

SECTION 1: IDENTIFICATION

Product Name Concrete Sealer
Other Names: Resin Solution
Chemical Family: Blended polymer solution
Molecular Formula: Not applicable
Recommended Use: Concrete & Masonry coatings

Supplier information

New Zealand Decorative Concrete Ltd T/A Permacolour
42A Egmont Road, Waiwhakaiho, New Plymouth
0508 444 555 or 06 755 3320
www.permacolour.co.nz

SECTION 2: HAZARDS IDENTIFICATION

Product is classified as hazardous according to Schedules 1 to 6 of the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001 of the HSNO Act, 1996.

HSNO Classifications: 3.1C, 6.1E, 6.3A, 6.4A, 6.7B, 6.8B, 6.9B, 9.1D



Signal word: WARNING

Hazard Statements :

H226 Flammable liquid and vapour	H306 May be harmful if swallowed and enters airways
H304 May be harmful if swallowed	H315 Causes skin irritation
H320 Causes eye irritation	H402 Toxic to aquatic life

Precaution Statements :

P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.	P103 Read label before use
	P201 Obtain special instructions before use
P280 Wear protective gloves, protective clothing and eye protection	P233 Keep container tightly closed
	P264 Wash thoroughly after handling
P241 Use explosion-proof electrical, ventilating and lighting equipment	P260 Do not breathe vapours
	P273 Avoid release to environment
P243 Take precautionary measures against static discharge	P240 Ground container and receiving equipment
	P242 Use only non-sparking tools

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Acrylic polymer	No Data Available	Various	<25
Xylene, mixed isomers	No Data Available	133-20-7	<73
Naphthalene	No Data Available	91-20-3	0.1 - 1.0
Ethylbenzene	No Data Available	100-41-4	0.1 - 1.0

SECTION 4: FIRST AID MEASURES

For advice, contact National Poison Centre (Phone New Zealand: 0800 764 766) or a doctor.

Swallowed	If swallowed, do not induce vomiting. Seek immediate medical attention. Begin artificial respiration if the person is not breathing. Use mouth to nose rather than mouth to mouth.
Eye	Hold eyelids apart and flush the eye continuously with running water. Continue flushing for at least 15 minutes. Get medical attention if irritation persists.
Skin	If skin or hair contact occurs, remove contaminated clothing and flush affected area with large amounts of water then wash with soap and water.

SECTION 4: FIRST AID MEASURES CONTINUED

Inhaled	Move the victim to fresh air immediately. Keep warm and at rest. Begin artificial respiration if breathing has stopped. Use mouth to nose rather than mouth to mouth. Seek immediate medical attention.
First Aid Facilities	Provide eye baths and safety showers close to areas where splashing may occur.
Medical Attention	Treat according to symptoms. Avoid gastric lavage: risk of aspiration of product to lungs with the potential to cause chemical pneumonitis. General measures should be taken to control acidosis and maintain urine output.

SECTION 5: FIRE-FIGHTING MEASURES

Shut off product that may 'fuel' a fire if safe to do so. Allow trained personnel to attend a fire in progress, providing fire-fighters with this Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

Suitable extinguishing media :	Dry chemical or foam
Hazards from combustion products:	Carbon dioxide and carbon monoxide
Precautions for fire fighters and special protective equipment:	Full protective clothing and self-contained breathing apparatus
Hazchem Code:	3[Y]

SECTION 6: ACCIDENTAL RELEASE MEASURES

Prevent fluid from escaping to drains and waterways. Contain leaking packaging in a containment drum. Prevent vapours from building up in confined areas. Ensure that drain valves are closed at all times. Clean up and report spills immediately.

Methods and materials for containment *Major Land Spill*

- Eliminate sources of ignition.
- Warn occupants of downwind areas of possible fire and explosion hazard.
- Prevent liquid from entering sewers, watercourses, or low-lying areas.
- Keep the public away from the area.
- Shut off the source of the spill if possible and safe to do so.
- Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation.
- Take measures to minimize the effect on the ground water.
- Contain the spilled liquid with sand or earth.
- Recover by pumping – use explosion proof pump or hand pump – or with a suitable absorbent material.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
- See "First Aid Measures" and "Stability and Reactivity"

Major Water Spill

- Eliminate any sources of ignition.
- Warn occupants and shipping in downwind areas of possible fire and explosion hazard.
- Notify the port or relevant authority and keep the public away from the area.
- Shut off the source of the spill if possible and safe to do so.
- Confine the spill if possible.
- Remove the product from the surface by skimming or with suitable absorbent material.

SECTION 6: ACCIDENTAL RELEASE MEASURES CONTINUED

- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

See "First Aid Measures" and "Stability and Reactivity".

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling: This product is flammable. Do not open near open flame, sources of heat or ignition. No smoking. Keep container closed. Handle containers with care. Open slowly to control possible pressure release. Material may accumulate static discharge. Use grounding leads to avoid discharge (electrical spark).

Conditions for safe storage: Store in a cool, dry place away from direct sunlight. Do not pressurize, cut, heat or weld containers - residual vapours are flammable. This product is flammable and will fuel a fire in progress.

Incompatible materials: Natural Rubber, Butyl and Nitrile Rubber, Neoprene.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Health Exposure Standards: The following Tolerable Exposure Limit (TEL) Workplace Exposure Standards (WES), 2002 have been set by the Occupational Safety and Health Service, NZ Department of Labour for components in this substance:

	WES-TWA	WES-STE
Xylene	50 ppm	217 mg/m ³
Naphthalene	10 ppm	52 mg/m ³

Manufacturers recommendation for product : TWA 350 mg/m³ (80 ppm), STEL 543 mg/m³ (125 ppm).

Biological limit values: Biological Exposure Index (BEI) – 1.5 g/g creatinine at end of shift.

Ventilation: The use of local exhaust ventilation is recommended to control process emissions near the source. Laboratory samples should be handled in a fume hood. Provide mechanical ventilation of confined spaces. Use explosion-proof ventilation equipment.

Personal Protective Equipment

Respiratory Protection: Where concentrations in air may exceed the limits described in the Health Exposure Standards, it is recommended to use a half-face filter mask to protect from over-exposure by inhalation. A type "A" filter material is considered suitable for this product.

Eye Protection: Always use safety glasses or a face shield when handling this product.

Skin/ Body Protection: Always wear long sleeves and long trousers or coveralls, and enclosed footwear or safety boots when handling this product. It is recommended that chemical resistant gloves be worn when handling this product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PROPERTY	UNIT OF MEASUREMENT	TYPICAL VALUE
Appearance	-	Clear colourless liquid
Boiling Point/Range	°C	136-175
Flash Point	°C	23-27
Density at 15°C	g/ml	0.88
Vapour Pressure at 20°C	Mm Hg	12.4
Vapour Density at 20°C	kPa	Not available
Auto ignition Temperature	°C	432-530
Explosive Limits In Air	%	1.2-8.6
Viscosity	cSt	Not available
Volatiles	%	100
Solubility in Water	% w/w	Negligible

The values listed are indicative of this product's physical and chemical properties. For a full product specification, please consult the Product Data Sheet.

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: Stable at room temperature and pressure.

Conditions to avoid: Sources of heat and ignition, open flames.

Hazardous decomposition

products: No decomposition products except on burning. See "Fire Fighting Measures".

Hazardous reactions: Mixing with strong oxidising agents causes violent reactions.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Effects

Ingestion: Small amounts of liquid aspirated into the lungs during ingestion or from vomiting, may cause chemical pneumonitis, or pulmonary oedema. Ingesting any amount of this product will result in headaches, nausea, dizziness, and tracheal burning.

Eye Contact: This product will be irritating to eyes resulting in redness and swelling with a burning sensation and blurred vision.

Skin Contact: Harmful in contact with skin. Symptoms include a burning sensation, redness, swelling and possible blistering.

Inhalation: Product is harmful by inhalation. The inhalation of vapours will cause dizziness and drowsiness. There is a possibility of organ damage over prolonged use or exposure. Central nervous system depression includes nausea, headaches, dizziness and possibly loss of consciousness.

Chronic Effects

This product contains naphthalene at 0.1 – 1.0%. IARC evaluated naphthalene and concluded that there was sufficient evidence for carcinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans. Accordingly, IARC classified naphthalene as a possible human carcinogen (Group 2B). ERMA NZ have classified naphthalene as being a 6.7B; suspected human carcinogen. Ethylbenzene is classified by ERMA as a 6.7B, suspected human carcinogen.

ERMA NZ have classified naphthalene, xylene and ethylbenzene as being a 6.9B classification; may cause damage to organs and systems.

Other Health Effects Information:

Persons with pre-existing liver, kidney, central nervous system or skin complaints should avoid unnecessary exposure to this product. Every effort should be made to protect eyes, respiratory tract and skin from exposure should be taken under these circumstances.

Toxicological Information:

Xylene	Oral, LD50 (mouse)	1590 mg/kg
	Inhalation, LC50 (rat)	27.6 mg/L (as vapour)
Naphthalene	Oral LD50 (rat)	490 mg/kg
	Dermal LD50 (rat)	1120 mg/Kg

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Aquatic toxicity: Product is harmful. Long term adverse effects to aquatic organisms are possible if continuous exposure is maintained.

Persistence/degradability: This product is likely to biodegrade on exposure to weathering and UV radiation. There is no data available to be able to classify as biodegradable.

Mobility: This product may be mobile in soil but is not miscible in water.

Environmental Exposure Standards:

EEEL (WATER):	Not set
EEL (SOIL)	Not set
EEL (SEDIMENTS)	Not set

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Methods: Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national and local authorities. Packaging may still contain fumes and vapours that are Flammable and harmful. Ensure that empty packaging is allowed to dry.

Special Precautions for Landfill or Incineration:

This product is NOT suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers. This product is ash less and can be burned directly in appropriate equipment.

SECTION 14: TRANSPORT INFORMATION

UN No.	1866	UN No.	1866	UN No.	1866
Proper Shipping Name	Resin Solution	Proper Shipping Name	Resin Solution	Proper Shipping Name	Resin Solution
DG Class	3.3	DG Class	3.3	DG Class	3.3
Sub. Risk		Sub. Risk		Sub. Risk	
Pack Group	III	Pack Group	III	Pack Group	III
Hazchem	3[Y]	Hazchem	3[Y]		

Dangerous Goods Segregation

This product is classified as a Dangerous Good Class 3, Packing Group III.

Please consult the Land Transport Rule: Dangerous Goods 2005, and NZS 5433:2007 Transport of Dangerous Goods on Land for

SECTION 15: REGULATORY INFORMATION

Country/ Region: New Zealand

Inventory: NZCIL

Status: Listed

ERMA New Zealand Approval Code:HSR002502 Additive, Process Chemicals and Raw Materials
Flammable, Toxic [6.7]) Group Standard, 2006

HSNO Controls: Codes: F1, F2, F3, F5, F6, F11, F12, F14, F16, F17, T1, T2, T3, T4, T5, T6, T7, T8, E1, E2, E6, E8, P1, P3, P5, PI3, P15, PG3, D2, D4, D5, D6, D7, D8, EM1, EM4, EM6, EM7, EM8, EM9, EM10, EM11, EM12, EM13, I1, I3, I5, I8, I9, I11,I13, I16, I17, I18, I19, I21, I23, I25, 28, I29, I30, AH1, GN35A.

Refer www.ermanz.govt.nz for information on Controls.

SECTION 16: OTHER INFORMATION

Reasons for Issue:

Updating HSNO classifications. Replaces Safety Data Sheet dated 29 October, 2007.

Abbreviations:

CAS Number: Chemical Abstracts Number

IARC: International Agency for Research on Cancer

NIOSH: National Institute of Occupational Safety & Health

NOHSC: National Occupational Health and Safety Council

NZCI: New Zealand Chemical Inventory

REL: Recommended Exposure Limits

SECTION 16: OTHER INFORMATION CONTINUED

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses, but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. For further information, please contact Permacolour by New Zealand Decorative Concrete.