



## Safety Data Sheet

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<b>Issue Date:</b>	24/07/2023	<b>Supersedes date:</b>	17/11/2019

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™ Epoxy Potting Compound/Adhesive DP270 Clear

#### Product Identification Numbers

62-3262-1436-8

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

##### Recommended use

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:**

11-2356-1, 11-2357-9

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:

Complete document review.

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<b>Document group:</b>	11-2356-1	<b>Version number:</b>	2.00
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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™ Epoxy Potting Compound/Adhesive DP270 Clear, Part B

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

##### Recommended use

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

Eye irritation: Category 2

Skin sensitisation: Category 1

Reproductive Toxicity: Category 1

Hazardous to the aquatic environment chronic: Category 2

#### 2.2. Label elements

##### SIGNAL WORD

Danger

##### Symbols:

Exclamation mark |Health Hazard |Environment |

**Pictograms**



**HAZARD STATEMENTS:**

- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.
- H360 May damage 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 thoroughly after handling.
- 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.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308 + P313 IF exposed or concerned: Get medical advice/attention.
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337 + P313 IF eye irritation persists: 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 in accordance with applicable local/regional/national/international regulations.

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

Ingredient	CAS Nbr	% by Weight
Epoxy Resin	25068-38-6	90 - 99
Hydrocarbon resin	9003-53-6	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**

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, 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**

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**

- Aldehydes.
- Hydrocarbons.
- Carbon monoxide.
- Carbon dioxide.
- Hydrogen Chloride
- Ketones.
- Toxic vapour, gas, particulate.

**Condition**

- During combustion.
- During combustion.
- During combustion.
- During combustion.
- During combustion.
- During combustion.
- During combustion.

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

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

**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. 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. 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. 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. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (eg. gloves, respirators...) as required.

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

Store away from acids. Store away from oxidising agents.

### 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

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

Safety glasses with side shields.

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**

<b>Physical state</b>	Liquid.
<b>Colour</b>	Colourless
<b>Odour</b>	Very Mild Odour
<b>Odour threshold</b>	<i>No data available.</i>
<b>pH</b>	<i>Not applicable.</i>
<b>Melting point/Freezing point</b>	<i>No data available.</i>
<b>Boiling point/Initial boiling point/Boiling range</b>	>=148.9 °C
<b>Flash point</b>	>=148.9 °C [ <i>Test Method:</i> Closed Cup]
<b>Evaporation rate</b>	<i>Not applicable.</i>
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Flammable Limits(LEL)</b>	<i>No data available.</i>
<b>Flammable Limits(UEL)</b>	<i>No data available.</i>
<b>Vapour pressure</b>	<=86,659.3 Pa [ <i>@ 55 °C</i> ]
<b>Vapor Density and/or Relative Vapor Density</b>	<i>Not applicable.</i>
<b>Density</b>	1.15 g/ml
<b>Relative density</b>	1.15 [ <i>Ref Std:</i> WATER=1]
<b>Water solubility</b>	Nil
<b>Solubility- non-water</b>	<i>No data available.</i>
<b>Partition coefficient: n-octanol/water</b>	<i>No data available.</i>
<b>Autoignition temperature</b>	<i>No data available.</i>
<b>Decomposition temperature</b>	<i>No data available.</i>
<b>Viscosity/Kinematic Viscosity</b>	13,000 - 16,000 mPa-s [ <i>Details:</i> CONDITIONS: ( <i>@ Room Temperature</i> )]
<b>Volatile organic compounds (VOC)</b>	<i>No data available.</i>
<b>Percent volatile</b>	<i>No data available.</i>
<b>VOC less H2O &amp; exempt solvents</b>	< 10 g/l [ <i>Test Method:</i> tested per EPA method 24] [ <i>Details:</i> when used as intended with Part A]
<b>VOC less H2O &amp; exempt solvents</b>	0 g/l [ <i>Test Method:</i> calculated SCAQMD rule 443.1] [ <i>Details:</i> as supplied]

VOC less H <sub>2</sub> O & exempt solvents	<= 1 % [Test Method: tested per EPA method 24] [Details: when used as intended with Part A]
Molecular weight	No data available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

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

### 10.2 Chemical stability

Stable.

### 10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

### 10.4 Conditions to avoid

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.

### 10.5 Incompatible materials

Strong acids.

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

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

#### Skin contact

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

#### Eye contact

Moderate eye irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy 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
Epoxy Resin	Dermal	Rat	LD50 > 1,600 mg/kg
Epoxy Resin	Ingestion	Rat	LD50 > 1,000 mg/kg

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

Name	Species	Value
Epoxy Resin	Rabbit	Mild irritant

**Serious Eye Damage/Irritation**

Name	Species	Value
Epoxy Resin	Rabbit	Moderate irritant

**Sensitisation:****Skin Sensitisation**

Name	Species	Value
Epoxy Resin	Human and animal	Sensitising

**Respiratory Sensitisation**

Name	Species	Value
Epoxy Resin	Human	Not classified

**Germ Cell Mutagenicity**

Name	Route	Value
Epoxy Resin	In vivo	Not mutagenic
Epoxy Resin	In Vitro	Some positive data exist, but the data are not sufficient for classification

**Carcinogenicity**

Name	Route	Species	Value
Epoxy Resin	Dermal	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
Epoxy Resin	Ingestion	Not classified for female reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
Epoxy Resin	Ingestion	Not classified for male reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
Epoxy Resin	Dermal	Not classified for development	Rabbit	NOAEL 300 mg/kg/day	during organogenesis
Epoxy Resin	Ingestion	Not classified for development	Rat	NOAEL 750 mg/kg/day	2 generation
Hydrocarbon resin	Ingestion	Toxic to female reproduction	Rat	NOAEL 5 mg/kg/day	premating into lactation

**Target Organ(s)****Specific Target Organ Toxicity - single exposure**

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

**Specific Target Organ Toxicity - repeated exposure**

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Epoxy Resin	Dermal	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	2 years
Epoxy Resin	Dermal	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
Epoxy Resin	Ingestion	auditory system   heart   endocrine system   hematopoietic system   liver   eyes   kidney and/or bladder	Not classified	Rat	NOAEL 1,000 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 2

No product test data available.

Material	CAS Number	Organism	Type	Exposure	Test endpoint	Test result
Epoxy Resin	25068-38-6	Activated	Estimated	3 hours	IC50	>100 mg/l

		sludge				
Epoxy Resin	25068-38-6	Green algae	Estimated	72 hours	EC50	>11 mg/l
Epoxy Resin	25068-38-6	Rainbow trout	Estimated	96 hours	LC50	2 mg/l
Epoxy Resin	25068-38-6	Water flea	Estimated	48 hours	EC50	1.8 mg/l
Epoxy Resin	25068-38-6	Green algae	Estimated	72 hours	NOEC	4.2 mg/l
Epoxy Resin	25068-38-6	Water flea	Estimated	21 days	NOEC	0.3 mg/l
Hydrocarbon resin	9003-53-6	N/A	Data not available or insufficient for classification	N/A	N/A	N/A

**12.2. Persistence and degradability**

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Epoxy Resin	25068-38-6	Estimated Biodegradation	28 days	BOD	5 %BOD/COD	OECD 301F - Manometric respirometry
Epoxy Resin	25068-38-6	Estimated Hydrolysis		Hydrolytic half-life	117 hours (t 1/2)	
Hydrocarbon resin	9003-53-6	Data not available or insufficient	N/A	N/A	N/A	N/A

**12.3 : Bioaccumulative potential**

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Epoxy Resin	25068-38-6	Estimated Bioconcentration		Log Kow	3.242	
Hydrocarbon resin	9003-53-6	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

**12.4. Mobility in soil**

Please contact manufacturer for more details

**12.5 Other adverse effects**

No information available.

**SECTION 13: Disposal considerations**

**13.1. Disposal methods**

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. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. 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. , ( Epoxy Resin )

**Class/Division:** 9

**Sub Risk:** Not applicable.

**Packing Group:** III

**Special Instructions:** Not restricted, environmentally hazardous substance exception.

**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. , ( Epoxy Resin )

**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. , ( Epoxy Resin )

**Class/Division:** 9

**Sub Risk:** Not applicable.

**Packing Group:** III

**Marine Pollutant:** Epoxy Resin

**Special Instructions:** Limited quantity may apply

## 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:**  
Complete document review.

<b>Document group:</b>	11-2356-1	<b>Version number:</b>	2.00
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**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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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™ Epoxy Potting Compound/Adhesive DP270 Clear, 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

Acute oral toxicity: Category 4  
Acute dermal toxicity: Category 3  
Skin irritation: Category 2  
Eye irritation: Category 2  
Reproductive Toxicity: Category 2  
Hazardous to the aquatic environment acute: Category 1  
Hazardous to the aquatic environment chronic: Category 1

#### 2.2. Label elements

**SIGNAL WORD**

Danger

**Symbols:**

Skull and crossbones |Health Hazard |

**Pictograms**



**HAZARD STATEMENTS:**

- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H361 Suspected of damaging fertility or the unborn child.
  
- H410 Very 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.
- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- 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.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308 + P313 IF exposed or concerned: Get medical advice/attention.
- P312 Call a POISON CENTRE or doctor/physician if you feel unwell.
- P330 Rinse mouth.
- P332 + P313 If skin irritation occurs: Get medical advice/attention.
- P337 + P313 IF eye irritation persists: Get medical advice/attention.
- P361 + P364 Take off immediately all contaminated clothing and wash it before reuse.
- 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 in accordance with applicable local/regional/national/international regulations.

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

Ingredient	CAS Nbr	% by Weight
4-Nonylphenol, branched	84852-15-3	40 - 60

4,4'-Methylenebis(2-methylcyclohexylamine)	6864-37-5	15 - 40
2-Nonylphenol, branched	91672-41-2	< 10
Benzyl Alcohol	100-51-6	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. Get medical attention. Wash clothing before reuse.

#### **Eye contact**

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. 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**

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**

Amine compounds.  
Carbon monoxide.  
Carbon dioxide.  
Oxides of nitrogen.  
Toxic vapour, gas, particulate.

#### **Condition**

During combustion.  
During combustion.  
During combustion.  
During combustion.  
During combustion.

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

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

### **5.4. Hazchem code: 2X**

## **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**

Contain spill. 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 metal container approved for use in transportation by appropriate authorities. The container must be lined with polyethylene plastic or contain a plastic drum liner made of polyethylene. Clean up residue with 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. 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. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (eg. gloves, respirators...) as required.

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

Store away from acids. Store away from oxidising agents.

**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.

<b>Ingredient</b>	<b>CAS Nbr</b>	<b>Agency</b>	<b>Limit type</b>	<b>Additional comments</b>
Benzyl Alcohol	100-51-6	AIHA	TWA:44.2 mg/m <sup>3</sup> (10 ppm)	

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<sup>3</sup>: milligrams per cubic metre

CEIL: Ceiling

**8.2. Exposure controls**

**8.2.1. Engineering controls**

No engineering controls required.

**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:

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

**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

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**

<b>Physical state</b>	Liquid.
<b>Colour</b>	Colourless
<b>Odour</b>	Very Mild Odour, Pungent Odour
<b>Odour threshold</b>	<i>No data available.</i>
<b>pH</b>	<i>Not applicable.</i>
<b>Melting point/Freezing point</b>	<i>No data available.</i>
<b>Boiling point/Initial boiling point/Boiling range</b>	205 °C [ <i>Details:CONDITIONS: @ 760mm Hg (benzyl alcohol)</i> ]
<b>Flash point</b>	> 115.6 °C [ <i>Test Method:Closed Cup</i> ]
<b>Evaporation rate</b>	<i>No data available.</i>
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Flammable Limits(LEL)</b>	<i>No data available.</i>
<b>Flammable Limits(UEL)</b>	<i>No data available.</i>
<b>Vapour pressure</b>	13.3 Pa [ <i>Details:CONDITIONS: @ 86F (30C); 13.3mm Hg @ 212F (100C).</i> ]
<b>Vapor Density and/or Relative Vapor Density</b>	3.72 [ <i>Ref Std:AIR=1</i> ]
<b>Density</b>	1 g/ml
<b>Relative density</b>	1 [ <i>Ref Std:WATER=1</i> ]

<b>Water solubility</b>	Slight (less than 10%)
<b>Solubility- non-water</b>	<i>No data available.</i>
<b>Partition coefficient: n-octanol/water</b>	<i>No data available.</i>
<b>Autoignition temperature</b>	<i>No data available.</i>
<b>Decomposition temperature</b>	<i>No data available.</i>
<b>Viscosity/Kinematic Viscosity</b>	12,000 - 15,000 mPa-s [ <i>Details:CONDITIONS: (@ Room Temperature)</i> ]
<b>Volatile organic compounds (VOC)</b>	<i>No data available.</i>
<b>Percent volatile</b>	<i>No data available.</i>
<b>VOC less H2O &amp; exempt solvents</b>	<= 10 g/l [ <i>Test Method:tested per EPA method 24</i> ] [ <i>Details:when used as intended with Part B</i> ]
<b>VOC less H2O &amp; exempt solvents</b>	<= 1 % [ <i>Test Method:tested per EPA method 24</i> ] [ <i>Details:when used as intended with Part B</i> ]
<b>VOC less H2O &amp; exempt solvents</b>	<= 90 g/l [ <i>Test Method:calculated SCAQMD rule 443.1</i> ] [ <i>Details:as supplied</i> ]
<b>Molecular weight</b>	<i>No data available.</i>

## 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 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.

### 10.5 Incompatible materials

Strong acids.

Strong oxidising agents.

### 10.6 Hazardous decomposition products

#### Substance

None known.

#### Condition

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**

Toxic in contact with skin.

Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain.

**Eye contact**

Severe eye irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired 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:**

**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	Dermal		No data available; calculated ATE >200 - =1,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE >300 - =2,000 mg/kg
4-Nonylphenol, branched	Dermal	Rabbit	LD50 > 2,000 mg/kg
4-Nonylphenol, branched	Ingestion	Rat	LD50 1,531 mg/kg
4,4'-Methylenebis(2-methylcyclohexylamine)	Dermal	Rabbit	LD50 > 200 mg/kg
4,4'-Methylenebis(2-methylcyclohexylamine)	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.42 mg/l
4,4'-Methylenebis(2-methylcyclohexylamine)	Ingestion	Rat	LD50 > 320 mg/kg
Benzyl Alcohol	Inhalation-Dust/Mist (4 hours)	Rat	LC50 8.8 mg/l
Benzyl Alcohol	Ingestion	Rat	LD50 1,230 mg/kg

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

Name	Species	Value
Overall product	In vitro data	Irritant
4-Nonylphenol, branched	Rabbit	Corrosive
4,4'-Methylenebis(2-methylcyclohexylamine)	Rabbit	Corrosive
Benzyl Alcohol	Multiple animal species	Mild irritant

**Serious Eye Damage/Irritation**

Name	Species	Value
Overall product	similar health hazards	Severe irritant
4-Nonylphenol, branched	Rabbit	Corrosive
4,4'-Methylenebis(2-methylcyclohexylamine)	Rabbit	Corrosive
Benzyl Alcohol	Rabbit	Severe irritant

**Sensitisation:**

**Skin Sensitisation**

Name	Species	Value
4-Nonylphenol, branched	Guinea pig	Not classified
4,4'-Methylenebis(2-methylcyclohexylamine)	Guinea pig	Not classified
Benzyl Alcohol	Human and animal	Not classified

**Respiratory Sensitisation**

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

**Germ Cell Mutagenicity**

Name	Route	Value
4-Nonylphenol, branched	In Vitro	Not mutagenic
4-Nonylphenol, branched	In vivo	Not mutagenic
4,4'-Methylenebis(2-methylcyclohexylamine)	In Vitro	Not mutagenic
Benzyl Alcohol	In vivo	Not mutagenic
Benzyl Alcohol	In Vitro	Some positive data exist, but the data are not sufficient for classification

**Carcinogenicity**

Name	Route	Species	Value
Benzyl Alcohol	Ingestion	Multiple animal species	Not carcinogenic

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test result	Exposure Duration
4-Nonylphenol, branched	Ingestion	Not classified for male reproduction	Rat	NOAEL 400 mg/kg/day	28 days
4-Nonylphenol, branched	Ingestion	Toxic to female reproduction	official classification	NOAEL Not available	
4-Nonylphenol, branched	Ingestion	Toxic to development	official classification	NOAEL Not available	
4,4'-Methylenebis(2-methylcyclohexylamine)	Ingestion	Not classified for male reproduction	Rat	NOAEL 12 mg/kg/day	3 months
4,4'-Methylenebis(2-methylcyclohexylamine)	Inhalation	Not classified for male reproduction	Rat	NOAEL 0.048 mg/l	3 months
4,4'-Methylenebis(2-methylcyclohexylamine)	Ingestion	Not classified for development	Rat	NOAEL 45 mg/kg/day	during gestation
Benzyl Alcohol	Ingestion	Not classified for development	Mouse	NOAEL 550	during

**3M™ Scotch-Weld™ Epoxy Potting Compound/Adhesive DP270 Clear, Part A**

				mg/kg/day	organogenesis
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**Lactation**

Name	Route	Species	Value
4-Nonylphenol, branched	Ingestion	Rat	Not classified for effects on or via lactation

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
4,4'-Methylenebis(2-methylcyclohexylamine)	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL Not available	
Benzyl Alcohol	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL Not available	
Benzyl Alcohol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
Benzyl Alcohol	Ingestion	central nervous system depression	May cause drowsiness or dizziness		NOAEL Not available	

**Specific Target Organ Toxicity - repeated exposure**

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
4-Nonylphenol, branched	Ingestion	endocrine system   hematopoietic system   liver	Not classified	Rat	NOAEL 400 mg/kg/day	28 days
4-Nonylphenol, branched	Ingestion	kidney and/or bladder   heart   bone, teeth, nails, and/or hair   immune system   muscles   nervous system   respiratory system	Not classified	Rat	NOAEL 150 mg/kg/day	90 days
4,4'-Methylenebis(2-methylcyclohexylamine)	Inhalation	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 0.012 mg/l	3 months
4,4'-Methylenebis(2-methylcyclohexylamine)	Inhalation	endocrine system   liver   kidney and/or bladder   respiratory system	Not classified	Rat	NOAEL 0.048 mg/l	3 months
4,4'-Methylenebis(2-methylcyclohexylamine)	Inhalation	skin	Not classified	Human	NOAEL Not available	occupational exposure
4,4'-Methylenebis(2-methylcyclohexylamine)	Ingestion	heart	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 2.5 mg/kg/day	3 months
4,4'-Methylenebis(2-methylcyclohexylamine)	Ingestion	hematopoietic system   liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 12 mg/kg/day	3 months
4,4'-Methylenebis(2-methylcyclohexylamine)	Ingestion	endocrine system   kidney and/or bladder	Not classified	Rat	NOAEL 60 mg/kg/day	3 months
Benzyl Alcohol	Ingestion	endocrine system   muscles   kidney and/or bladder	Not classified	Rat	NOAEL 400 mg/kg/day	13 weeks
Benzyl Alcohol	Ingestion	nervous system   respiratory system	Not classified	Mouse	NOAEL 645 mg/kg/day	8 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.

Hazardous to the aquatic environment acute: Category 1

Hazardous to the aquatic environment chronic: Category 1

#### Ecotoxic to soil environment

Hazardous to soil organisms

#### Ecotoxic to terrestrial vertebrates

Hazardous to terrestrial vertebrates

No product test data available.

Material	CAS Number	Organism	Type	Exposure	Test endpoint	Test result
4-Nonylphenol, branched	84852-15-3	Fish	Analogous Compound	96 hours	LC50	0.05 mg/l
4-Nonylphenol, branched	84852-15-3	Green algae	Analogous Compound	72 hours	ErC50	0.323 mg/l
4-Nonylphenol, branched	84852-15-3	Invertebrate	Analogous Compound	96 hours	LC50	0.038 mg/l
4-Nonylphenol, branched	84852-15-3	Diatom	Experimental	96 hours	EC50	0.027 mg/l
4-Nonylphenol, branched	84852-15-3	Fish	Experimental	96 hours	LC50	0.017 mg/l
4-Nonylphenol, branched	84852-15-3	Water flea	Experimental	48 hours	LC50	0.02 mg/l
4-Nonylphenol, branched	84852-15-3	Green algae	Analogous Compound	72 hours	ErC10	0.0251 mg/l
4-Nonylphenol, branched	84852-15-3	Midge	Analogous Compound	28 days	EC10	203 mg/kg (Dry Weight)
4-Nonylphenol, branched	84852-15-3	Rainbow trout	Analogous Compound	91 days	NOEC	0.006 mg/l
4-Nonylphenol, branched	84852-15-3	Water flea	Analogous Compound	21 days	NOEC	0.024 mg/l
4-Nonylphenol, branched	84852-15-3	Mysid Shrimp	Experimental	28 days	NOEC	0.0039 mg/l
4-Nonylphenol, branched	84852-15-3	Activated sludge	Analogous Compound	3 hours	EC50	950 mg/l
4-Nonylphenol, branched	84852-15-3	Japanese quail	Analogous Compound	147 days	NOEC	<=10 ppm diet
4-Nonylphenol, branched	84852-15-3	Lettuce	Analogous Compound	14 days	EC50	625 mg/kg (Dry Weight)
4-Nonylphenol, branched	84852-15-3	Soil microbes	Analogous Compound	40 days	NOEC	100 mg/kg (Dry Weight)

4-Nonylphenol, branched	84852-15-3	Springtail	Analogous Compound	21 days	EC10	23 mg/kg (Dry Weight)
4-Nonylphenol, branched	84852-15-3	Worm	Analogous Compound	14 days	LC50	88.6 mg/kg (Wet Weight)
4-Nonylphenol, branched	84852-15-3	Worm	Analogous Compound	28 days	NOEC	24 mg/kg (Dry Weight)
4,4'-Methylenebis(2-methylcyclohexylamine)	6864-37-5	Activated sludge	Experimental	30 minutes	EC20	160 mg/l
4,4'-Methylenebis(2-methylcyclohexylamine)	6864-37-5	Bacteria	Experimental	17 hours	EC50	96 mg/l
4,4'-Methylenebis(2-methylcyclohexylamine)	6864-37-5	Green algae	Experimental	72 hours	ErC50	7.9 mg/l
4,4'-Methylenebis(2-methylcyclohexylamine)	6864-37-5	Medaka	Experimental	96 hours	LC50	22 mg/l
4,4'-Methylenebis(2-methylcyclohexylamine)	6864-37-5	Water flea	Experimental	48 hours	EC50	4.6 mg/l
4,4'-Methylenebis(2-methylcyclohexylamine)	6864-37-5	Green algae	Experimental	72 hours	NOEC	0.13 mg/l
4,4'-Methylenebis(2-methylcyclohexylamine)	6864-37-5	Water flea	Experimental	21 days	NOEC	4 mg/l
2-Nonylphenol, branched	91672-41-2	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Benzyl Alcohol	100-51-6	Activated sludge	Experimental	3 hours	EC50	1,385 mg/l
Benzyl Alcohol	100-51-6	Fathead minnow	Experimental	96 hours	LC50	460 mg/l
Benzyl Alcohol	100-51-6	Green algae	Experimental	72 hours	ErC50	770 mg/l
Benzyl Alcohol	100-51-6	Water flea	Experimental	48 hours	EC50	230 mg/l
Benzyl Alcohol	100-51-6	Green algae	Experimental	72 hours	NOEC	310 mg/l
Benzyl Alcohol	100-51-6	Water flea	Experimental	21 days	NOEC	51 mg/l

**12.2. Persistence and degradability**



Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
4-Nonylphenol, branched	84852-15-3	Experimental Biodegradation	28 days	CO2 evolution	53 %CO2 evolution/THC O2 evolution (does not pass 10-day window)	OECD 301B - Modified sturm or CO2
4,4'-Methylenebis(2-methylcyclohexylamine)	6864-37-5	Experimental Biodegradation	28 days	BOD	0 %BOD/ThOD	OECD 301C - MITI test (I)
4,4'-Methylenebis(2-methylcyclohexylamine)	6864-37-5	Experimental Biodegradation	28 days	Dissolv. Organic Carbon Deplet	<1 % removal of DOC	OECD 302B Zahn-Wellens/EVPA
2-Nonylphenol, branched	91672-41-2	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Benzyl Alcohol	100-51-6	Experimental Biodegradation	14 days	BOD	94 %BOD/ThOD	OECD 301C - MITI test (I)

### 12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
4-Nonylphenol, branched	84852-15-3	Experimental BCF - Fish	28 days	Bioaccumulation factor	984	
4-Nonylphenol, branched	84852-15-3	Experimental BCF - Fish	16 days	Bioaccumulation factor	1300	similar to OECD 305
4-Nonylphenol, branched	84852-15-3	Experimental Bioconcentration		Log Kow	5.4	OECD 117 log Kow HPLC method
4,4'-Methylenebis(2-methylcyclohexylamine)	6864-37-5	Experimental BCF - Fish	60 days	Bioaccumulation factor	60	OECD305-Bioconcentration
4,4'-Methylenebis(2-methylcyclohexylamine)	6864-37-5	Experimental Bioconcentration		Log Kow	2.51	OECD 107 log Kow shke flsk mtd
2-Nonylphenol, branched	91672-41-2	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Benzyl Alcohol	100-51-6	Experimental Bioconcentration		Log Kow	1.10	

### 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.: UN2810

**Proper Shipping Name:** TOXIC LIQUID, ORGANIC, N.O.S. , ( 4,4-Methylenebis(2-Methylcyclohexylamine) )

**Class/Division:** 6.1

**Sub Risk:** Not applicable.

**Packing Group:** III

**Special Instructions:** Limited quantity may apply

**Hazchem Code:** 2X

**IERG:** 36

### International Air Transport Association (IATA) - Air Transport

UN No.: UN2810

**Proper Shipping Name:** TOXIC LIQUID, ORGANIC, N.O.S. , ( 4,4-Methylenebis(2-Methylcyclohexylamine) )

**Class/Division:** 6.1

**Sub Risk:** Not applicable.

**Packing Group:** III

### International Maritime Dangerous Goods Code (IMDG) - Marine Transport

UN No.: UN2810

**Proper Shipping Name:** TOXIC LIQUID, ORGANIC, N.O.S. , ( 4,4-Methylenebis(2-Methylcyclohexylamine) )

**Class/Division:** 6.1

**Sub Risk:** Not applicable.

**Packing Group:** III

**Marine Pollutant:** Not applicable.

**Special Instructions:** Limited quantity may apply

## SECTION 15: Regulatory information

HSNO Approval number HSR002675

Group standard name Surface Coatings and Colourants (Acutely Toxic) 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
Secondary containment	100 L or 100 kg
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 all other substances)

**SECTION 16: Other information**

**Revision information:**

Complete document review.

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**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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