

SECTION 1: IDENTIFICATION

Product Name Crystal Seal
Other Names: Waterproofing slurry
Chemical Family: Blended polymer solution
Molecular Formula: Not applicable
Recommended Use: Waterproofing of concrete

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 :

H315 Causes skin irritation	H318 Causes serious eye damage
H317 May cause an allergic skin reaction	H350 May cause cancer
H335 May cause respiratory irritation	H400 Very toxic to aquatic life
H410 very toxic to aquatic life with long lasting effects	

Precaution Statements :

P201 Obtain special instructions before use	P271 Use only outside or in well ventilated areas
P280 Wear protective gloves, protective clothing, eye protection, face protection	P281 Use personal protective equipment as required
P273 Avoid release to the environment	P261 Avoid breathing dusts, fumes, gas, mists, vapour, spray
	P272 Contaminated work clothing should not be allowed in the workplace

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS
Ingredients

Chemical Entity	Formula	CAS Number	Proportion
No Data Available	No Data Available	65997-15-1	30-60
No Data Available	No Data Available	No Data Available	30-60
No Data Available	No Data Available	No Data Available	10-30

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.

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 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
Portland Cement	10 ppm	Not Available

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

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	
Appearance	-	Not available
Boiling Point/Range	°C	Not available
Flash Point	°C	Not available
Density at 15°C	g/ml	Not available
Vapour Prussure at 20°C	Mm Hg	Not available
Vapour Density at 20°C	kPa	Not available
Auto ignition Temperature	°C	Not available
Explosive Limits In Air	%	Not available
Viscosity	cSt	Not available
Volatiles	%	Not available
Solubility in Water	% w/w	Negligible

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: Stable at room temperature and pressure. Unstable in the presence of incompatible materials.

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

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

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.

SECTION 11: TOXICOLOGICAL INFORMATION CONTINUED

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:

Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Not Available

Aquatic toxicity: Not Available

Persistence/degradability: Not Available

Mobility: Not Available

Environmental Exposure Standards: Not Available

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

Land Transport: Not regulated for transport of dangerous goods

Air Transport: Not regulated for transport of dangerous goods

Sea Transport: Not regulated for transport of dangerous goods

SECTION 15: REGULATORY INFORMATION

Country/ Region: New Zealand

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

SECTION 16: OTHER INFORMATION

Reasons for Issue:

Updating HSNO classifications. Replaces Safety Data Sheet dated January 2011.

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

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.