

## Safety Data Sheet – Epoxy Resin Part A

**1. Identification****Product Name:** Epoxy Resin Part A**UN Number:** 3082**Recommended Use:** Polymer Resin Liquid for moulding or casting applications.**Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane)**NZ Supplier:****Name:** Artmore Ltd**Address:** 32D Andromeda Crescent  
East Tamaki  
Auckland 2013**Phone:** 09 273 4032**Email:** info@resinart.nz**Website:** www.resinart.nz**Emergency Contacts:** Emergency Services (Fire, Ambulance, Police) – Dial 111

National Poisons Information Centre – 0800 764 766 (0800 POISON)

Company Contact – 09 273 4032

**2. Hazard Identification****Statement of Hazardous Nature:**

This preparation is classified as a health or environmental hazard according to the Hazardous Substances (Hazard Classification) Notice 2020.

Classified as a Dangerous Good according to NZS 5433.

**Hazard Classification:**

Acute dermal toxicity category 4

Eye irritation category 2

Skin sensitisation category 1

Specific target organ toxicity - repeated exposure category 2

Hazardous to the aquatic environment chronic category 2

**Prevention Statements:**

Wash hands thoroughly after handling.

Wear eye protection/face protection.

Avoid breathing vapours or fumes.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves.

Do not breathe vapours or fumes.

Avoid release to the environment.

**Hazard Statements:****Warning**

Harmful in contact with skin

Causes serious eye irritation

May cause an allergic skin reaction

May cause damage to organs through prolonged or repeated exposure

Toxic to aquatic life with long lasting effect

**3. Composition & Information on Ingredients**

Ingredient	CAS Number	Concentration (%)
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane	25068-38-6	80 - 90
Benzenemethanol	100-51-6	9 - 19
Benzoic acid, 4-(methylphenylamino)methyleneamino-, ethyl ester	57834-33-0	1

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## 4. First Aid Measures

If medical advice is needed, have product container or label at hand.

New Zealand Poisons & Hazardous Chemicals National Information Centre  
phone 0800 POISON – 0800 764 766

**Skin:** IF ON SKIN: Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.

**Eyes:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Ingestion:** IF SWALLOWED: Provide the victim with water. Immediately call a POISON CENTER or doctor if you feel unwell.

**Inhalation:** IF INHALED: Seek fresh air if required. Seek medical attention if you start to feel unwell.

**Advice to Doctor:** Treat symptomatically.

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## 5. Fire Fighting Measures

**Flammability:** Not flammable or combustible

**Extinguishing media:** Use appropriate for surrounding materials. Prevent contamination of drains or water ways.

**Hazardous Combustion products:** Carbon and nitrogen oxides may be formed.

**Fire Fighting Instructions:** No additional information available.

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## 6. Accidental Release Measures

### Spills:

Implement appropriate personal protection equipment (PPE), see Section 8. Absorb spill with sand or similar. Collect and place in sealable containers for disposal.

Prevent spill from entering drain or waterways. Contain spillage, collect, and place in suitable containers for reuse or disposal. If water is used to clean up residual material, ensure the water is recovered and neutralised before disposal. If product is spilt into a waterway notify the Regional Council.

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## 7. Handling & Storage

### Safe Handling

Before use carefully read the product label.  
Use of safe work practices are recommended to avoid eye or skin contact.  
Observe good personal hygiene, including washing hands before eating.  
Ensure good ventilation/exhaustion during product use.  
Prohibit eating, drinking and smoking in work areas.

### Storage

Store in cool, dry area, removed from foodstuffs.  
Ensure containers are labelled, protected from physical damage and sealed when not in use.

Certified Handler: Not required

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## 8. Exposure Controls & Personal Protection

### Exposure Standards

**Workplace Exposure Standards (WES):** No WES exposure indices have been set for this product or its constituents.

**Biological Exposure Indices (BEI):** No biological exposure indices have been set for this product.

### Engineering Controls

**Ventilation:** Ensure adequate ventilation – optimise natural airflows.

### Personal Protection (PPE)

Wear protective gloves/clothing and eye/face protection.  
Contaminated work clothing should not be allowed out of the workplace

**Eyes/Face:** Splash resistant safety glasses with side shields or safety goggles (AS/NZS 1337)

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**Skin:** Use butyl rubber or nitrile rubber gloves. The glove material must be impermeable and resistance for the product mixing and preparation (in accordance with AS/NZS 2161). Consult your glove supplier for specific product information.

**Respiratory:** Not required under the recommended storage and handling conditions. In case of inadequate ventilation, wear an approved respirator with VOC filters. Respiratory protection should comply with AS/NZS 1716 and maintained with AS/NZS 1715.

## 9. Physical & Chemical Properties

**Appearance:** Viscous Clear Liquid

**Odour:** Slightly Aromatic

**Odour threshold:** No Data Available

**pH:** No Data Available

**Melting point:** No Data Available

**Boiling point:** <220°C (Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane)

**Flash point:** >130°C (Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane)

**Flammability:** Not Flammable or Combustible

**Lower Flammability Limit (LEL):** No Data Available

**Upper Flammability Limit (UEL):** No Data Available

**Vapour pressure:** <0.01kPa

**Vapour density:** No Data Available

**Relative density:** ~1.2 (Water = 1)

**Solubility (water):** ~0.0082 g/100 ml (20°C)

**Partition coefficient: n-octanol/water:** ~1.6 - 3.8

**Autoignition temp:** 465 °C (Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane)

**Decomposition temp:** ≥220°C

**Viscosity (kinematic):** >4200 cm<sup>2</sup>/s (25°C)

## 10. Stability & Reactivity

**Stability:** Considered unreactive under normal storage and handling conditions. Atmospheric exposure may result in gradually hardening of the polymer into a solid.

**Reactivity:** Unreactive under standard conditions.

**Conditions to avoid:** Avoid unintentional mixing with corrosive substances.

**Incompatible Materials:** explosive and oxidizing substances. Free radical initiators, peroxides, strongly alkaline and strongly acidic materials, or reactive metals. Contact with these could result in uncontrolled exothermic polymerization

**Hazardous decomposition products:** Carbon and nitrogen oxides may be formed.

**Hazardous Polymerisation:** Will not occur by itself, but a mass of more than 500 grams of product plus an aliphatic amine will cause irreversible polymerization and significant heat build-up.

## 11. Toxicological Information

### Health Effects / Symptoms of Exposure

#### Acute Exposure:

**Skin:** Causes skin irritation.

**Eyes:** Causes serious eye irritation.

**Ingestion:** Ingestion of large amounts will cause gastrointestinal discomfort.

**Inhalation:** Not expected to cause an inhalation hazard as the formulation is not volatile. Additional respiratory protection precautions should be implemented during mixing procedures with *Epoxy Resin Part B* catalyst (Section 8).

**Aspiration Hazard:** Not classified as an aspiration hazard.

#### Chronic Exposure:

**Respiratory or Skin sensitisation:** May cause an allergic skin reaction for susceptible individuals.

**Mutagenicity:** Not classified as a mutagen.

**Carcinogenicity:** Not classified as a carcinogenic substance.

**Reproductive Toxicity:** Not classified as having reproductive toxicity.

**Specific Target Organ Toxicity (STOT):** Repeat exposure through the skin/dermal exposure may impact the blood and the hematopoietic system, alongside liver and kidney functionality.

### Toxicological Data – for specified ingredient

Benzenemethanol	LD50 (Oral, Rabbit) =	1040 mg/kg bw
	LD50 (Dermal, Rabbit) =	2000 mg/kg bw
	LC50 (Inhalation, Rat) =	8.8 mg/l (8-hour)

Data source: *Chemical Classification and Information Database*

## 12. Ecological Information

**Persistence in environment:** Not Determined

**Biodegradability in water:** Not Biodegradable

**Mobility:** Not Determined

#### Ecotoxicological Data – for specified ingredient

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane:  
EC50 (freshwater algae and cyanobacteria, 96-hr) = <10mg/L  
Data source: *Chemical Classification and Information Database*

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### 13. Disposal Considerations

Product is hazardous. Do not allow into drains, sewers or watercourses. Bulk or contaminated product may be disposed of through an approved hazardous waste contractor. Disposal waste contractors must comply with the New Zealand Hazardous Substances (Disposal) Notice 2017. Containers may only be recycled if clean and free of residue so as to be non-hazardous.

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### 14. Transport Information

Classified as a Dangerous Good according to NZS 5433:2007 Transport of Dangerous Goods on Land.

**Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

**UN Number:** 3082

**DG Class:** Class 9

**Subsidiary Risk:** None

**Packing Group:** 9 PG III

**Marine Pollutant:** Considered a pollutant in aquatic environments.

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### 15. Regulatory Information

#### HSNO Approval

All ingredients listed in the NZIoC.

**HSNO Group Standard:** Polymers (Subsidiary Hazard) Group Standard 2020, HSR002644

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### 16. Other Information

#### **Abbreviations / Terminology:**

AS/NZS	Joint Australian New Zealand Standard	HSNO	(New Zealand) Hazardous Substances and New Organisms Act
AS/NZS 1337	Personal eye-protection	LC50	Median lethal concentration, being a statistically derived concentration of a substance that can be expected to cause death in 50 percent of organisms.
AS/NZS 1715	Selection, use and maintenance of respiratory protective equipment	LD50	Median lethal dose, being a statistically derived single dose of a substance that can be expected to cause death in 50 percent of animals.
AS/NZS 1716	Respiratory protective devices	NZIoC	New Zealand Inventory of Chemicals
AS/NZS 2161	Occupational protective gloves		
CAS#	Chemical Abstract Service number (a unique identifier for chemicals)		
EC50	Median effect concentration, being a statistically derived concentration of a substance that can be expected to cause an adverse reaction or reduction in growth/growth rate in 50 percent of organisms.		

Prepared with reference to:

- *Hazardous Substances (Safety Data Sheets) Notice 2017* published by Environmental Protection Authority, New Zealand.

**Current Version:** 29 November 2022

**Revision Information:** GHS-7 Criteria, Environmental Hazards, and Group Standard Allocation.

SDS may be revised from time to time, please ensure you have a current copy.

This revision: 29 November 2022

Previous revision dated: None

#### **Disclaimer:**

This safety data sheet attempts to describe as accurately as possible the potential exposures associated with normal use of the product described herein. Health and safety precautions in the data sheet may not be adequate for all individuals and/or situations. Users have the responsibility to evaluate and use this product safely and to comply with all applicable laws and regulations.

**SDS - Epoxy Resin Part A**

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--END OF SDS