Safety Data Sheet

Document group:	42-2637-9	**Version number:**	1.00
Issue Date:	14/08/2023	**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
3M™ Scotch-Weld™ Nylon Bonder Structural Adhesive DP8910NS, Black, Kit

Product Identification Numbers
62-2875-1445-9

1.2. Recommended use and restrictions on use

Recommended use
Adhesive, Structural 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:

42-2614-8, 42-2612-2

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 Dangerous Goods Classification for the complete Kit is provided below.

UN No.:UN2920
Proper shipping name:CORROSIVE LIQUID, FLAMMABLE, N.O.S., (Methacrylic Acid, Methyl Methacrylate)
Class/Division:8

Packing Group:II
Marine Pollutant: Not applicable.
Sub Risk:3
Hazchem Code:3W
IERG:18

International Maritime Dangerous Goods Code (IMDG) - Marine Transport
Special Instructions: Limited quantity may apply

Revision information:
Initial issue.

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Safety Data Sheet

Document group:	42-2612-2	**Version number:**	1.00
Issue Date:	18/07/2023	**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
3M™ Scotch-Weld™ Nylon Bonder Structural Adhesive DP8910NS, Blk, Part B

1.2. Recommended use and restrictions on use

Recommended use
Adhesive, Structural adhesive.

For Industrial or Professional use only

1.3. Supplier's details

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

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

SECTION 2: Hazard identification

Classified as hazardous in accordance with the relevant criteria of the HSNO Act 1996 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
Flammable Liquids: Category 3
Acute oral toxicity: Category 4
Acute dermal toxicity: Category 4
Skin corrosion: Category 1B
Serious eye damage: Category 1
Skin sensitisation: Category 1
Specific target organ toxicity – repeated exposure: Category 1
Specific target organ toxicity – single exposure: Category 3 respiratory tract irritation
Hazardous to the aquatic environment chronic: Category 3

2.2. Label elements
SIGNAL WORD
Danger

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

Pictograms

HAZARD STATEMENTS:

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H372	Causes damage to organs through prolonged or repeated exposure: sensory organs.
H412	Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating and lighting equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash 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

P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON 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.
P370 + P378	In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry

chemical or carbon dioxide to extinguish.

Storage

P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

Disposal

P501	Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

2.3. Other hazards

May cause chemical gastrointestinal burns.

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	% by Weight
Methyl Methacrylate	80-62-6	5 - 30
Methacrylic acid	79-41-4	< 25
Polymeric Methacrylate (NJTS Reg. No. 04499600-7447)	Trade Secret	1 - 25
Fillers	12001-26-2	< 25
Hydroxyethyl Methacrylate	868-77-9	< 25
Isobornyl Methacryate	7534-94-3	< 25
Lauryl Methacrylate	142-90-5	< 15
Acrylonitrile-Butadiene Polymers	9003-18-3	<= 15
Acrylic Copolymer (NJTS Reg. No. 04499600-7448)	Trade Secret	<= 15
Filers-II (NJTSRN 04499600-7093)	Trade Secret	<= 10
Phosphate Esters of PPG Methacrylate	95175-93-2	< 10
Myristyl Methacrylate	2549-53-3	< 5
Benzenemethanaminium, N,N,N-tributyl-, chloride	23616-79-7	<= 5
Hexadecyl Methacrylate	2495-27-4	< 5
Carbon black	1333-86-4	< 1
4-Methoxyphenol	150-76-5	< 1
Copper Naphthenates	1338-02-9	< 0.5

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

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

Skin contact

Immediately flush with large amounts of water for at least 15 minutes. Remove contaminated clothing. Get immediate medical attention. Wash clothing before reuse.

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. Do not induce vomiting. Get immediate medical attention.

4.2. Most important symptoms and effects, both acute and delayed
The most important symptoms and effects based on the CLP classification include:

4.3. Indication of any immediate medical attention and special treatment required
Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media
In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

5.2. Special hazards arising from the substance or mixture
Closed containers exposed to heat from fire may build pressure and explode.

Hazardous Decomposition or By-Products

Substance	Condition
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.
Hydrogen Chloride	During combustion.
Oxides of nitrogen.	During combustion.

5.3. Special protective actions for fire-fighters
Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. When fire fighting conditions are severe and total thermal decomposition of the product is possible, wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus,tunic and trousers (leggings),bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

5.4. Hazchem code: -3W

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions
Avoid release to the environment. 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
Contain spill. Cover spill area with a fire-extinguishing foam. 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 using non-sparking tools. Place in a metal 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
For industrial/occupational use only. Not for consumer sale or use. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. 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. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Wear low static or properly grounded shoes. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapor accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

7.2. Conditions for safe storage including any incompatibilities
Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store away from heat. Store away from acids. Store away from strong bases. 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
Fillers	12001-26-2	ACGIH	TWA(respirable fraction):0.1 mg/m3	
Fillers	12001-26-2	New Zealand WES	TWA(as respirable dust)(8 hours):3 mg/m3	
Carbon black	1333-86-4	ACGIH	TWA(inhalable fraction):3 mg/m3	A3: Confirmed animal carcinogen.
Carbon black	1333-86-4	New Zealand WES	TWA(8 hours): 3 mg/m3	Suspected human carcinogen.
Copper compounds	1338-02-9	ACGIH	TWA(as Cu, fume):0.2 mg/m3;TWA(as Cu dust or mist):1 mg/m3	
4-Methoxyphenol	150-76-5	ACGIH	TWA:5 mg/m3	
4-Methoxyphenol	150-76-5	New Zealand WES	TWA(8 hours):5 mg/m3	Dermal sensitizer
Methacrylic acid	79-41-4	ACGIH	TWA:20 ppm	
Methacrylic acid	79-41-4	New Zealand WES	TWA(8 hours):70 mg/m3(20 ppm)	
Methyl Methacrylate	80-62-6	ACGIH	TWA:50 ppm;STEL:100 ppm	A4: Not class. as human carcin, Dermal Sensitizer
Methyl Methacrylate	80-62-6	New Zealand WES	TWA(8 hours):208 mg/m3(50 ppm);STEL(15 minutes):416 mg/m3(100 ppm)	Dermal sensitizer, 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/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. Use explosion-proof ventilation 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 (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

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	Black
Odour	Acrylic

Odour threshold	*No data available.*
pH	*Not applicable.*
Melting point/Freezing point	*Not applicable.*
Boiling point/Initial boiling point/Boiling range	No boiling point
Flash point	>=47.8 ºC [*Test Method:*Closed Cup]
Evaporation rate	*No data available.*
Flammability (solid, gas)	Not applicable.
Flammable Limits(LEL)	*No data available.*
Flammable Limits(UEL)	*No data available.*
Vapour pressure	*No data available.*
Vapor Density and/or Relative Vapor Density	*No data available.*
Density	1.066 g/ml
Relative density	1.066 [*Ref Std:*WATER=1]
Water solubility	Nil
Solubility- non-water	*No data available.*
Partition coefficient: n-octanol/water	*No data available.*
Autoignition temperature	*No data available.*
Decomposition temperature	*No data available.*
Viscosity/Kinematic Viscosity	74,000 mPa-s
Volatile organic compounds (VOC)	715 g/l [*Details:*EU VOC Content]
Percent volatile	*No data available.*
VOC less H2O & exempt solvents	20 g/l [*Test Method:*calculated SCAQMD rule 443.1] [*Details:*when used as intended with Part A]
Molecular weight	*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.
Sparks and/or flames.

10.5 Incompatible materials
Amines.
Strong acids.
Strong bases.
Strong oxidising 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
May be 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. Corrosive (skin burns): Signs/symptoms may include localised redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction. 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 corrosion: Signs/symptoms may include severe mouth, throat and abdominal pain, nausea, vomiting, and diarrhea; blood in the faeces and/or vomitus may also be seen.

Additional Health Effects:

Prolonged or repeated exposure may cause target organ effects:
Olfactory effects: Signs/symptoms may include decreased ability to detect odours and complete loss of smell.

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 >20 - =50 mg/l
Overall product	Ingestion		No data available; calculated ATE >300 - =2,000 mg/kg
Methyl Methacrylate	Dermal	Rabbit	LD50 > 5,000 mg/kg
Methyl Methacrylate	Inhalation-Vapor (4 hours)	Rat	LC50 29.8 mg/l
Methyl Methacrylate	Ingestion	Rat	LD50 7,900 mg/kg
Methacrylic acid	Dermal	Rabbit	LD50 > 500 mg/kg
Methacrylic acid	Inhalation-Dust/Mist (4 hours)	Rat	LC50 7.1 mg/l
Methacrylic acid	Ingestion	Rat	LD50 1,320 mg/kg

Fillers	Dermal		LD50 estimated to be > 5,000 mg/kg
Fillers	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
Hydroxyethyl Methacrylate	Dermal	Rabbit	LD50 > 5,000 mg/kg
Hydroxyethyl Methacrylate	Ingestion	Rat	LD50 5,564 mg/kg
Isobornyl Methacryate	Dermal	Rabbit	LD50 > 3,000 mg/kg
Isobornyl Methacryate	Ingestion	Rat	LD50 3,100 mg/kg
Acrylonitrile-Butadiene Polymers	Dermal	Rabbit	LD50 > 15,000 mg/kg
Acrylonitrile-Butadiene Polymers	Ingestion	Rat	LD50 > 30,000 mg/kg
Lauryl Methacrylate	Ingestion	Rat	LD50 > 5,000 mg/kg
Lauryl Methacrylate	Dermal	similar compounds	LD50 > 3,000 mg/kg
Filers-II (NJTSRN 04499600-7093)	Dermal	Rabbit	LD50 > 5,000 mg/kg
Filers-II (NJTSRN 04499600-7093)	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
Filers-II (NJTSRN 04499600-7093)	Ingestion	Rat	LD50 > 5,110 mg/kg
Phosphate Esters of PPG Methacrylate	Ingestion	Rat	LD50 > 5,000 mg/kg
Phosphate Esters of PPG Methacrylate	Dermal	similar health hazards	LD50 estimated to be > 5,000 mg/kg
Benzenemethanaminium, N,N,N-tributyl-, chloride	Ingestion	Not available	LD50 500 mg/kg
Myristyl Methacrylate	Dermal	Rabbit	LD50 > 3,000 mg/kg
Myristyl Methacrylate	Ingestion	Rat	LD50 > 5,000 mg/kg
Hexadecyl Methacrylate	Dermal	Rabbit	LD50 > 3,000 mg/kg
Hexadecyl Methacrylate	Ingestion	Rat	LD50 > 5,000 mg/kg
Carbon black	Dermal	Rabbit	LD50 > 3,000 mg/kg
Carbon black	Ingestion	Rat	LD50 > 8,000 mg/kg
Copper Naphthenates	Dermal	similar compounds	LD50 > 2,000 mg/kg
Copper Naphthenates	Ingestion	similar compounds	LD50 >300, < 2,000 mg/kg
4-Methoxyphenol	Dermal	Rat	LD50 > 2,000 mg/kg
4-Methoxyphenol	Ingestion	Rat	LD50 1,630 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Methyl Methacrylate	Rabbit	Irritant
Methacrylic acid	Rabbit	Corrosive
Hydroxyethyl Methacrylate	Rabbit	Minimal irritation
Isobornyl Methacryate	Rabbit	Mild irritant
Acrylonitrile-Butadiene Polymers	Professional judgement	No significant irritation
Lauryl Methacrylate	similar compounds	Minimal irritation
Filers-II (NJTSRN 04499600-7093)	Rabbit	No significant irritation
Phosphate Esters of PPG Methacrylate	Not available	Irritant
Benzenemethanaminium, N,N,N-tributyl-, chloride	Guinea pig	Corrosive
Myristyl Methacrylate	Rabbit	Minimal irritation
Hexadecyl Methacrylate	Rabbit	Minimal irritation
Carbon black	Rabbit	No significant irritation
Copper Naphthenates	Rabbit	No significant irritation
4-Methoxyphenol	Rabbit	Mild irritant

Serious Eye Damage/Irritation

Name	Species	Value
Methyl Methacrylate	Rabbit	Mild irritant
Methacrylic acid	Rabbit	Corrosive
Hydroxyethyl Methacrylate	Rabbit	Moderate irritant
Isobornyl Methacryate	Rabbit	Mild irritant
Acrylonitrile-Butadiene Polymers	Professional judgement	No significant irritation
Lauryl Methacrylate	similar compounds	No significant irritation
Filers-II (NJTSRN 04499600-7093)	Rabbit	No significant irritation
Phosphate Esters of PPG Methacrylate	Not available	Corrosive
Benzenemethanaminium, N,N,N-tributyl-, chloride	similar health hazards	Corrosive
Myristyl Methacrylate	Rabbit	No significant irritation
Hexadecyl Methacrylate	Rabbit	No significant irritation
Carbon black	Rabbit	No significant irritation
Copper Naphthenates	In vitro data	No significant irritation
4-Methoxyphenol	Rabbit	Severe irritant

Sensitisation:

Skin Sensitisation

Name	Species	Value
Methyl Methacrylate	Human and animal	Sensitising
Methacrylic acid	Guinea pig	Not classified
Hydroxyethyl Methacrylate	Human and animal	Sensitising
Isobornyl Methacryate	Guinea pig	Not classified
Lauryl Methacrylate	Guinea pig	Not classified
Filers-II (NJTSRN 04499600-7093)	Human and animal	Not classified
Myristyl Methacrylate	Professional judgement	Some positive data exist, but the data are not sufficient for classification
Hexadecyl Methacrylate	Mouse	Some positive data exist, but the data are not sufficient for classification
Copper Naphthenates	Guinea pig	Not classified
4-Methoxyphenol	Guinea pig	Sensitising

Respiratory Sensitisation

Name	Species	Value
Methyl Methacrylate	Human	Not classified

Germ Cell Mutagenicity

Name	Route	Value
Methyl Methacrylate	In vivo	Not mutagenic
Methyl Methacrylate	In Vitro	Some positive data exist, but the data are not sufficient for classification
Methacrylic acid	In Vitro	Not mutagenic
Methacrylic acid	In vivo	Not mutagenic
Hydroxyethyl Methacrylate	In vivo	Not mutagenic
Hydroxyethyl Methacrylate	In Vitro	Some positive data exist, but the data are not sufficient for classification
Isobornyl Methacryate	In Vitro	Not mutagenic
Lauryl Methacrylate	In Vitro	Not mutagenic
Lauryl Methacrylate	In vivo	Not mutagenic
Filers-II (NJTSRN 04499600-7093)	In Vitro	Not mutagenic
Myristyl Methacrylate	In Vitro	Not mutagenic
Carbon black	In Vitro	Not mutagenic
Carbon black	In vivo	Some positive data exist, but the data are not sufficient for classification
4-Methoxyphenol	In vivo	Not mutagenic
4-Methoxyphenol	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Methyl Methacrylate	Ingestion	Rat	Not carcinogenic
Methyl Methacrylate	Inhalation	Human and animal	Not carcinogenic
Filers-II (NJTSRN 04499600-7093)	Not specified.	Mouse	Some positive data exist, but the data are not sufficient for classification
Carbon black	Dermal	Mouse	Not carcinogenic
Carbon black	Ingestion	Mouse	Not carcinogenic
Carbon black	Inhalation	Rat	Carcinogenic.
4-Methoxyphenol	Dermal	Multiple animal species	Not carcinogenic
4-Methoxyphenol	Ingestion	Multiple animal species	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
Methyl Methacrylate	Ingestion	Not classified for female reproduction	Rat	NOAEL 400 mg/kg/day	2 generation
Methyl Methacrylate	Ingestion	Not classified for male reproduction	Rat	NOAEL 400 mg/kg/day	2 generation
Methyl Methacrylate	Ingestion	Not classified for development	Rabbit	NOAEL 450 mg/kg/day	during gestation
Methyl Methacrylate	Inhalation	Not classified for development	Rat	NOAEL 8.3 mg/l	during organogenesis
Methacrylic acid	Inhalation	Not classified for development	Rat	NOAEL 1.076 mg/l	during gestation
Hydroxyethyl Methacrylate	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
Hydroxyethyl Methacrylate	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	49 days
Hydroxyethyl Methacrylate	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
Isobornyl Methacryate	Ingestion	Not classified for female reproduction	Rat	NOAEL 500	premating

				mg/kg/day	into lactation
Isobornyl Methacryate	Ingestion	Not classified for male reproduction	Rat	NOAEL 500 mg/kg/day	4 weeks
Isobornyl Methacryate	Ingestion	Not classified for development	Rat	NOAEL 500 mg/kg/day	premating into lactation
Lauryl Methacrylate	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
Lauryl Methacrylate	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	6 weeks
Lauryl Methacrylate	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
Filers-II (NJTSRN 04499600-7093)	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Filers-II (NJTSRN 04499600-7093)	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Filers-II (NJTSRN 04499600-7093)	Ingestion	Not classified for development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis
4-Methoxyphenol	Ingestion	Not classified for female reproduction	Rat	NOAEL 300 mg/kg/day	premating into lactation
4-Methoxyphenol	Ingestion	Not classified for male reproduction	Rat	NOAEL 300 mg/kg/day	28 days
4-Methoxyphenol	Ingestion	Not classified for development	Rat	NOAEL 200 mg/kg/day	during gestation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Methyl Methacrylate	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL Not available	occupational exposure
Methacrylic acid	Inhalation	respiratory irritation	May cause respiratory irritation	Rat	NOAEL Not available	
Isobornyl Methacryate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Lauryl Methacrylate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Professional judgement	NOAEL Not available	
Phosphate Esters of PPG Methacrylate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Benzenemethanaminium, N,N,N-tributyl-, chloride	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	
Myristyl Methacrylate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Professional judgement	NOAEL not available	
4-Methoxyphenol	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
Methyl Methacrylate	Dermal	peripheral nervous system	Not classified	Human	NOAEL Not available	occupational exposure
Methyl Methacrylate	Inhalation	olfactory system	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
Methyl Methacrylate	Inhalation	kidney and/or	Not classified	Multiple	NOAEL Not	14 weeks

		bladder		animal species	available	
Methyl Methacrylate	Inhalation	liver	Not classified	Mouse	NOAEL 12.3 mg/l	14 weeks
Methyl Methacrylate	Inhalation	respiratory system	Not classified	Human	NOAEL Not available	occupational exposure
Methyl Methacrylate	Ingestion	kidney and/or bladder | heart | skin | endocrine system | gastrointestinal tract | hematopoietic system | liver | muscles | nervous system | respiratory system	Not classified	Rat	NOAEL 90.3 mg/kg/day	2 years
Methacrylic acid	Inhalation	respiratory system	Not classified	Rat	NOAEL 0.352 mg/l	90 days
Methacrylic acid	Inhalation	blood | nervous system | eyes | kidney and/or bladder	Not classified	Rat	NOAEL 1.232 mg/l	90 days
Fillers	Inhalation	pneumoconiosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
Isobornyl Methacryate	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 150 mg/kg/day	90 days
Isobornyl Methacryate	Ingestion	endocrine system | hematopoietic system | kidney and/or bladder	Not classified	Rat	NOAEL 500 mg/kg/day	90 days
Lauryl Methacrylate	Ingestion	hematopoietic system | liver | kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	6 weeks
Filers-II (NJTSRN 04499600-7093)	Inhalation	respiratory system | silicosis	Not classified	Human	NOAEL Not available	occupational exposure
Carbon black	Inhalation	pneumoconiosis	Not classified	Human	NOAEL Not available	occupational exposure
4-Methoxyphenol	Ingestion	gastrointestinal tract	Not classified	Rat	LOAEL 300 mg/kg/day	28 days
4-Methoxyphenol	Ingestion	liver | immune system	Not classified	Rat	NOAEL 300 mg/kg/day	28 days
4-Methoxyphenol	Ingestion	kidney and/or bladder	Not classified	Rat	LOAEL 300 mg/kg/day	28 days
4-Methoxyphenol	Ingestion	heart | endocrine system | hematopoietic system | nervous system | respiratory system	Not classified	Rat	NOAEL 300 mg/kg/day	28 days

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

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 3

No product test data available.

Material	CAS Number	Organism	Type	Exposure	Test endpoint	Test result
Methyl Methacrylate	80-62-6	Green algae	Experimental	72 hours	EC50	>110 mg/l
Methyl Methacrylate	80-62-6	Rainbow trout	Experimental	96 hours	LC50	>79 mg/l
Methyl Methacrylate	80-62-6	Water flea	Experimental	48 hours	EC50	69 mg/l
Methyl Methacrylate	80-62-6	Green algae	Experimental	72 hours	NOEC	110 mg/l
Methyl Methacrylate	80-62-6	Water flea	Experimental	21 days	NOEC	37 mg/l
Methyl Methacrylate	80-62-6	Activated sludge	Experimental	30 minutes	EC20	150 mg/l
Methyl Methacrylate	80-62-6	Soil microbes	Experimental	28 days	NOEC	>1,000 mg/kg (Dry Weight)
Fillers	12001-26-2	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Hydroxyethyl Methacrylate	868-77-9	Turbot	Analogous Compound	96 hours	LC50	833 mg/l
Hydroxyethyl Methacrylate	868-77-9	Fathead minnow	Experimental	96 hours	LC50	227 mg/l
Hydroxyethyl Methacrylate	868-77-9	Green algae	Experimental	72 hours	EC50	710 mg/l
Hydroxyethyl Methacrylate	868-77-9	Water flea	Experimental	48 hours	EC50	380 mg/l
Hydroxyethyl Methacrylate	868-77-9	Green algae	Experimental	72 hours	NOEC	160 mg/l
Hydroxyethyl Methacrylate	868-77-9	Water flea	Experimental	21 days	NOEC	24.1 mg/l
Hydroxyethyl Methacrylate	868-77-9	N/A	Experimental	16 hours	EC0	>3,000 mg/l
Hydroxyethyl Methacrylate	868-77-9	N/A	Experimental	18 hours	LD50	<98 mg per kg of bodyweight
Isobornyl Methacryate	7534-94-3	Green algae	Experimental	72 hours	EC50	2.3 mg/l
Isobornyl Methacryate	7534-94-3	Water flea	Experimental	48 hours	EC50	1.1 mg/l
Isobornyl Methacryate	7534-94-3	Zebra Fish	Experimental	96 hours	LC50	1.8 mg/l
Isobornyl Methacryate	7534-94-3	Green algae	Experimental	72 hours	EC10	0.751 mg/l
Isobornyl Methacryate	7534-94-3	Water flea	Experimental	21 days	NOEC	0.233 mg/l
Methacrylic	79-41-4	Bacteria	Experimental	17 hours	EC50	270 mg/l

acid						
Methacrylic acid	79-41-4	Green algae	Experimental	72 hours	EC50	45 mg/l
Methacrylic acid	79-41-4	Water flea	Experimental	48 hours	EC50	>130 mg/l
Methacrylic acid	79-41-4	Green algae	Experimental	72 hours	NOEC	8.2 mg/l
Methacrylic acid	79-41-4	Water flea	Experimental	21 days	NOEC	53 mg/l
Polymeric Methacrylate (NJTS Reg. No. 04499600-7447)	Trade Secret	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Acrylonitrile-Butadiene Polymers	9003-18-3	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Lauryl Methacrylate	142-90-5	Zebra Fish	Analogous Compound	96 hours	No tox obs at lmt of water sol	>100
Lauryl Methacrylate	142-90-5	Green algae	Experimental	72 hours	No tox obs at lmt of water sol	>100
Lauryl Methacrylate	142-90-5	Green algae	Experimental	72 hours	No tox obs at lmt of water sol	>100
Lauryl Methacrylate	142-90-5	Water flea	Experimental	21 days	No tox obs at lmt of water sol	>100
Lauryl Methacrylate	142-90-5	Activated sludge	Analogous Compound	3 hours	EC50	>10,000
Filers-II (NJTSRN 04499600-7093)	Trade Secret	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Phosphate Esters of PPG Methacrylate	95175-93-2	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Benzenemethanaminium, N,N,N-tributyl-, chloride	23616-79-7	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Hexadecyl Methacrylate	2495-27-4	Activated sludge	Estimated	3 hours	EC10	>10,000 mg/l
Hexadecyl Methacrylate	2495-27-4	Green algae	Estimated	72 hours	No tox obs at lmt of water sol	>100 mg/l
Hexadecyl Methacrylate	2495-27-4	Zebra Fish	Estimated	96 hours	No tox obs at lmt of water sol	>100 mg/l
Hexadecyl Methacrylate	2495-27-4	Green algae	Estimated	72 hours	No tox obs at lmt of water sol	>100 mg/l
Hexadecyl Methacrylate	2495-27-4	Water flea	Estimated	21 days	No tox obs at lmt of water sol	>100 mg/l
Myristyl Methacrylate	2549-53-3	Activated sludge	Estimated	3 hours	EC50	>10,000 mg/l
Myristyl	2549-53-3	Green algae	Estimated	72 hours	No tox obs at	>100 mg/l

Methacrylate					lmt of water sol	
Myristyl Methacrylate	2549-53-3	Zebra Fish	Estimated	96 hours	No tox obs at lmt of water sol	>100 mg/l
Myristyl Methacrylate	2549-53-3	Green algae	Estimated	72 hours	No tox obs at lmt of water sol	>100 mg/l
Myristyl Methacrylate	2549-53-3	Water flea	Estimated	21 days	No tox obs at lmt of water sol	>100 mg/l
4-Methoxyphenol	150-76-5	Ciliated protozoa	Experimental	40 hours	IC50	171.4 mg/l
4-Methoxyphenol	150-76-5	Green algae	Experimental	72 hours	ErC50	54.7 mg/l
4-Methoxyphenol	150-76-5	Rainbow trout	Experimental	96 hours	LC50	28.5 mg/l
4-Methoxyphenol	150-76-5	Water flea	Experimental	48 hours	EC50	2.2 mg/l
4-Methoxyphenol	150-76-5	Green algae	Experimental	72 hours	NOEC	2.96 mg/l
4-Methoxyphenol	150-76-5	Water flea	Experimental	21 days	NOEC	0.68 mg/l
Carbon black	1333-86-4	Activated sludge	Experimental	3 hours	EC50	>=100 mg/l
Carbon black	1333-86-4	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Copper Naphthenates	1338-02-9	Green algae	Estimated	72 hours	ErC50	0.629 mg/l
Copper Naphthenates	1338-02-9	Water flea	Estimated	48 hours	EC50	0.0756 mg/l
Copper Naphthenates	1338-02-9	Zebra Fish	Estimated	96 hours	LC50	0.07 mg/l
Copper Naphthenates	1338-02-9	Fathead minnow	Estimated	32 days	EC10	0.0354 mg/l
Copper Naphthenates	1338-02-9	Green algae	Estimated	N/A	NOEC	0.132 mg/l
Copper Naphthenates	1338-02-9	Sediment Worm	Estimated	28 days	NOEC	110 mg/kg (Dry Weight)
Copper Naphthenates	1338-02-9	Water flea	Estimated	7 days	NOEC	0.02 mg/l
Copper Naphthenates	1338-02-9	Activated sludge	Estimated	N/A	EC50	42 mg/l
Copper Naphthenates	1338-02-9	Barley	Estimated	4 days	NOEC	96 mg/kg (Dry Weight)
Copper Naphthenates	1338-02-9	Redworm	Estimated	56 days	NOEC	60 mg/kg (Dry Weight)
Copper Naphthenates	1338-02-9	Soil microbes	Estimated	4 days	NOEC	72 mg/kg (Dry Weight)
Copper Naphthenates	1338-02-9	Springtail	Estimated	28 days	NOEC	167 mg/kg (Dry Weight)

12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Methyl	80-62-6	Experimental	14 days	BOD	94 %BOD/ThO	OECD 301C - MITI

Methacrylate		Biodegradation			D	test (I)
Fillers	12001-26-2	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Hydroxyethyl Methacrylate	868-77-9	Experimental Biodegradation	28 days	BOD	84 %BOD/COD	OECD 301D - Closed bottle test
Hydroxyethyl Methacrylate	868-77-9	Experimental Hydrolysis		Hydrolytic half-life basic pH	10.9 days (t 1/2)	OECD 111 Hydrolysis func of pH
Isobornyl Methacryate	7534-94-3	Experimental Biodegradation	28 days	CO2 evolution	70 %CO2 evolution/THCO2 evolution	OECD 310 CO2 Headspace
Methacrylic acid	79-41-4	Experimental Biodegradation	28 days	BOD	86 %BOD/ThOD	OECD 301D - Closed bottle test
Polymeric Methacrylate (NJTS Reg. No. 04499600-7447)	Trade Secret	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Acrylonitrile-Butadiene Polymers	9003-18-3	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Lauryl Methacrylate	142-90-5	Experimental Biodegradation	28 days	BOD	88.5 %BOD/ThOD	OECD 301C - MITI test (I)
Filers-II (NJTSRN 04499600-7093)	Trade Secret	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Phosphate Esters of PPG Methacrylate	95175-93-2	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Benzenemethanaminium, N,N,N-tributyl-, chloride	23616-79-7	Estimated Biodegradation	28 days	BOD	3.9 %BOD/ThOD	OECD 301C - MITI test (I)
Hexadecyl Methacrylate	2495-27-4	Estimated Biodegradation	28 days	BOD	87 %BOD/ThOD	OECD 301C - MITI test (I)
Myristyl Methacrylate	2549-53-3	Estimated Biodegradation	28 days	BOD	88.5 %BOD/ThOD	
4-Methoxyphenol	150-76-5	Experimental Biodegradation - Anaerobic	28 days	Percent degraded	>90 % degraded	
4-Methoxyphenol	150-76-5	Experimental Biodegradation	28 days	BOD	86 %BOD/ThOD	OECD 301C - MITI test (I)
Carbon black	1333-86-4	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Copper Naphthenates	1338-02-9	Data not availbl-insufficient	N/A	N/A	N/A	N/A

12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Methyl Methacrylate	80-62-6	Experimental Bioconcentration		Log Kow	1.38	OECD 107 log Kow shke flsk mtd
Fillers	12001-26-2	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Hydroxyethyl Methacrylate	868-77-9	Experimental Bioconcentration		Log Kow	0.42	OECD 107 log Kow shke flsk mtd
Isobornyl Methacryate	7534-94-3	Modeled Bioconcentration		Bioaccumulation factor	39	Catalogic™
Isobornyl Methacryate	7534-94-3	Experimental Bioconcentration		Log Kow	5.09	OECD 117 log Kow HPLC method
Methacrylic acid	79-41-4	Experimental Bioconcentration		Log Kow	0.93	
Polymeric Methacrylate (NJTS Reg. No. 04499600-7447)	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Acrylonitrile-Butadiene Polymers	9003-18-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Lauryl Methacrylate	142-90-5	Analogous Compound BCF - Other	56 hours	Bioaccumulation factor	37	OECD305-Bioconcentration
Lauryl Methacrylate	142-90-5	Analogous Compound Bioconcentration		Log Kow	7.08	OECD 117 log Kow HPLC method
Filers-II (NJTSRN 04499600-7093)	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Phosphate Esters of PPG Methacrylate	95175-93-2	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Benzenemethanaminium, N,N,N-tributyl-, chloride	23616-79-7	Estimated Bioconcentration		Bioaccumulation factor	31.7	
Hexadecyl Methacrylate	2495-27-4	Estimated BCF - Other	56 hours	Bioaccumulation factor	37	OECD305-Bioconcentration
Myristyl Methacrylate	2549-53-3	Estimated BCF - Other	56 hours	Bioaccumulation factor	37	OECD305-Bioconcentration
4-Methoxyphenol	150-76-5	Experimental Bioconcentrati		Log Kow	1.58	

		on				
Carbon black	1333-86-4	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Copper Naphthenates	1338-02-9	Analogous Compound BCF - Fish	42 days	Bioaccumulation factor	≤27	OECD305-Bioconcentration

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.

Incinerate uncured product in a permitted waste incineration facility. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. As a disposal alternative, utilize an acceptable permitted waste disposal facility. If no other disposal options are available, waste product that has been completely cured or polymerized may be placed in a landfill properly designed for industrial waste. 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.: UN2920
Proper Shipping Name: CORROSIVE LIQUID, FLAMMABLE, N.O.S. , (Methacrylic Acid, Methyl Methacrylate)
Class/Division: 8
Sub Risk: 3
Packing Group: II

Hazchem Code: -3W
IERG: 18

International Air Transport Association (IATA) - Air Transport
UN No.: UN2920
Proper Shipping Name: CORROSIVE LIQUID, FLAMMABLE, N.O.S. , (Methacrylic Acid, Methyl Methacrylate)
Class/Division: 8
Sub Risk: 3
Packing Group: II

International Maritime Dangerous Goods Code (IMDG) - Marine Transport
UN No.: UN2920
Proper Shipping Name: CORROSIVE LIQUID, FLAMMABLE, N.O.S. , (Methacrylic Acid, Methyl Methacrylate)
Class/Division: 8

Sub Risk: 3
Packing Group: II
Marine Pollutant: Not applicable.
Special Instructions: Limited quantity may apply

SECTION 15: Regulatory information

HSNO Approval number	HSR002663
Group standard name	Surface Coatings and Colourants (Flammable, Corrosive) 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	500 L (closed containers greater than 5 L) 1,500 L (closed containers up to and including 5 L) 250 L (open containers)
Hazardous atmosphere zone	100 L (closed containers) 25 L (decanting) 5 L (open occasionally) 1 L (open containers in continuous use)
Fire extinguishers	Two required for 500 L
Emergency response plan	NZ_100_L_OR_1000_L_OR_10000_L_3 100 L (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L (for Acute toxicity Category 4, Skin sensitisation Category 1, Respiratory sensitisation Category 1, Skin corrosion Category 1B, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L (for all other substances)
Secondary containment	NZ_100_L_OR_1000_L_OR_10000_L_3 100 L (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L (for Acute toxicity Category 4, Skin sensitisation Category 1, Respiratory sensitisation Category 1, Skin corrosion Category 1B, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L (for all other substances)
Tracking	Not required
Warning signage	NZ_100_L_OR_250_L_OR_1000_L_1 100 L (for Hazardous to the aquatic environment Category 1 substances); or 250 L (for Skin corrosion Category 1B substances); or 1 000 L (for all other substances)

SECTION 16: Other information

Revision information:
Initial issue.

Document group:	42-2612-2	**Version number:**	1.00
Issue Date:	18/07/2023	**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:	42-2614-8	**Version number:**	1.00
Issue Date:	17/05/2023	**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
3M™ Scotch-Weld™ Nylon Bonder Structural Adhesive DP8910NS, Part A

1.2. Recommended use and restrictions on use

Recommended use
Adhesive, Structural adhesive.

For Industrial or Professional use only

1.3. Supplier's details

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

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

SECTION 2: Hazard identification

Classified as hazardous in accordance with the relevant criteria of the HSNO Act 1996 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 sensitisation Category 1
Hazardous to the aquatic environment chronic Category 3

2.2. Label elements
SIGNAL WORD
Warning

Symbols:
Exclamation mark |

Pictograms

HAZARD STATEMENTS:

H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

Prevention

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280E	Wear protective gloves.

Response

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

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	% by Weight
Dibenzoate Propanol	27138-31-4	45 - 65
Acrylate Polymer	25101-28-4	10 - 30
Catalyst	Trade Secret	1 - 20
Organic Peroxide	13122-18-4	0.1 - 10

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

If exposed, flush eyes with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms develop, get medical attention.

If swallowed

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

4.2. Most important symptoms and effects, both acute and delayed
The most important symptoms and effects based on the CLP classification include:

4.3. Indication of any immediate medical attention and special treatment required
Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media
In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

5.2. Special hazards arising from the substance or mixture
None inherent in this product.

Hazardous Decomposition or By-Products

Substance	Condition
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.

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

5.4. Hazchem code: Not applicable.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions
Avoid release to the environment. 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
For industrial/occupational use only. Not for consumer sale or use. 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.)

7.2. Conditions for safe storage including any incompatibilities
Protect from sunlight. Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidising agents. Store in a dry place. Store away from amines.

7.3. Certified handler
Not required

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits
No occupational exposure limit values exist for any of the components listed in Section 3 of this Safety Data Sheet.

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
None required.

Skin/hand protection
Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.
Gloves made from the following material(s) are recommended: Butyl rubber.
Neoprene.
Nitrile rubber.

Respiratory protection
None required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Specific Physical Form:	Paste
Colour	Gray
Odour	Hydrocarbon
Odour threshold	*No data available.*
pH	*Not applicable.*
Melting point/Freezing point	*Not applicable.*
Boiling point/Initial boiling point/Boiling range	>=65.6 ºC
Flash point	> 93.3 ºC [*Test Method:*Closed Cup]
Evaporation rate	*No data available.*

Flammability (solid, gas)	Not applicable.
Flammable Limits(LEL)	*No data available.*
Flammable Limits(UEL)	*No data available.*
Vapour pressure	*No data available.*
Vapor Density and/or Relative Vapor Density	*No data available.*
Density	1.03 g/ml
Relative density	1.03 [*Ref Std:*WATER=1]
Water solubility	Nil
Solubility- non-water	*No data available.*
Partition coefficient: n-octanol/water	*No data available.*
Autoignition temperature	*No data available.*
Decomposition temperature	*No data available.*
Viscosity/Kinematic Viscosity	<=16,000 mPa-s
Volatile organic compounds (VOC)	60.5 g/l [*Test Method:*calculated SCAQMD rule 443.1] [*Details:*EU VOC content]
Percent volatile	< 6
VOC less H2O & exempt solvents	<=2.8 g/l [*Test Method:*calculated SCAQMD rule 443.1] [*Details:*when used as intended with Part B]
VOC less H2O & exempt solvents	60.5 g/l [*Test Method:*calculated SCAQMD rule 443.1] [*Details:*as supplied]
VOC less H2O & exempt solvents	<=0.3 % [*Test Method:*calculated SCAQMD rule 443.1] [*Details:*when used as intended with Part B]
Molecular weight	*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.
Sparks and/or flames.

10.5 Incompatible materials
Amines.
Strong acids.
Strong bases.
Strong oxidising 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
This product may have a characteristic odour; however, no adverse health effects are anticipated.

Skin contact
Contact with the skin during product use is not expected to result in significant irritation. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Eye contact
Contact with the eyes during product use is not expected to result in significant irritation.

Ingestion
May be harmful if swallowed.

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

Acute Toxicity

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE >2,000 - =5,000 mg/kg
Dibenzoate Propanol	Dermal	Rat	LD50 > 2,000 mg/kg
Dibenzoate Propanol	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 200 mg/l
Dibenzoate Propanol	Ingestion	Rat	LD50 3,295 mg/kg
Acrylate Polymer	Dermal		LD50 estimated to be > 5,000 mg/kg
Acrylate Polymer	Ingestion	Rat	LD50 > 5,000 mg/kg
Catalyst	Dermal	Professional judgement	LD50 estimated to be 2,000 - 5,000 mg/kg
Catalyst	Ingestion	Rat	LD50 > 2,000 mg/kg
Organic Peroxide	Dermal	Rat	LD50 > 2,000 mg/kg
Organic Peroxide	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 0.8 mg/l
Organic Peroxide	Ingestion	Rat	LD50 12,905 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Dibenzoate Propanol	Rabbit	No significant irritation
Organic Peroxide	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Dibenzoate Propanol	Rabbit	No significant irritation
Organic Peroxide	Rabbit	No significant irritation

Sensitisation:

Skin Sensitisation

Name	Species	Value
Dibenzoate Propanol	Guinea pig	Not classified
Catalyst	Mouse	Not classified
Organic Peroxide	Guinea pig	Sensitising

Respiratory Sensitisation

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

Germ Cell Mutagenicity

Name	Route	Value
Dibenzoate Propanol	In Vitro	Not mutagenic
Catalyst	In Vitro	Not mutagenic

Carcinogenicity

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

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Dibenzoate Propanol	Ingestion	Not classified for female reproduction	Rat	NOAEL 500 mg/kg/day	2 generation
Dibenzoate Propanol	Ingestion	Not classified for male reproduction	Rat	NOAEL 400 mg/kg/day	2 generation
Dibenzoate Propanol	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	during gestation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Catalyst	Ingestion	nervous system	Not classified	Rat	NOAEL 2,000 mg/kg	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Dibenzoate Propanol	Ingestion	hematopoietic system | liver	Not classified	Rat	NOAEL 2,500 mg/kg/day	90 days

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 (HSNO 9.1D Aquatic toxicity)
Chronic Aquatic Toxicity: Category 3 (HSNO 9.1C Aquatic toxicity)

No product test data available.

Material	CAS Number	Organism	Type	Exposure	Test endpoint	Test result
Dibenzoate Propanol	27138-31-4	Fathead minnow	Experimental	96 hours	LC50	3.7 mg/l
Dibenzoate Propanol	27138-31-4	Green algae	Experimental	72 hours	EL50	4.9 mg/l
Dibenzoate Propanol	27138-31-4	Water flea	Experimental	48 hours	EL50	19.31 mg/l
Dibenzoate Propanol	27138-31-4	Green algae	Experimental	72 hours	EC10	0.89 mg/l
Acrylate Polymer	25101-28-4	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Catalyst	Trade Secret	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Organic Peroxide	13122-18-4	Activated sludge	Experimental	3 hours	NOEC	26.3 mg/l
Organic Peroxide	13122-18-4	Green algae	Experimental	N/A	EC50	0.51 mg/l
Organic Peroxide	13122-18-4	Rainbow trout	Experimental	N/A	LC50	7 mg/l
Organic Peroxide	13122-18-4	Water flea	Experimental	N/A	EC50	>100 mg/l
Organic Peroxide	13122-18-4	Green algae	Experimental	N/A	NOEC	0.125 mg/l

12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Dibenzoate Propanol	27138-31-4	Experimental Biodegradation	28 days	CO2 evolution	85 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
Acrylate	25101-28-4	Data not	N/A	N/A	N/A	N/A

Polymer		availbl-insufficient				
Catalyst	Trade Secret	Experimental Biodegradation	28 days	CO2 evolution	29.1 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
Catalyst	Trade Secret	Estimated Photolysis		Photolytic half-life (in air)	1.48 days (t 1/2)	
Organic Peroxide	13122-18-4	Estimated Biodegradation	28	BOD	14 %BOD/ThOD	OECD 301C - MITI test (I)

12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Dibenzoate Propanol	27138-31-4	Modeled Bioconcentration		Bioaccumulation factor	8	Catalogic™
Acrylate Polymer	25101-28-4	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Catalyst	Trade Secret	Experimental Bioconcentration		Log Kow	2.57	
Organic Peroxide	13122-18-4	Estimated Bioconcentration		Bioaccumulation factor	363	

12.4. Mobility in soil
Please contact manufacturer for more details

12.5 Other adverse effects
No information available.

SECTION 13: Disposal considerations

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

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

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

SECTION 14: Transport Information

New Zealand Land Transport Rule: Dangerous Goods - Road/Rail Transport
UN No.: Not applicable.
Proper Shipping Name: Not applicable.
Class/Division: Not applicable.

Sub Risk: Not applicable.
Packing Group: Not applicable.

Hazchem Code: Not applicable.
IERG: Not applicable.

International Air Transport Association (IATA) - Air Transport
UN No.: Not applicable.
Proper Shipping Name: Not applicable.
Class/Division: Not applicable.
Sub Risk: Not applicable.
Packing Group: Not applicable.

International Maritime Dangerous Goods Code (IMDG) - Marine Transport
UN No.: Not applicable.
Proper Shipping Name: Not applicable.
Class/Division: Not applicable.
Sub Risk: Not applicable.
Packing Group: Not applicable.
Marine Pollutant: Not applicable.

SECTION 15: Regulatory information

HSNO Approval number	HSR002670
Group standard name	Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 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:	42-2614-8	**Version number:**	1.00
Issue Date:	17/05/2023	**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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