplace Exposure Standards and Biological Exposure Indices, 14th Edition
New Zealand - Biological Exposure Indices	
Local name	Fluorides
BEI	2 mg/l Parameter: Fluoride - Medium: Urine - Sampling time: Prior to shift 3 mg/l Parameter: Fluoride - Medium: Urine - Sampling time: End of shift

Ytterbium Trifluoride (13760-80-0)	
Remark	– The BEI is not applicable to non-metal fluorides and organic fluoride-containing compounds – As dietary and environmental factors can vary the fluoride body concentrations, repeated measurements are necessary – Biological levels of fluorides are indicators of the potential risk of systemic toxicity and cannot be used for the evaluation of irritative effects
Regulatory reference	Workplace Exposure Standards and Biological Exposure Indices, 14th Edition

Exposure limit values for the other components

No additional information available

8.2. Monitoring methods

No additional information available

8.3. Engineering controls

Appropriate engineering controls : Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

8.4. Individual protection measures, such as personal protective equipment (PPE)

Hand protection : Wear protective gloves. Contact your glove supplier for selection assistance.
Eye protection : Wear safety goggles or other eye protection to prevent eye contact.
Skin and body protection : Wear suitable protective clothing
Respiratory protection : No respiratory protection needed under normal use conditions. In operations where exposure limits are exceeded or exposure levels are excessive, an approved respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

SECTION 9: Physical and chemical properties

Physical state : Paste.
Appearance : Coloured paste.
Colour : Various colours
Odour : Fruity ester-like
Odour threshold : No additional information available
pH : No additional information available
Evaporation rate : No additional information available
Melting point / Freezing point : No additional information available
Boiling point : No data available
Flash point : No data available
Auto-ignition temperature : No data available
Flammability : Not flammable
Vapour pressure : No additional information available
Relative density : No additional information available
Density : Relative density: 2 – 2.5
Solubility : Insoluble in water.
Partition coefficient n-octanol/water (Log Pow) : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Explosive limits : No additional information available
Minimum ignition energy : No data available

SECTION 10: Stability and reactivity

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions : No dangerous reactions known under normal conditions of use. Hazardous polymerization may occur if exposed to high temperature.

Conditions to avoid : Keep away from heat, sparks and flame.

Incompatible materials : Oxidizing agent. Reducing agents. Peroxides. Amines.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Toxicity

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

Urethane dimethacrylate (72869-86-4)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg

2-Hydroxyethyl methacrylate (868-77-9)	
LD50 oral rat	5564 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg bodyweight

Pyrogenic (Fumed) Amorphous Silica (68909-20-6)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

Ytterbium Trifluoride (13760-80-0)	
LD50 oral rat	> 2000 mg/kg

Ethoxylated bisphenol A dimethacrylate (41637-38-1)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg

Triethylene glycol dimethacrylate (109-16-0)	
LD50 oral rat	10837 g/kg

Mentha Piperita Oil (8006-90-4)	
LD50 oral rat	2650 mg/kg
LD50 dermal rabbit	> 5000 mg/kg

1,1,3,3-tetramethylbutyl hydroperoxide (5809-08-5)	
LD50 oral rat	820 mg/kg
LD50 dermal rat	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat (Vapours)	2.85 mg/l/4h

Cumene Hydroperoxide (80-15-9)	
LD50 oral rat	382 mg/kg
LD50 dermal rat	530 mg/kg Source: HSDB
LC50 Inhalation - Rat [ppm]	220 ppm Animal: rat, Animal sex: male, Remarks on results: other:

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified
STOT-repeated exposure : Not classified

Ethoxylated bisphenol A dimethacrylate (41637-38-1)	
NOAEL (oral, rat, 90 days)	300 mg/kg bodyweight

Triethylene glycol dimethacrylate (109-16-0)	
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight

Cumene Hydroperoxide (80-15-9)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Ecotoxicity

Ecology - general : Avoid release to the environment.
Hazardous to the aquatic environment, short–term (acute) : Not classified.
Hazardous to the aquatic environment, long–term (chronic) : Harmful to aquatic life with long lasting effects.
Soil toxicity : Not classified
Terrestrial vertebrate toxicity : Not classified
Terrestrial invertebrate toxicity : Not classified

Urethane dimethacrylate (72869-86-4)	
LC50 - Fish [1]	10.1 mg/l Danio rerio (Zebrafish)
EC50 - Crustacea [1]	> 1.2 mg/l Daphnia magna (Water flea)
NOEC chronic algae	0.21 mg/l Desmodesmus subspicatus
LD50 dermal rat	> 2000 mg/kg
LD50 oral rat	> 5000 mg/kg

2-Hydroxyethyl methacrylate (868-77-9)	
LC50 - Fish [1]	> 100 mg/l Oryzias latipes (Ricefish)
EC50 - Crustacea [1]	380 mg/l Daphnia magna (Water flea)
EC50 72h - Algae [1]	836 mg/l Pseudokirchneriella subcapitata
EC50 72h - Algae [2]	345 mg/l Pseudokirchneriella subcapitata
LOEC (chronic)	49.6 mg/l Daphnia magna (Water flea)
NOEC (chronic)	24.1 mg/l Daphnia magna (Water flea)
LD50 dermal rabbit	> 5000 mg/kg bodyweight
LD50 oral rat	5564 mg/kg bodyweight

Pyrogenic (Fumed) Amorphous Silica (68909-20-6)	
LC50 - Fish [1]	> 10000 mg/l Brachydanio rerio (zebra-fish)
LD50 dermal rabbit	> 2000 mg/kg
LD50 oral rat	> 5000 mg/kg

Ytterbium Trifluoride (13760-80-0)	
LD50 oral rat	> 2000 mg/kg

Ethoxylated bisphenol A dimethacrylate (41637-38-1)	
LC50 - Fish [1]	> 100 mg/l Oncorhynchus mykiss (Rainbow trout)

Ethoxylated bisphenol A dimethacrylate (41637-38-1)	
EC50 - Crustacea [1]	> 100 mg/l Daphnia magna (Water flea)
ErC50 algae	> 100 mg/l
LD50 dermal rat	> 2000 mg/kg
LD50 oral rat	> 2000 mg/kg

Triethylene glycol dimethacrylate (109-16-0)	
LC50 - Fish [1]	16.4 mg/l Danio rerio (Zebrafish)
EC50 72h - Algae [1]	> 100 mg/l Pseudokirchneriella subcapitata
EC50 72h - Algae [2]	72.8 mg/l Pseudokirchneriella subcapitata
LOEC (chronic)	100 mg/l Daphnia magna (Water flea)
NOEC (chronic)	32 mg/l Daphnia magna (Water flea)
LD50 oral rat	10837 g/kg

Mentha Piperita Oil (8006-90-4)	
LC50 - Fish [1]	3.4 mg/l
EC50 - Crustacea [1]	2.7 mg/l
EC50 72h - Algae [1]	2.61 mg/l
Partition coefficient n-octanol/water (Log Pow)	4.38
LD50 dermal rabbit	> 5000 mg/kg
LD50 oral rat	2650 mg/kg

1,1,3,3-tetramethylbutyl hydroperoxide (5809-08-5)	
LC50 - Fish [1]	56.9 mg/l Poecilia reticulata (Guppy)
LC50 - Fish [2]	11.3 mg/l Danio rerio (Zebrafish)
EC50 - Crustacea [1]	6.7 mg/l Daphnia magna (Water flea)
EC50 72h - Algae [1]	5.6 mg/l Raphidocelis subcapitata
NOEC chronic crustacea	0.66 mg/l Daphnia magna (Water flea)
Partition coefficient n-octanol/water (Log Kow)	2.9
LD50 dermal rat	> 2000 mg/kg bodyweight
LD50 oral rat	820 mg/kg

Cumene Hydroperoxide (80-15-9)	
LC50 - Fish [1]	3.9 mg/l Oncorhynchus mykiss (Rainbow trout)
EC50 - Crustacea [1]	18.84 mg/l Daphnia magna (Water flea)
ErC50 algae	3.1 mg/l Desmodesmus subspicatus
NOEC chronic fish	6.69 mg/l Danio rerio (Zebrafish)
NOEC chronic crustacea	8.6 mg/l Daphnia magna (Water flea)
Partition coefficient n-octanol/water (Log Pow)	2.16
LD50 dermal rat	530 mg/kg Source: HSDB
LD50 oral rat	382 mg/kg

12.2. Persistence and degradability

NX3 Nexus Third Generation Dual Cure_Catalyst	
Persistence and degradability	No additional information available.

Urethane dimethacrylate (72869-86-4)	
Persistence and degradability	Not rapidly degradable

2-Hydroxyethyl methacrylate (868-77-9)	
Persistence and degradability	Rapidly degradable

Pyrogenic (Fumed) Amorphous Silica (68909-20-6)	
Persistence and degradability	Rapidly degradable

Ytterbium Trifluoride (13760-80-0)	
Persistence and degradability	Not rapidly degradable

Ethoxylated bisphenol A dimethacrylate (41637-38-1)	
Persistence and degradability	Not rapidly degradable

Triethylene glycol dimethacrylate (109-16-0)	
Persistence and degradability	Rapidly degradable

Mentha Piperita Oil (8006-90-4)	
Persistence and degradability	Readily biodegradable.

1,1,3,3-tetramethylbutyl hydroperoxide (5809-08-5)	
Persistence and degradability	Inherently biodegradable.

Cumene Hydroperoxide (80-15-9)	
Persistence and degradability	Not rapidly degradable

12.3. Bioaccumulative potential

NX3 Nexus Third Generation Dual Cure_Catalyst	
Bioaccumulative potential	No additional information available

Mentha Piperita Oil (8006-90-4)	
Partition coefficient n-octanol/water (Log Pow)	4.38

1,1,3,3-tetramethylbutyl hydroperoxide (5809-08-5)	
Partition coefficient n-octanol/water (Log Kow)	2.9

Cumene Hydroperoxide (80-15-9)	
Partition coefficient n-octanol/water (Log Pow)	2.16

12.4. Mobility in soil

NX3 Nexus Third Generation Dual Cure_Catalyst	
Mobility in soil	No additional information available

Mentha Piperita Oil (8006-90-4)	
Partition coefficient n-octanol/water (Log Pow)	4.38

1,1,3,3-tetramethylbutyl hydroperoxide (5809-08-5)	
Mobility in soil	263.7 Source: EPISUITE
Partition coefficient n-octanol/water (Log Kow)	2.9

Cumene Hydroperoxide (80-15-9)	
Partition coefficient n-octanol/water (Log Pow)	2.16

12.5. Other adverse effects

Ozone : Not classified
Other adverse effects : No additional information available

SECTION 13: Disposal considerations

Waste treatment methods : Dispose in a safe manner in accordance with local/national regulations.
Sewage disposal recommendations : Do not dispose of waste into sewer. Disposal must be done according to official regulations.

SECTION 14: Transport information

In accordance with IMDG / IATA / UN RTDG

IMDG	IATA	UNRTDG
14.1. UN number		
Not regulated for transport		
14.2. UN Proper Shipping Name		
Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)		
Not regulated	Not regulated	Not regulated
14.4. Packing group		
Not regulated	Not regulated	Not regulated
14.5. Environmental hazards		
Not regulated	Not regulated	Not regulated
No supplementary information available		

14.6. Special precautions for user

Transport by road and rail
Not regulated

Transport by sea
Not regulated

Air transport
Not regulated

14.7. Transport in bulk according to IMO instruments

Not applicable

14.8. Hazchem or Emergency Action Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

Hazardous Substances and New Organisms Act
HSNO Approval Number : HSR002558
Group standard : Dental product

2-Hydroxyethyl methacrylate (868-77-9)	
Hazardous Substances and New Organisms Act	
HSNO Approval Number	HSR003005

Ethoxylated bisphenol A dimethacrylate (41637-38-1)	
Hazardous Substances and New Organisms Act	
HSNO Approval Number	HSR007296

Triethylene glycol dimethacrylate (109-16-0)	
Hazardous Substances and New Organisms Act	
HSNO Approval Number	HSR003763

Mentha Piperita Oil (8006-90-4)	
Hazardous Substances and New Organisms Act	
HSNO Approval Number	HSR003779

α, α-dimethylbenzyl hydroperoxide; cumene hydroperoxide (80-15-9)	
Hazardous Substances and New Organisms Act	
HSNO Approval Number	HSR001368

15.2. Chemical safety assessment

Australian Inventory of Industrial Chemicals (AICIS)	Listed (2-Propenoic acid, 2-methyl-, 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl ester; 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester; Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysisproducts with silica; Ethoxylated bisphenol A dimethacrylate; Triethylene glycol dimethacrylate; Mentha Piperita Oil; Cumene Hydroperoxide)

SECTION 16: Other information

Issue date : 3/06/2026

Indication of changes:
New SDS.

Data sources : ECHA (European Chemicals Agency). Supplier's safety documents.

Full text of H-statements	
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Aquatic Chronic 4	Hazardous to the aquatic environment – Chronic Hazard, Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2

Full text of H-statements	
Flam. Liq. 3	Flammable liquids, Category 3
Flam. Liq. 4	Flammable liquids, Category 4
Org. Perox. D	Organic Peroxides, Type D
Org. Perox. E	Organic Peroxides, Type E
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
H226	Flammable liquid and vapour
H227	Combustible liquid
H242	Heating may cause a fire
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H331	Toxic if inhaled
H373	May cause damage to organs through prolonged or repeated exposure
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
H413	May cause long lasting harmful effects to aquatic life

Safety Data Sheet (SDS), New Zealand

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