Safety Data Sheet

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Issue Date:	24/09/2025	**Supersedes date:**	Initial issue.

This Safety Data Sheet has been prepared in accordance with the New Zealand, Hazardous Substances (Safety Data Sheets) Notice 2017.

IDENTIFICATION:

1.1. Product identifier
DP810NS KIT

Product Identification Numbers
UU-0140-2195-8 UU-0140-4059-4

7100387125 7100387555

1.2. Recommended use and restrictions on use

Recommended use
Adhesive

1.3. Supplier's details

Address:	3M New Zealand Ltd, 94 Apollo Drive, Rosedale 0632, Auckland
Telephone:	(09) 477 4040
E Mail:	innovation@nz.mmm.com
Website:	3m.co.nz

1.4. Emergency telephone number
24 hr Medical Emergency, National Poisons Centre, 0800 764 766 (0800 POISON)

This product is a kit or a multipart product which consists of multiple, independently packaged components. A Safety Data Sheet for each of these components is included. Please do not separate the component Safety Data Sheets from this cover page. The document numbers of the SDSs for components of this product are:

45-6292-2, 45-5052-1

One or more components of this KIT is classified as a hazardous substance in accordance with the relevant criteria of the HSNO Act 1996 and the Hazardous Substances (Hazard Classification) Notice 2020.

TRANSPORT INFORMATION

The Components of this KIT have various Dangerous Goods Transportation Classifications. Please refer to the attached component Safety Data Sheets for individual Transportation Classifications.

Revision information:
Initial issue.

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Safety Data Sheet

Document group:	45-5052-1	**Version number:**	1.00
Issue Date:	22/09/2025	**Supersedes date:**	Initial issue.

This Safety Data Sheet has been prepared in accordance with the New Zealand, Hazardous Substances (Safety Data Sheets) Notice 2017.

SECTION 1: Identification

1.1. Product identifier
DP810NS Part B

1.2. Recommended use and restrictions on use

Recommended use
Adhesive

For Industrial or Professional use only

1.3. Supplier's details

Address:	3M New Zealand Ltd, 94 Apollo Drive, Rosedale 0632, Auckland
Telephone:	(09) 477 4040
E Mail:	innovation@nz.mmm.com
Website:	3m.co.nz

1.4. Emergency telephone number
24 hr Medical Emergency, National Poisons Centre, 0800 764 766 (0800 POISON)

SECTION 2: Hazard identification

Classified as hazardous in accordance with the relevant criteria of the HSNO Act 1996 and the Hazardous Substances (Hazard Classification) Notice 2020.
Refer to Section 14 of this Safety Data Sheet for product Dangerous Goods Classification.

2.1. Classification of the substance or mixture
Skin irritation: Category 2
Serious eye damage: Category 1
Skin sensitisation: Category 1
Reproductive Toxicity: Category 2
Hazardous to the aquatic environment chronic: Category 2

2.2. Label elements
SIGNAL WORD
Danger

Symbols:
Corrosion |Exclamation mark |Health Hazard |Environment |

Pictograms

HAZARD STATEMENTS:

H315	Causes skin irritation.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.
H361	Suspected of damaging fertility or the unborn child.
H411	Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

Prevention

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash exposed skin thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280B	Wear protective gloves and eye/face protection.

Response

P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
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 CENTER or doctor/physician.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.

Storage

P405	Store locked up.

Disposal

P501	Dispose of contents/container via an approved hazardous waste disposal contractor.

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	% by Weight
2-Hydroxypropyl Methacrylate	868-77-9	20 - 30
Phenoxyethyl Methacrylate	10595-06-9	20 - 30
Hydroxypropyl Methacrylate	27813-02-1	10 - 20
Methyl Methacrylate- Butadiene-Styrene	25101-28-4	10 - 20
Acrylonitrile-Butadiene Polymer	9010-81-5	<= 10
Bisphenol A Polyethylene Glycol Diether Dimethacrylate (polymer)	41637-38-1	<= 10
Modified Silica	68611-44-9	<= 5
2-Hydroxypropyl Methacrylate Phosphate	52628-03-2	<= 3

Phenothiazine	92-84-2	< 1

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation
Remove person to fresh air. If you feel unwell, get medical attention.

Skin contact
Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eye contact
Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.
A product risk assessment is recommended to determine if eye wash facilities may be required when using this product in the workplace.

If swallowed
Rinse mouth. If you feel unwell, get medical attention.

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

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 ordinary combustible material such as water or foam 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	Condition
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.
Irritant vapours or gases.	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.

5.4. Hazchem code: 3Z

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. Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS.

6.2. Environmental precautions
Avoid release to the environment. For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up
Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

Refer to Section 15 - Controls for more information

7.1. Precautions for safe handling
Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Keep away from reactive metals (eg. Aluminum, zinc etc.) to avoid the formation of hydrogen gas that could create an explosion hazard. Use personal protective equipment (eg. gloves, respirators…) as required.

7.2. Conditions for safe storage including any incompatibilities
Store away from heat. Store away from acids. Store away from oxidising agents. Store away from amines.

7.3. Certified handler
Not required

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
Phenothiazine	92-84-2	ACGIH	TWA(inhalable fraction):0.5 mg/m3	A4: Not class. as human carcinogen, SKIN; Dermal sensitiser
Phenothiazine	92-84-2	New Zealand WES	TWA(8 hours):5 mg/m3	

ACGIH : American Conference of Governmental Industrial Hygienists
AIHA : American Industrial Hygiene Association
CMRG : Chemical Manufacturer's Recommended Guidelines
New Zealand WES : New Zealand Workplace Exposure Standards.
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
ppm: parts per million
mg/m^3: milligrams per cubic metre
CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls
Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:
Full face shield.
Indirect vented goggles.

Refer AS/NZS 1336 - Recommended practices for occupational eye protection and for performance specifications AS/NZS 1337, Parts 1 - 6 - Personal eye-protection.

Skin/hand protection
Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

Gloves made from the following material(s) are recommended: Polymer laminate

If this product is used in a manner that presents a higher potential for exposure (e.g., spraying, high splash potential, etc.), then use of a protective apron may be necessary. See recommended glove material(s) for determining appropriate apron material(s). If a glove material is not available as an apron, polymer laminate is a suitable option.

Select and use gloves according to AS/NZ 2161.

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:
Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates

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

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Specific Physical Form:	Paste
Colour	Green
Odour	Methacrylate
Odour threshold	*No data available.*
pH	*No data available.*
Melting point/Freezing point	*No data available.*
Boiling point/Initial boiling point/Boiling range	87 ºC
Flash point	>=93.3 ºC [*Details:*Closed cup]
Evaporation rate	*No data available.*
Flammability	Not applicable.
Flammable Limits(LEL)	*No data available.*
Flammable Limits(UEL)	*No data available.*
Vapour pressure	<=13.3 Pa
Relative Vapour Density	*No data available.*
Density	*No data available.*
Relative density	1.07
Water solubility	*No data available.*
Solubility- non-water	*No data available.*
Partition coefficient: n-octanol/water	*No data available.*
Autoignition temperature	*No data available.*
Decomposition temperature	*No data available.*
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.*

Particle Characteristics	*Not applicable.*

SECTION 10: Stability and reactivity

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

10.2 Chemical stability
Stable.

10.3 Possibility of hazardous reactions
Hazardous polymerisation will not occur.

10.4 Conditions to avoid
Heat.
Heat is generated during cure. Do not cure a mass larger than 50 grams in a confined space to prevent a premature exothermic reaction with production of intense heat and smoke.
Sparks and/or flames.

10.5 Incompatible materials
Amines.
Reactive metals

Reducing agents.

10.6 Hazardous decomposition products

Substance	Condition
None known.	

Refer to Section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1 Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation
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.
Photosensitisation: Signs/symptoms may include a sunburn-like reaction such as blistering, redness, swelling, and itching from minor exposure to sunlight.

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

Additional Health Effects:

Reproductive/Developmental Toxicity:
Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

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	Ingestion		No data available; calculated ATE >5,000 mg/kg
2-Hydroxypropyl Methacrylate	Dermal	Rabbit	LD50 > 5,000 mg/kg
2-Hydroxypropyl Methacrylate	Ingestion	Rat	LD50 5,564 mg/kg
Phenoxyethyl Methacrylate	Dermal	similar	LD50 > 2,000 mg/kg

		compounds	
Phenoxyethyl Methacrylate	Ingestion	similar compounds	LD50 > 5,000 mg/kg
Methyl Methacrylate- Butadiene-Styrene	Dermal		LD50 estimated to be > 5,000 mg/kg
Hydroxypropyl Methacrylate	Dermal	Rabbit	LD50 > 5,000 mg/kg
Hydroxypropyl Methacrylate	Ingestion	Rat	LD50 > 11,200 mg/kg
Methyl Methacrylate- Butadiene-Styrene	Ingestion	Rat	LD50 > 5,000 mg/kg
Acrylonitrile-Butadiene Polymer	Dermal		LD50 estimated to be > 5,000 mg/kg
Acrylonitrile-Butadiene Polymer	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
Bisphenol A Polyethylene Glycol Diether Dimethacrylate (polymer)	Dermal	Rat	LD50 > 2,000 mg/kg
Bisphenol A Polyethylene Glycol Diether Dimethacrylate (polymer)	Ingestion	Rat	LD50 > 35,000 mg/kg
Modified Silica	Dermal	Rabbit	LD50 > 5,000 mg/kg
Modified Silica	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
Modified Silica	Ingestion	Rat	LD50 > 5,110 mg/kg
2-Hydroxypropyl Methacrylate Phosphate	Ingestion	Rat	LD50 > 2,000 mg/kg
Phenothiazine	Dermal	Rat	LD50 > 2,000 mg/kg
Phenothiazine	Ingestion	Rat	LD50 1,370 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
2-Hydroxypropyl Methacrylate	Rabbit	Minimal irritation
Phenoxyethyl Methacrylate	similar compounds	No significant irritation
Hydroxypropyl Methacrylate	Rabbit	Minimal irritation
Acrylonitrile-Butadiene Polymer	Professional judgement	No significant irritation
Bisphenol A Polyethylene Glycol Diether Dimethacrylate (polymer)	Rabbit	Minimal irritation
Modified Silica	Rabbit	No significant irritation
2-Hydroxypropyl Methacrylate Phosphate	Rabbit	Corrosive
Phenothiazine	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
2-Hydroxypropyl Methacrylate	Rabbit	Moderate irritant
Phenoxyethyl Methacrylate	similar compounds	No significant irritation
Hydroxypropyl Methacrylate	Rabbit	Moderate irritant
Acrylonitrile-Butadiene Polymer	Professional judgement	No significant irritation
Bisphenol A Polyethylene Glycol Diether Dimethacrylate (polymer)	Rabbit	No significant irritation
Modified Silica	Rabbit	No significant irritation
2-Hydroxypropyl Methacrylate Phosphate	similar health hazards	Corrosive
Phenothiazine	Rabbit	Mild irritant

Sensitisation:

Skin Sensitisation

Name	Species	Value
2-Hydroxypropyl Methacrylate	Human and animal	Sensitising
Phenoxyethyl Methacrylate	similar compounds	Sensitising
Hydroxypropyl Methacrylate	Human and animal	Sensitising
Bisphenol A Polyethylene Glycol Diether Dimethacrylate (polymer)	Guinea pig	Not classified
Modified Silica	Human and animal	Not classified
2-Hydroxypropyl Methacrylate Phosphate	Mouse	Sensitising
Phenothiazine	Guinea pig	Sensitising

Photosensitisation

Name	Species	Value
Phenothiazine	Human	Sensitising

Respiratory Sensitisation

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

Germ Cell Mutagenicity

Name	Route	Value
2-Hydroxypropyl Methacrylate	In vivo	Not mutagenic
2-Hydroxypropyl Methacrylate	In Vitro	Some positive data exist, but the data are not sufficient for classification
Phenoxyethyl Methacrylate	In Vitro	Not mutagenic
Hydroxypropyl Methacrylate	In vivo	Not mutagenic
Hydroxypropyl Methacrylate	In Vitro	Some positive data exist, but the data are not sufficient for classification
Bisphenol A Polyethylene Glycol Diether Dimethacrylate (polymer)	In Vitro	Not mutagenic
Modified Silica	In Vitro	Not mutagenic
2-Hydroxypropyl Methacrylate Phosphate	In Vitro	Not mutagenic
Phenothiazine	In Vitro	Not mutagenic
Phenothiazine	In vivo	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Modified Silica	Not specified.	Mouse	Some positive data exist, but the data are not sufficient for classification

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
2-Hydroxypropyl Methacrylate	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
2-Hydroxypropyl Methacrylate	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	49 days

2-Hydroxypropyl Methacrylate	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
Phenoxyethyl Methacrylate	Ingestion	Toxic to female reproduction	similar compounds	NOAEL 300 mg/kg/day	premating into lactation
Phenoxyethyl Methacrylate	Ingestion	Toxic to development	similar compounds	NOAEL 300 mg/kg/day	premating into lactation
Hydroxypropyl Methacrylate	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
Hydroxypropyl Methacrylate	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	49 days
Hydroxypropyl Methacrylate	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	during gestation
Modified Silica	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Modified Silica	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Modified Silica	Ingestion	Not classified for development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis
2-Hydroxypropyl Methacrylate Phosphate	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	during gestation
Phenothiazine	Ingestion	Not classified for development	Rat	NOAEL 150 mg/kg/day	during organogenesis

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Hydroxypropyl Methacrylate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
2-Hydroxypropyl Methacrylate Phosphate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Hydroxypropyl Methacrylate	Inhalation	blood	Not classified	Rat	NOAEL 0.5 mg/l	21 days
Hydroxypropyl Methacrylate	Ingestion	hematopoietic system | heart | endocrine system | liver | immune system | nervous system | kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	41 days
Modified Silica	Inhalation	respiratory system | silicosis	Not classified	Human	NOAEL Not available	occupational exposure
2-Hydroxypropyl Methacrylate Phosphate	Ingestion	hematopoietic system | kidney and/or bladder | heart | liver | immune system | eyes	Not classified	Rat	NOAEL 300 mg/kg/day	90 days
Phenothiazine	Ingestion	hematopoietic system	May cause damage to organs though prolonged or repeated exposure	Dog	NOAEL 18 mg/kg/day	13 weeks

Phenothiazine	Ingestion	heart | endocrine system | liver | kidney and/or bladder | respiratory system	Not classified	Dog	NOAEL 67 mg/kg/day	13 weeks

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

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

SECTION 12: Ecological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity
Ecotoxic to the aquatic environment.
Acute Aquatic Toxicity: Category 2
Chronic Aquatic Toxicity: Category 2

No product test data available.

Material	CAS Number	Organism	Type	Exposure	Test endpoint	Test result
2-Hydroxypropyl Methacrylate	868-77-9	Turbot	Analogous Compound	96 hours	LC50	833 mg/l
2-Hydroxypropyl Methacrylate	868-77-9	Fathead minnow	Experimental	96 hours	LC50	227 mg/l
2-Hydroxypropyl Methacrylate	868-77-9	Green algae	Experimental	72 hours	EC50	710 mg/l
2-Hydroxypropyl Methacrylate	868-77-9	Water flea	Experimental	48 hours	EC50	380 mg/l
2-Hydroxypropyl Methacrylate	868-77-9	Green algae	Experimental	72 hours	NOEC	160 mg/l
2-Hydroxypropyl Methacrylate	868-77-9	Water flea	Experimental	21 days	NOEC	24.1 mg/l
2-Hydroxypropyl Methacrylate	868-77-9	N/A	Experimental	16 hours	EC0	>3,000 mg/l
2-Hydroxypropyl Methacrylate	868-77-9	N/A	Experimental	18 hours	LD50	<98 mg per kg of bodyweight
Phenoxyethyl Methacrylate	10595-06-9	Activated sludge	Analogous Compound	3 hours	EC50	177 mg/l
Phenoxyethyl Methacrylate	10595-06-9	Golden Orfe	Analogous Compound	96 hours	LC50	10 mg/l

Phenoxyethyl Methacrylate	10595-06-9	Green algae	Analogous Compound	96 hours	ErC50	4.4 mg/l
Phenoxyethyl Methacrylate	10595-06-9	Water flea	Analogous Compound	48 hours	EC50	1.21 mg/l
Phenoxyethyl Methacrylate	10595-06-9	Green algae	Analogous Compound	96 hours	ErC10	0.74 mg/l
Hydroxypropyl Methacrylate	27813-02-1	Bacteria	Experimental	N/A	EC10	1,140 mg/l
Hydroxypropyl Methacrylate	27813-02-1	Golden Orfe	Experimental	48 hours	EC50	493 mg/l
Hydroxypropyl Methacrylate	27813-02-1	Green algae	Experimental	72 hours	ErC50	>97.2 mg/l
Hydroxypropyl Methacrylate	27813-02-1	Water flea	Experimental	48 hours	EC50	>143 mg/l
Hydroxypropyl Methacrylate	27813-02-1	Green algae	Experimental	72 hours	NOEC	97.2 mg/l
Hydroxypropyl Methacrylate	27813-02-1	Water flea	Experimental	21 days	NOEC	45.2 mg/l
Methyl Methacrylate-Butadiene-Styrene	25101-28-4	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Acrylonitrile-Butadiene Polymer	9010-81-5	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Bisphenol A Polyethylene Glycol Diether Dimethacrylate (polymer)	41637-38-1	Activated sludge	Estimated	3 hours	EC50	>1,000 mg/l
Bisphenol A Polyethylene Glycol Diether Dimethacrylate (polymer)	41637-38-1	Green algae	Estimated	72 hours	EL50	>100 mg/l
Bisphenol A Polyethylene Glycol Diether Dimethacrylate (polymer)	41637-38-1	Water flea	Estimated	48 hours	EL50	>100 mg/l
Bisphenol A Polyethylene Glycol Diether Dimethacrylate (polymer)	41637-38-1	Zebra Fish	Estimated	96 hours	LL50	>100 mg/l
Modified Silica	68611-44-9	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
2-Hydroxypropyl Methacrylate Phosphate	52628-03-2	Green algae	Experimental	72 hours	EC50	>120 mg/l
2-	52628-03-2	Rainbow trout	Experimental	96 hours	LC50	>112 mg/l

Hydroxypropyl Methacrylate Phosphate						
2-Hydroxypropyl Methacrylate Phosphate	52628-03-2	Water flea	Experimental	48 hours	EC50	68 mg/l
2-Hydroxypropyl Methacrylate Phosphate	52628-03-2	Green algae	Experimental	72 hours	NOEC	30 mg/l
Phenothiazine	92-84-2	Activated sludge	Experimental	3 hours	IC50	>100 mg/l
Phenothiazine	92-84-2	Ciliated protozoa	Experimental	48 hours	IC50	8 mg/l
Phenothiazine	92-84-2	Green algae	Experimental	72 hours	ErC50	>100 mg/l
Phenothiazine	92-84-2	Rainbow trout	Experimental	96 hours	LC50	0.597 mg/l
Phenothiazine	92-84-2	Water flea	Experimental	48 hours	EC50	0.154 mg/l

12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
2-Hydroxypropyl Methacrylate	868-77-9	Experimental Biodegradation	28 days	BOD	84 %BOD/COD	OECD 301D - Closed bottle test
2-Hydroxypropyl Methacrylate	868-77-9	Experimental Hydrolysis		Hydrolytic half-life basic pH	10.9 days (t 1/2)	OECD 111 Hydrolysis func of pH
Phenoxyethyl Methacrylate	10595-06-9	Analogous Compound Biodegradation	28 days	BOD	22.3 %BOD/ThOD	OECD 301D - Closed bottle test
Phenoxyethyl Methacrylate	10595-06-9	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	1 years (t 1/2)	OECD 111 Hydrolysis func of pH
Hydroxypropyl Methacrylate	27813-02-1	Experimental Biodegradation	28 days	BOD	81 %BOD/ThOD	OECD 301C - MITI test (I)
Methyl Methacrylate-Butadiene-Styrene	25101-28-4	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Acrylonitrile-Butadiene Polymer	9010-81-5	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Bisphenol A Polyethylene Glycol Diether Dimethacrylate (polymer)	41637-38-1	Experimental Biodegradation	28 days	Percent degraded	24 % degraded	
Modified Silica	68611-44-9	Data not availbl-insufficient	N/A	N/A	N/A	N/A
2-Hydroxypropyl Methacrylate Phosphate	52628-03-2	Experimental Biodegradation	28 days	BOD	93.1 %BOD/ThOD	OECD 301F - Manometric respirometry

Phenothiazine	92-84-2	Experimental Biodegradation	28 days	BOD	0 %BOD/ThOD	OECD 301D - Closed bottle test

12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
2-Hydroxypropyl Methacrylate	868-77-9	Experimental Bioconcentration		Log Kow	0.42	OECD 107 log Kow shke flsk mtd
Phenoxyethyl Methacrylate	10595-06-9	Modeled Bioconcentration		Bioaccumulation factor	5.8	Catalogic™
Phenoxyethyl Methacrylate	10595-06-9	Experimental Bioconcentration		Log Kow	3.137	OECD 117 log Kow HPLC method
Hydroxypropyl Methacrylate	27813-02-1	Experimental Bioconcentration		Log Kow	0.97	EC A.8 Partition Coefficient
Methyl Methacrylate-Butadiene-Styrene	25101-28-4	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Acrylonitrile-Butadiene Polymer	9010-81-5	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Bisphenol A Polyethylene Glycol Diether Dimethacrylate (polymer)	41637-38-1	Estimated Bioconcentration		Bioaccumulation factor	6.6	
Modified Silica	68611-44-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
2-Hydroxypropyl Methacrylate Phosphate	52628-03-2	Experimental Bioconcentration		Log Kow	1 - 2.72	OECD 117 log Kow HPLC method
Phenothiazine	92-84-2	Experimental BCF - Fish	56 days	Bioaccumulation factor	660	
Phenothiazine	92-84-2	Experimental Bioconcentration		Log Kow	3.78	OECD 117 log Kow HPLC method

12.4. Mobility in soil
Please contact manufacturer for more details

12.5 Other adverse effects
No information available.

SECTION 13: Disposal considerations

13.1. Disposal methods

In accordance with the Hazardous Substances (Disposal) Notice 2017 and the relevant criteria of the HSNO Act 1996.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

Packaging (that may or may not contain any residual substance) may be lawfully disposed of by householders or other consumers through public or commercial waste collection services.

SECTION 14: Transport Information

New Zealand Land Transport Rule: Dangerous Goods - Road/Rail Transport
UN No.: UN3082
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. , (Acrylate oligomer)
Class/Division: 9
Sub Risk: Not applicable.
Packing Group: III

Hazchem Code: 3Z
IERG: 47

International Air Transport Association (IATA) - Air Transport
UN No.: UN3082
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. , (Acrylate oligomer)
Class/Division: 9
Sub Risk: Not applicable.
Packing Group: III
Special Instructions: Not restricted, as per Special Provision A197, environmentally hazardous substance exception.

International Maritime Dangerous Goods Code (IMDG) - Marine Transport
UN No.: UN3082
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. , (Acrylate oligomer)
Class/Division: 9
Sub Risk: Not applicable.
Packing Group: III
Marine Pollutant: Not applicable.
Special Instructions: Not restricted, as per IMDG code 2.10.2.7, marine pollutant exception.

SECTION 15: Regulatory information

HSNO Approval number	HSR002670
Group standard name	Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2020
HSNO Hazard classification	Refer to Section 2: Hazard identification

NZ Inventory of Chemicals (NZIoC) Status
All applicable chemical ingredients in this material are in compliance with NZIoC listing requirements.

Controls in accordance with The Health and Safety at Work Act 2015, Health and Safety at Work (Hazardous Substances) Regulations 2017 and the HSNO Act 1996, Hazardous Substances (Hazardous Property Controls) Notice 2017

Certified handler	Not required
Location Compliance Certificate	Not required

Hazardous atmosphere zone	Not required
Fire extinguishers	Not required
Emergency response plan	100 L or 100 kg (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L or 1 000 kg (for Acute toxicity Category 4, Skin sensitisation Category 1, Respiratory sensitisation Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L or 10 000 kg (for Germ cell mutagenicity Category 1, Reproductive toxicity Category 1, Specific target organ toxicity Category 1, Serious eye damage Category 1, Hazardous to the aquatic environment Category 4 substances)
Secondary containment	100 L or 100 kg (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L or 1 000 kg (for Acute toxicity Category 4, Skin sensitisation Category 1, Respiratory sensitisation Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L or 10 000 kg (for Germ cell mutagenicity Category 1, Reproductive toxicity Category 1, Specific target organ toxicity Category 1, Serious eye damage Category 1, Hazardous to the aquatic environment Category 4 substances)
Tracking	Not required
Warning signage	100 L or 100 kg (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L or 1 000 kg (for Serious eye damage Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L or 10 000 kg (for Acute toxicity Category 4 or Hazardous to the aquatic environment Category 4 substances)

SECTION 16: Other information

Revision information:
Initial issue.

Document group:	45-5052-1	**Version number:**	1.00
Issue Date:	22/09/2025	**Supersedes date:**	Initial issue.

Key to abbreviations and acronyms
GHS refers to the Globally Harmonised System of Classification and Labelling of Chemicals, 7th revised edition of 2017
HSNO means Hazardous Substances and New Organisms Act 1996

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Safety Data Sheet

Document group:	45-6292-2	**Version number:**	1.01
Issue Date:	29/03/2026	**Supersedes date:**	24/09/2025

This Safety Data Sheet has been prepared in accordance with the New Zealand, Hazardous Substances (Safety Data Sheets) Notice 2017.

SECTION 1: Identification

1.1. Product identifier
810NS Part A

1.2. Recommended use and restrictions on use

Recommended use
Adhesive

For Industrial or Professional use only

1.3. Supplier's details

Address:	3M New Zealand Ltd, 94 Apollo Drive, Rosedale 0632, Auckland
Telephone:	(09) 477 4040
E Mail:	innovation@nz.mmm.com
Website:	3m.co.nz

1.4. Emergency telephone number
24 hr Medical Emergency, National Poisons Centre, 0800 764 766 (0800 POISON)

SECTION 2: Hazard identification

Classified as hazardous in accordance with the relevant criteria of the HSNO Act 1996 and the Hazardous Substances (Hazard Classification) Notice 2020.
Refer to Section 14 of this Safety Data Sheet for product Dangerous Goods Classification.

2.1. Classification of the substance or mixture
Acute oral toxicity: Category 4
Acute dermal toxicity: Category 4
Acute inhalation toxicity: Category 4
Skin irritation: Category 2
Serious eye damage: Category 1
Skin sensitisation: Category 1
Carcinogenicity: Category 1
Reproductive Toxicity: Category 1
Specific target organ toxicity – repeated exposure: Category 2
Hazardous to the aquatic environment chronic: Category 2

2.2. Label elements
SIGNAL WORD
Danger

Symbols:
Corrosion |Exclamation mark |Health Hazard |Environment |

Pictograms

HAZARD STATEMENTS:

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.
H350	May cause cancer.
H360	May damage fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure: nervous system | respiratory system.
H411	Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

Prevention

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash exposed skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280D	Wear protective gloves, protective clothing, and eye/face protection.

Response

P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
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 CENTER or doctor/physician.
P330	Rinse mouth.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.

Storage

P405	Store locked up.

Disposal

P501 Dispose of contents/container via an approved hazardous waste disposal contractor.

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	% by Weight
METHACRYLIC ACID ESTER	Trade Secret	30 - 50
POLYMERS	Trade Secret	20 - 40
2-hydroxyethyl methacrylate	868-77-9	10 - 30
α,α-Dimethylbenzyl hydroperoxide	80-15-9	<= 3
Cumene	98-82-8	< 0.5
6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	< 0.5
Styrenated phenol	61788-44-1	< 0.3
TRIETHYLENE GLYCOL BIS[3-(3-TERT-BUTYL-4-HYDROXY-5-METHYLPHENYL)PROPIONATE]	36443-68-2	< 0.3
2,5-Di-tert-pentylhydroquinone	79-74-3	< 0.1

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Remove person to fresh air. If you feel unwell, get medical attention.

Skin contact

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eye contact

Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

A product risk assessment is recommended to determine if eye wash facilities may be required when using this product in the workplace.

If swallowed

Rinse mouth. If you feel unwell, get medical attention.

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

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). Target organ effects following prolonged or repeated exposure. See Section 11 for additional details.

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

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

Hazardous Decomposition or By-Products

Substance	Condition
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.
Irritant vapours or gases.	During combustion.

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

5.4. Hazchem code: 3Z

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. Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS.

6.2. Environmental precautions
Avoid release to the environment. For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up
Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

Refer to Section 15 - Controls for more information

7.1. Precautions for safe handling
Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Keep away from reactive metals (eg. Aluminum, zinc etc.) to avoid the formation of hydrogen gas that could create an explosion hazard. Use personal protective equipment (eg. gloves, respirators…) as required.

7.2. Conditions for safe storage including any incompatibilities
Store away from heat. Store away from amines.

7.3. Certified handler

Not required

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
α,α-Dimethylbenzyl hydroperoxide	80-15-9	AIHA	TWA:6 mg/m3(1 ppm)	Skin
Cumene	98-82-8	ACGIH	TWA:5 ppm	A3: Confirmed animal carcinogen.
Cumene	98-82-8	New Zealand WES	TWA(8 hours):50 mg/m3(10 ppm);STEL(15 minutes):250 mg/m3(50 ppm)	Skin

ACGIH : American Conference of Governmental Industrial Hygienists
AIHA : American Industrial Hygiene Association
CMRG : Chemical Manufacturer's Recommended Guidelines
New Zealand WES : New Zealand Workplace Exposure Standards.
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
ppm: parts per million
mg/m³: milligrams per cubic metre
CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls
Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:
Full face shield.
Indirect vented goggles.

Refer AS/NZS 1336 - Recommended practices for occupational eye protection and for performance specifications AS/NZS 1337, Parts 1 - 6 - Personal eye-protection.

Skin/hand protection
Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

Gloves made from the following material(s) are recommended: Polymer laminate

If this product is used in a manner that presents a higher potential for exposure (e.g., spraying, high splash potential, etc.), then use of a protective apron may be necessary. See recommended glove material(s) for determining appropriate apron material(s). If a glove material is not available as an apron, polymer laminate is a suitable option.

Select and use gloves according to AS/NZ 2161.

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:
Half facepiece or full facepiece air-purifying respirator suitable for organic vapors or contact respirator manufacturer for appropriate gas/vapor respirator

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

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Specific Physical Form:	Paste
Colour	White
Odour	Acrylic
Odour threshold	*No data available.*
pH	*No data available.*
Melting point/Freezing point	*No data available.*
Boiling point/Initial boiling point/Boiling range	87 ºC
Flash point	102.2 ºC [*Details:*Closed cup]
Evaporation rate	*No data available.*
Flammability	Not applicable.
Flammable Limits(LEL)	*No data available.*
Flammable Limits(UEL)	*No data available.*
Vapour pressure	<=13.3 Pa
Relative Vapour Density	*No data available.*
Density	1.07 g/ml
Relative density	1.07 [*Ref Std:*WATER=1]
Water solubility	*No data available.*
Solubility- non-water	<=10 % [*Details:*Slight]
Partition coefficient: n-octanol/water	*No data available.*
Autoignition temperature	*No data available.*
Decomposition temperature	*No data available.*
Kinematic Viscosity	>=84,112 mm²/sec
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.*

Particle Characteristics	*Not applicable.*

SECTION 10: Stability and reactivity

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

10.2 Chemical stability
Stable.

10.3 Possibility of hazardous reactions
Hazardous polymerisation may occur.

10.4 Conditions to avoid
Heat.
Heat is generated during cure. Do not cure a mass larger than 50 grams in a confined space to prevent a premature exothermic reaction with production of intense heat and smoke.
Sparks and/or flames.

10.5 Incompatible materials
Amines.
Reactive metals
Reducing agents.

10.6 Hazardous decomposition products

Substance	Condition
None known.	

Refer to Section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1 Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

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

Skin contact
Harmful in contact with skin. 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
Harmful if swallowed.

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

Additional Health Effects:

Prolonged or repeated exposure may cause target organ effects:
Neurological effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and changes in blood pressure and heart rate. Respiratory effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish coloured skin (cyanosis), sputum production, changes in lung function tests, and respiratory failure.

Reproductive/Developmental Toxicity:
Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

Carcinogenicity:
Contains a chemical or chemicals which can cause cancer.

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

Acute Toxicity

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE >1,000 - =2,000 mg/kg
Overall product	Inhalation-Vapor(4 hr)		No data available; calculated ATE >10 - =20 mg/l
Overall product	Ingestion		No data available; calculated ATE >300 - =2,000 mg/kg
2-hydroxyethyl methacrylate	Dermal	Rabbit	LD50 > 5,000 mg/kg
2-hydroxyethyl methacrylate	Ingestion	Rat	LD50 5,564 mg/kg
α,α-Dimethylbenzyl hydroperoxide	Dermal	Rat	LD50 500 mg/kg
α,α-Dimethylbenzyl hydroperoxide	Inhalation-Vapor (4 hours)	Rat	LC50 1.4 mg/l
α,α-Dimethylbenzyl hydroperoxide	Ingestion	Rat	LD50 382 mg/kg
Cumene	Dermal	Rabbit	LD50 > 3,160 mg/kg
Cumene	Inhalation-Vapor (4 hours)	Rat	LC50 39.4 mg/l
Cumene	Ingestion	Rat	LD50 2,260 mg/kg
6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol	Dermal	Rabbit	LD50 > 10,000 mg/kg
6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol	Ingestion	Rat	LD50 > 5,000 mg/kg
TRIETHYLENE GLYCOL BIS[3-(3-TERT-BUTYL-4-HYDROXY-5-METHYLPHENYL)PROPIONATE]	Dermal	Rat	LD50 > 2,000 mg/kg
TRIETHYLENE GLYCOL BIS[3-(3-TERT-BUTYL-4-HYDROXY-5-METHYLPHENYL)PROPIONATE]	Ingestion	Rat	LD50 > 7,000 mg/kg
Styrenated phenol	Dermal	Rat	LD50 > 2,000 mg/kg
Styrenated phenol	Ingestion	Rat	LD50 > 2,000 mg/kg
2,5-Di-tert-pentylhydroquinone	Dermal	Rabbit	LD50 > 3,160 mg/kg
2,5-Di-tert-pentylhydroquinone	Ingestion	Rat	LD50 1,900 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
2-hydroxyethyl methacrylate	Rabbit	Minimal irritation
α,α-Dimethylbenzyl hydroperoxide	official classification	Corrosive
Cumene	Rabbit	Minimal irritation

6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol	Rabbit	No significant irritation
TRIETHYLENE GLYCOL BIS[3-(3-TERT-BUTYL-4-HYDROXY-5-METHYLPHENYL)PROPIONATE]	Rabbit	No significant irritation
Styrenated phenol	Rabbit	No significant irritation
2,5-Di-tert-pentylhydroquinone	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
2-hydroxyethyl methacrylate	Rabbit	Moderate irritant
α,α-Dimethylbenzyl hydroperoxide	official classification	Corrosive
Cumene	Rabbit	Mild irritant
6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol	Rabbit	Mild irritant
TRIETHYLENE GLYCOL BIS[3-(3-TERT-BUTYL-4-HYDROXY-5-METHYLPHENYL)PROPIONATE]	Rabbit	No significant irritation
Styrenated phenol	Rabbit	Mild irritant
2,5-Di-tert-pentylhydroquinone	Rabbit	Mild irritant

Sensitisation:

Skin Sensitisation

Name	Species	Value
2-hydroxyethyl methacrylate	Human and animal	Sensitising
Cumene	Guinea pig	Not classified
6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol	Mouse	Not classified
TRIETHYLENE GLYCOL BIS[3-(3-TERT-BUTYL-4-HYDROXY-5-METHYLPHENYL)PROPIONATE]	Guinea pig	Not classified
Styrenated phenol	Mouse	Sensitising
2,5-Di-tert-pentylhydroquinone	Mouse	Sensitising

Respiratory Sensitisation

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

Germ Cell Mutagenicity

Name	Route	Value
2-hydroxyethyl methacrylate	In vivo	Not mutagenic
2-hydroxyethyl methacrylate	In Vitro	Some positive data exist, but the data are not sufficient for classification
α,α-Dimethylbenzyl hydroperoxide	In vivo	Not mutagenic
α,α-Dimethylbenzyl hydroperoxide	In Vitro	Some positive data exist, but the data are not sufficient for classification
Cumene	In Vitro	Not mutagenic
Cumene	In vivo	Not mutagenic
6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol	In Vitro	Not mutagenic
TRIETHYLENE GLYCOL BIS[3-(3-TERT-BUTYL-4-HYDROXY-5-METHYLPHENYL)PROPIONATE]	In Vitro	Not mutagenic
2,5-Di-tert-pentylhydroquinone	In vivo	Not mutagenic
2,5-Di-tert-pentylhydroquinone	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Cumene	Inhalation	Multiple animal species	Carcinogenic.

TRIETHYLENE GLYCOL BIS[3-(3-TERT-BUTYL-4-HYDROXY-5-METHYLPHENYL)PROPIONATE]	Ingestion	Rat	Some positive data exist, but the data are not sufficient for classification

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
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
α,α-Dimethylbenzyl hydroperoxide	Ingestion	Not classified for development	Rat	NOAEL 100 mg/kg/day	during gestation
Cumene	Inhalation	Not classified for development	Rabbit	NOAEL 11.3 mg/l	during organogenesis
6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol	Ingestion	Not classified for female reproduction	Rat	NOAEL 50 mg/kg/day	premating into lactation
6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol	Ingestion	Not classified for development	Rat	NOAEL 50 mg/kg/day	premating into lactation
6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol	Ingestion	Toxic to male reproduction	Rat	NOAEL 12.5 mg/kg/day	50 days
TRIETHYLENE GLYCOL BIS[3-(3-TERT-BUTYL-4-HYDROXY-5-METHYLPHENYL)PROPIONATE]	Ingestion	Not classified for development	Rat	NOAEL 100 mg/kg/day	during organogenesis
2,5-Di-tert-pentylhydroquinone	Ingestion	Not classified for development	Rat	NOAEL 70 mg/kg/day	during organogenesis

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
α,α-Dimethylbenzyl hydroperoxide	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	occupational exposure
α,α-Dimethylbenzyl hydroperoxide	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL Not available	occupational exposure
α,α-Dimethylbenzyl hydroperoxide	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	
Cumene	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Multiple animal species	NOAEL Not available	not available
Cumene	Inhalation	respiratory irritation	May cause respiratory irritation	Human	LOAEL 0.2 mg/l	occupational exposure
Cumene	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Multiple animal species	NOAEL Not available	not available

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
α,α-Dimethylbenzyl hydroperoxide	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	NOAEL 0.031 mg/l	3 months
α,α-Dimethylbenzyl hydroperoxide	Inhalation	gastrointestinal tract	Not classified	Rat	NOAEL 0.031 mg/l	3 months
α,α-Dimethylbenzyl hydroperoxide	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 0.031 mg/l	3 months
α,α-Dimethylbenzyl	Inhalation	liver	Not classified	Rat	NOAEL	3 months

hydroperoxide					0.031 mg/l	
α,α-Dimethylbenzyl hydroperoxide	Inhalation	immune system	Not classified	Rat	NOAEL 0.031 mg/l	3 months
α,α-Dimethylbenzyl hydroperoxide	Inhalation	nervous system	Not classified	Rat	NOAEL 0.031 mg/l	3 months
α,α-Dimethylbenzyl hydroperoxide	Inhalation	eyes	Not classified	Rat	NOAEL 0.031 mg/l	3 months
α,α-Dimethylbenzyl hydroperoxide	Inhalation	endocrine system	Not classified	Rat	NOAEL 0.031 mg/l	3 months
α,α-Dimethylbenzyl hydroperoxide	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 0.031 mg/l	3 months
Cumene	Inhalation	auditory system	Not classified	Rat	NOAEL 59 mg/l	13 weeks
Cumene	Inhalation	endocrine system	Not classified	Rat	NOAEL 59 mg/l	13 weeks
Cumene	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 59 mg/l	13 weeks
Cumene	Inhalation	liver	Not classified	Rat	NOAEL 59 mg/l	13 weeks
Cumene	Inhalation	nervous system	Not classified	Rat	NOAEL 59 mg/l	13 weeks
Cumene	Inhalation	eyes	Not classified	Rat	NOAEL 59 mg/l	13 weeks
Cumene	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 4.9 mg/l	13 weeks
Cumene	Inhalation	respiratory system	Not classified	Rat	NOAEL 59 mg/l	13 weeks
Cumene	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 769 mg/kg/day	6 months
Cumene	Ingestion	heart	Not classified	Rat	NOAEL 769 mg/kg/day	6 months
Cumene	Ingestion	endocrine system	Not classified	Rat	NOAEL 769 mg/kg/day	6 months
Cumene	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 769 mg/kg/day	6 months
Cumene	Ingestion	liver	Not classified	Rat	NOAEL 769 mg/kg/day	6 months
Cumene	Ingestion	respiratory system	Not classified	Rat	NOAEL 769 mg/kg/day	6 months
6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol	Ingestion	liver	Not classified	Rat	NOAEL 42 mg/kg/day	18 months
6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol	Ingestion	heart	Not classified	Rat	NOAEL 42 mg/kg/day	18 months
6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol	Ingestion	endocrine system	Not classified	Rat	NOAEL 42 mg/kg/day	18 months
6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 42 mg/kg/day	18 months
6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 42 mg/kg/day	18 months
6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol	Ingestion	immune system	Not classified	Rat	NOAEL 42 mg/kg/day	18 months
6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol	Ingestion	muscles	Not classified	Rat	NOAEL 42 mg/kg/day	18 months
6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol	Ingestion	nervous system	Not classified	Rat	NOAEL 42 mg/kg/day	18 months
6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 42 mg/kg/day	18 months
6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol	Ingestion	respiratory system	Not classified	Rat	NOAEL 42 mg/kg/day	18 months
TRIETHYLENE GLYCOL BIS[3-(3-TERT-BUTYL-4-HYDROXY-5-METHYLPHENYL)PROPIONATE]	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 110 mg/kg/day	90 days
TRIETHYLENE GLYCOL BIS[3-(3-	Ingestion	endocrine system	Not classified	Rat	NOAEL 1,000	90 days

TERT-BUTYL-4-HYDROXY-5-METHYLPHENYL)PROPIONATE]					mg/kg/day	
TRIETHYLENE GLYCOL BIS[3-(3-TERT-BUTYL-4-HYDROXY-5-METHYLPHENYL)PROPIONATE]	Ingestion	liver	Not classified	Rat	NOAEL 100 mg/kg/day	24 months
TRIETHYLENE GLYCOL BIS[3-(3-TERT-BUTYL-4-HYDROXY-5-METHYLPHENYL)PROPIONATE]	Ingestion	hematopoietic system	Not classified	Monkey	NOAEL 1,000 mg/kg/day	28 days
2,5-Di-tert-pentylhydroquinone	Ingestion	endocrine system	Not classified	Rat	NOAEL 150 mg/kg/day	90 days
2,5-Di-tert-pentylhydroquinone	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 150 mg/kg/day	90 days
2,5-Di-tert-pentylhydroquinone	Ingestion	liver	Not classified	Rat	NOAEL 150 mg/kg/day	90 days
2,5-Di-tert-pentylhydroquinone	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 150 mg/kg/day	90 days
2,5-Di-tert-pentylhydroquinone	Ingestion	heart	Not classified	Rat	NOAEL 150 mg/kg/day	90 days
2,5-Di-tert-pentylhydroquinone	Ingestion	skin	Not classified	Rat	NOAEL 150 mg/kg/day	90 days
2,5-Di-tert-pentylhydroquinone	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 150 mg/kg/day	90 days
2,5-Di-tert-pentylhydroquinone	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 150 mg/kg/day	90 days
2,5-Di-tert-pentylhydroquinone	Ingestion	immune system	Not classified	Rat	NOAEL 150 mg/kg/day	90 days
2,5-Di-tert-pentylhydroquinone	Ingestion	nervous system	Not classified	Rat	NOAEL 150 mg/kg/day	90 days
2,5-Di-tert-pentylhydroquinone	Ingestion	eyes	Not classified	Rat	NOAEL 150 mg/kg/day	90 days
2,5-Di-tert-pentylhydroquinone	Ingestion	respiratory system	Not classified	Rat	NOAEL 150 mg/kg/day	90 days
2,5-Di-tert-pentylhydroquinone	Ingestion	vascular system	Not classified	Rat	NOAEL 150 mg/kg/day	90 days

Aspiration Hazard

Name	Value
Cumene	Aspiration hazard

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

SECTION 12: Ecological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity
Ecotoxic to the aquatic environment.
Acute Aquatic Toxicity: Category 3
Chronic Aquatic Toxicity: Category 2

No product test data available.

Material	CAS Number	Organism	Type	Exposure	Test endpoint	Test result
2-hydroxyethyl methacrylate	868-77-9	Turbot	Analogous Compound	96 hours	LC50	833 mg/l
2-hydroxyethyl methacrylate	868-77-9	Fathead minnow	Experimental	96 hours	LC50	227 mg/l
2-hydroxyethyl methacrylate	868-77-9	Green algae	Experimental	72 hours	EC50	710 mg/l
2-hydroxyethyl methacrylate	868-77-9	Water flea	Experimental	48 hours	EC50	380 mg/l
2-hydroxyethyl methacrylate	868-77-9	Green algae	Experimental	72 hours	NOEC	160 mg/l
2-hydroxyethyl methacrylate	868-77-9	Water flea	Experimental	21 days	NOEC	24.1 mg/l
2-hydroxyethyl methacrylate	868-77-9	N/A	Experimental	16 hours	EC0	>3,000 mg/l
2-hydroxyethyl methacrylate	868-77-9	N/A	Experimental	18 hours	LD50	<98 mg per kg of bodyweight
α,α-Dimethylbenzyl hydroperoxide	80-15-9	Bacteria	Experimental	18 hours	EC10	0.103 mg/l
α,α-Dimethylbenzyl hydroperoxide	80-15-9	Green algae	Experimental	72 hours	EC50	3.1 mg/l
α,α-Dimethylbenzyl hydroperoxide	80-15-9	Rainbow trout	Experimental	96 hours	LC50	3.9 mg/l
α,α-Dimethylbenzyl hydroperoxide	80-15-9	Water flea	Experimental	48 hours	EC50	18.84 mg/l
α,α-Dimethylbenzyl hydroperoxide	80-15-9	Green algae	Experimental	72 hours	NOEC	1 mg/l
6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	Green algae	Endpoint not reached	72 hours	EC50	>100 mg/l
6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	Water flea	Endpoint not reached	48 hours	EC50	>100 mg/l
6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	Activated sludge	Experimental	3 hours	EC50	>10,000 mg/l
6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	Medaka	Experimental	96 hours	No tox obs at lmt of water sol	>100 mg/l
6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	Green algae	Experimental	72 hours	NOEC	1.3 mg/l

Cumene	98-82-8	Activated sludge	Experimental	3 hours	EC10	>2,000 mg/l
Cumene	98-82-8	Green algae	Experimental	72 hours	EC50	2.6 mg/l
Cumene	98-82-8	Mysid Shrimp	Experimental	96 hours	EC50	1.2 mg/l
Cumene	98-82-8	Rainbow trout	Experimental	96 hours	LC50	2.7 mg/l
Cumene	98-82-8	Water flea	Experimental	48 hours	EC50	2.14 mg/l
Cumene	98-82-8	Green algae	Experimental	72 hours	NOEC	0.22 mg/l
Cumene	98-82-8	Water flea	Experimental	21 days	NOEC	0.35 mg/l
Styrenated phenol	61788-44-1	Green algae	Experimental	72 hours	ErC50	1.35 mg/l
Styrenated phenol	61788-44-1	Medaka	Experimental	96 hours	LC50	5.6 mg/l
Styrenated phenol	61788-44-1	Water flea	Experimental	48 hours	EC50	4.6 mg/l
Styrenated phenol	61788-44-1	Zebra Fish	Analogous Compound	63 days	NOEC	0.0618 mg/l
Styrenated phenol	61788-44-1	Green algae	Experimental	72 hours	NOEC	0.42 mg/l
Styrenated phenol	61788-44-1	Water flea	Experimental	21 days	NOEC	0.2 mg/l
Styrenated phenol	61788-44-1	Activated sludge	Experimental	3 hours	EC50	362 mg/l
TRIETHYLENE GLYCOL BIS[3-(3-TERT-BUTYL-4-HYDROXY-5-METHYLPHENYL)PROPIONATE]	36443-68-2	Bluegill	Endpoint not reached	96 hours	LC50	>100 mg/l
TRIETHYLENE GLYCOL BIS[3-(3-TERT-BUTYL-4-HYDROXY-5-METHYLPHENYL)PROPIONATE]	36443-68-2	Green algae	Experimental	72 hours	No tox obs at lmt of water sol	>100 mg/l
TRIETHYLENE GLYCOL BIS[3-(3-TERT-BUTYL-4-HYDROXY-5-METHYLPHENYL)PROPIONATE]	36443-68-2	Water flea	Experimental	48 hours	No tox obs at lmt of water sol	>100 mg/l
TRIETHYLENE GLYCOL BIS[3-(3-TERT-BUTYL-4-HYDROXY-5-	36443-68-2	Fathead minnow	Experimental	32 days	NOEC	0.0088 mg/l

METHYLPHENYL)PROPIONATE]						
TRIETHYLENE GLYCOL BIS[3-(3-TERT-BUTYL-4-HYDROXY-5-METHYLPHENYL)PROPIONATE]	36443-68-2	Green algae	Experimental	72 hours	No tox obs at lmt of water sol	>100 mg/l
TRIETHYLENE GLYCOL BIS[3-(3-TERT-BUTYL-4-HYDROXY-5-METHYLPHENYL)PROPIONATE]	36443-68-2	Water flea	Experimental	21 days	NOEC	0.0055 mg/l
TRIETHYLENE GLYCOL BIS[3-(3-TERT-BUTYL-4-HYDROXY-5-METHYLPHENYL)PROPIONATE]	36443-68-2	Activated sludge	Experimental	3 hours	IC50	>100 mg/l
TRIETHYLENE GLYCOL BIS[3-(3-TERT-BUTYL-4-HYDROXY-5-METHYLPHENYL)PROPIONATE]	36443-68-2	Redworm	Experimental	56 days	NOEC	1,000 mg/kg (Dry Weight)
2,5-Di-tert-pentylhydroquinone	79-74-3	Bluegill	Experimental	96 hours	LC50	0.013 mg/l
2,5-Di-tert-pentylhydroquinone	79-74-3	Green algae	Experimental	72 hours	ErC50	0.246 mg/l
2,5-Di-tert-pentylhydroquinone	79-74-3	Water flea	Experimental	48 hours	LC50	0.91 mg/l
2,5-Di-tert-pentylhydroquinone	79-74-3	Fathead minnow	Experimental	28 days	NOEC	0.0032 mg/l
2,5-Di-tert-pentylhydroquinone	79-74-3	Green algae	Experimental	72 hours	NOEC	0.049 mg/l
2,5-Di-tert-	79-74-3	Water flea	Experimental	21 days	NOEC	0.011 mg/l

pentylhydroquinone						
2,5-Di-tert-pentylhydroquinone	79-74-3	Activated sludge	Experimental	3 hours	EC50	>100 mg/l
2,5-Di-tert-pentylhydroquinone	79-74-3	>2000, <5000	Experimental	21 days	EC50	7.95 mg/kg (Dry Weight)
2,5-Di-tert-pentylhydroquinone	79-74-3	Redworm	Experimental	56 days	NOEC	1.7 mg/kg (Dry Weight)
2,5-Di-tert-pentylhydroquinone	79-74-3	Soil microbes	Experimental	28 days	EC50	>1,000 mg/kg (Dry Weight)

12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
2-hydroxyethyl methacrylate	868-77-9	Experimental Biodegradation	28 days	BOD	84 %BOD/COD	OECD 301D - Closed bottle test
2-hydroxyethyl methacrylate	868-77-9	Experimental Hydrolysis		Hydrolytic half-life basic pH	10.9 days (t 1/2)	OECD 111 Hydrolysis func of pH
α,α-Dimethylbenzyl hydroperoxide	80-15-9	Experimental Biodegradation	28 days	BOD	0 %BOD/ThOD	OECD 301C - MITI test (I)
6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	Experimental Biodegradation	28 days	BOD	0 %BOD/ThOD	OECD 301C - MITI test (I)
Cumene	98-82-8	Experimental Biodegradation	14 days	BOD	33 %BOD/ThOD	OECD 301C - MITI test (I)
Cumene	98-82-8	Experimental Photolysis		Photolytic half-life (in air)	4.5 days (t 1/2)	
Styrenated phenol	61788-44-1	Experimental Biodegradation	28 days	BOD	7 %BOD/ThOD	OECD 301F - Manometric respirometry
Styrenated phenol	61788-44-1	Analogous Compound Biodegradation		Half-life (t 1/2)	34.9 days (t 1/2)	
Styrenated phenol	61788-44-1	Analogous Compound Soil Metabolism Aerobic		Half-life (t 1/2)	12.5 days (t 1/2)	
TRIETHYLENE GLYCOL BIS[3-(3-TERT-BUTYL-4-HYDROXY-5-METHYLPHENYL)PROPIONATE]	36443-68-2	Experimental Biodegradation	28 days	CO2 evolution	8 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
TRIETHYLENE GLYCOL	36443-68-2	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	>1 years (t 1/2)	OECD 111 Hydrolysis func of pH

BIS[3-(3-TERT-BUTYL-4-HYDROXY-5-METHYLPHENYL)PROPIONATE]						
2,5-Di-tert-pentylhydroquinone	79-74-3	Experimental Aquatic Inherent Biodegrad.	38 days	CO2 evolution	1 %CO2 evolution/THCO2 evolution	similar to OECD 301B
2,5-Di-tert-pentylhydroquinone	79-74-3	Experimental Biodegradation		Half-life (t 1/2)	4 days (t 1/2)	

12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
2-hydroxyethyl methacrylate	868-77-9	Experimental Bioconcentration		Log Kow	0.42	OECD 107 log Kow shke flsk mtd
α,α-Dimethylbenzyl hydroperoxide	80-15-9	Experimental Bioconcentration		Log Kow	1.82	
6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	Experimental BCF - Fish	60 days	Bioaccumulation factor	840	OECD305-Bioconcentration
Cumene	98-82-8	Modeled Bioconcentration		Bioaccumulation factor	140	Catalogic™
Cumene	98-82-8	Experimental Bioconcentration		Log Kow	3.55	OECD 107 log Kow shke flsk mtd
Styrenated phenol	61788-44-1	Experimental BCF - Fish	10 days	Bioaccumulation factor	10395	
Styrenated phenol	61788-44-1	Experimental Bioconcentration		Log Kow	>4	
TRIETHYLENE GLYCOL BIS[3-(3-TERT-BUTYL-4-HYDROXY-5-METHYLPHENYL)PROPIONATE]	36443-68-2	Experimental BCF - Fish	56 days	Bioaccumulation factor	8.0	OECD305-Bioconcentration
TRIETHYLENE GLYCOL BIS[3-(3-TERT-BUTYL-4-HYDROXY-5-METHYLPHE	36443-68-2	Experimental Bioconcentration		Log Kow	4.7	OECD 117 log Kow HPLC method

NYL)PROPIONATE]						
2,5-Di-tert-pentylhydroquinone	79-74-3	Modeled Bioconcentration		Bioaccumulation factor	44	Catalogic™
2,5-Di-tert-pentylhydroquinone	79-74-3	Experimental Bioconcentration		Log Kow	5.1	EC A.23 Part. Coeff Slow-Stir

12.4. Mobility in soil
Please contact manufacturer for more details

12.5 Other adverse effects
No information available.

SECTION 13: Disposal considerations

13.1. Disposal methods
In accordance with the Hazardous Substances (Disposal) Notice 2017 and the relevant criteria of the HSNO Act 1996.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

Packaging (that may or may not contain any residual substance) may be lawfully disposed of by householders or other consumers through public or commercial waste collection services.

SECTION 14: Transport Information

New Zealand Land Transport Rule: Dangerous Goods - Road/Rail Transport
UN No.: UN3082
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. , (Cumene hydroperoxide)
Class/Division: 9
Sub Risk: Not applicable.
Packing Group: III

Hazchem Code: 3Z
IERG: 47

International Air Transport Association (IATA) - Air Transport
UN No.: UN3082
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. , (Cumene hydroperoxide)
Class/Division: 9
Sub Risk: Not applicable.
Packing Group: III
Special Instructions: Not restricted, as per Special Provision A197, environmentally hazardous substance exception.

International Maritime Dangerous Goods Code (IMDG) - Marine Transport
UN No.: UN3082
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. , (Cumene

hydroperoxide)
Class/Division: 9
Sub Risk: Not applicable.
Packing Group: III
Marine Pollutant: Not applicable.
Special Instructions: Not restricted, as per IMDG code 2.10.2.7, marine pollutant exception.

SECTION 15: Regulatory information

HSNO Approval number	HSR002679
Group standard name	Surface Coatings and Colourants (Carcinogenic) Group Standard 2020
HSNO Hazard classification	Refer to Section 2: Hazard identification

NZ Inventory of Chemicals (NZIoC) Status
All applicable chemical ingredients in this material are in compliance with NZIoC listing requirements.

Controls in accordance with The Health and Safety at Work Act 2015, Health and Safety at Work (Hazardous Substances) Regulations 2017 and the HSNO Act 1996, Hazardous Substances (Hazardous Property Controls) Notice 2017

Certified handler	Not required
Location Compliance Certificate	Not required
Hazardous atmosphere zone	Not required
Fire extinguishers	Not required
Emergency response plan	100 L or 100 kg (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L or 1 000 kg (for all other substances)
Secondary containment	100 L or 100 kg (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L or 1 000 kg (for all other substances)
Tracking	Not required
Warning signage	100 L or 100 kg (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L or 1 000 kg (for Serious eye damage Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L or 10 000 kg (for Acute toxicity Category 4 or Hazardous to the aquatic environment Category 4 substances)
Contains substance/s restricted to the workplace	Contains substance/s restricted to the workplace Yes

SECTION 16: Other information

Revision information:
Initial issue.

Document group:	45-6292-2	**Version number:**	1.01
Issue Date:	29/03/2026	**Supersedes date:**	24/09/2025

Key to abbreviations and acronyms
GHS refers to the Globally Harmonised System of Classification and Labelling of Chemicals, 7th revised edition of 2017
HSNO means Hazardous Substances and New Organisms Act 1996

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