


# SAFETY DATA SHEET

## Section 1: Identification of the Substance and Supplier

<b>Product name</b>	<b>Cement Type; GP, HE, CT and ASTM Type II</b>
<b>Other names</b>	EverSure™ (GP), EverFast™ (HE), Ciment Tropical (PM) (CT), Ciment Ordinaire (GP)
<b>Recommended use</b>	Used in commercial, industrial and residential construction including structural concrete, mortars, renders, grouts and cement based products, and can also be used as a general binder for applications such as soil stabilisation.
<b>Company details</b>	Golden Bay Cement <b>Address:</b> Portland Road, Whangarei 0178 PO Box 1143, Whangarei 0140 <b>Phone:</b> 09 432 2656 <b>Hours</b> 7.30am – 4 pm, Mon – Fri
<b>Emergency telephone</b>	0800 764 766 (0800 POISON) 24 hours human health.
<b>Date of preparation</b>	17 April 2014

## Section 2: Hazards Identification

<b>Hazard classifications</b>	Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.
<b>HSNO approval number</b>	Construction Products (Corrosive [8.2C]) Group Standard 2006.
<b>HSNO approval number</b>	HSR002542
<b>Hazard classifications</b>	6.9,6.9B, 8.2C, 8.3A, 9.1D
<b>GHS Pictograms</b>	
<b>Signal word</b>	DANGER
<b>Hazard statements</b>	H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H335 May cause respiratory irritation. H373 May cause damage to organs. H402 Harmful to aquatic life.
<b>Prevention statements</b>	P102 Keep out of reach of children. P103 Read label before use. P260 Do not breathe dust. P264 Wash hands and exposed skin thoroughly after handling. P271 Use only outdoors or in well-ventilated area.

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	<p>P272 Contaminated work clothing should not be allowed out of the workplace.</p> <p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves and eye/face protection.</p>
<b>Response statements</b>	<p>P101 If medical advice is needed, have product container or label at hand.</p> <p>P314 Get medical advice if you feel unwell.</p> <p>P308 + P313 If exposed or concerned: Get medical advice.</p> <p>P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</p> <p>P303 + P361 + P353 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.</p> <p>P333 + P313 If skin irritation or rash occurs: Get medical advice.</p> <p>P363 Wash contaminated clothing before re-use.</p> <p>P304 + P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.</p> <p>P310 Immediately call a POISON CENTRE or doctor.</p> <p>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P310 Immediately call a POISON CENTRE or doctor.</p>
<b>Storage statements</b>	<p>P403 + P233 Store in well-ventilated space. Keep container tightly closed.</p> <p>P405 Store locked up.</p>
<b>Disposal statements</b>	<p>P501 Dispose of product and packaging in accordance with local regulations.</p>

### Section 3: Composition/Information on Ingredients

Chemical name	CAS number	Concentration % w/w
Portland cement clinker	65997-15-1	90 to 95
Limestone	1317-65-3	< 10
Fly Ash	68131-74-8	< 3
Gypsum	13397-24-5	< 5
<i>Product includes following:</i>		
Hexavalent chromium (Cr <sup>+6</sup> )	18540-29-9	<0.002

**Note:** The product contains naturally occurring materials that may contain trace amounts of potentially harmful chemicals. Portland cement clinker may contain insoluble residues including free crystalline silica and trace amounts of chromium salts or compounds including hexavalent chromium or other metals known to be hazardous or toxic in some forms. Metals are present mostly as trace impurities in the mineral raw materials. Composition is dependent upon product origin

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### Section 4: First Aid measures

<b>Advice</b>	If medical advice is needed, have the product container or label at hand. Contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor.
<b>Ingestion</b>	If exposed or concerned or feeling unwell, seek medical advice. Rinse mouth. Do NOT induce vomiting. Give water to drink. Immediately call the Poisons Centre or a doctor for advice.
<b>Inhalation</b>	Remove to fresh air. If breathing is difficult, keep person at rest in a position comfortable for breathing. If breathing is difficult, administer oxygen and get immediate medical assistance.
<b>Eyes</b>	If experiencing respiratory symptoms, e.g. coughing does not subside, or if feeling unwell, immediately call the Poisons Centre or a doctor. Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so after the first 5 minutes. Continue rinsing for at least 15 minutes ensuring all particles are removed from under eyelids. Immediately call the Poisons Centre or a doctor for advice.
<b>Skin</b>	Remove contaminated clothing. Flush skin with plenty of water followed by washing with soap and wash. Get medical advice if skin irritation or rash develops. Launder contaminated clothing separate from household laundry, before reuse.
<b>Workplace facilities</b>	Eye washing facility required and safety shower recommended.

### Section 5: Fire Fighting Measures

<b>Type of hazard</b>	Not classified as flammable.
<b>Fire hazard properties</b>	Non-flammable. No fire or explosion hazard.
<b>Suitable extinguishing media</b>	Not combustible; use extinguishing media suitable for the surrounding materials.
<b>Hazards from combustion products</b>	Toxic gases (not specified).
<b>Precautions for fire-fighters and special protective equipment</b>	Full protective clothing and self-contained breathing apparatus Not applicable.

### Section 6: Accidental Release Measures

<b>Emergency procedures</b>	If spilt (bulk), contact emergency services if appropriate. Use appropriate personal equipment (Section 8: Exposure Control/Personal Protection). Prevent spill from entering drains or waterways. Collect preferably in dry state, and place in sealable containers for disposal. Avoid generating dust.
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### Section 7: Handling and Storage

<b>Precautions for safe handling</b>	Read Safety Data Sheet before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Wear protective gloves, eye and face protection. Use only outdoors and in a well-ventilated area.
<b>Regulatory requirements</b>	Approved Handler and Tracking not required. Site signage required where quantities greater than 1,000 kg are present. Emergency response plans are required where quantities greater than 10,000 kg are present.
<b>Handling practices</b>	Avoid contact with eyes and wear eye protection. Keep packaging adequately sealed during material transfer, transport, or when not in use. Use safe work practices to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before rest or meal breaks or when finished using product. Prohibit eating, drinking and smoking in contaminated areas (e.g. if packaging is damaged). Wash exposed skin thoroughly after handling.
<b>Conditions for safe storage</b>	Keep out of reach of children. Ensure packaging is labelled, protected from physical damage and sealed when not in use. Prevent product from being exposed to high humidity and moisture.
<b>Store site requirements</b>	Store locked up in a cool, dry, well-ventilated area, away from moisture, oxidising agents (e.g. hydrogen fluoride, phosphorus oxide), acids, ethanol, inter-halogens (e.g. chlorine trifluoride) and foodstuffs.

### Section 8: Exposure Control/Personal Protection

<b>Workplace exposure standards</b>	<b>Effective from February 2013</b> Portland cement (CAS No 65997-15-1) (note: the value is for inhalable dust containing no asbestos and less than 1% free silica) Lime (CAS No 1305-78-8 ) Hexavalent chromium (CAS No 18540-29-9)	<b>WES-TWA</b> 10 mg/m <sup>3</sup> 2 mg/m <sup>3</sup> 0.05 mg/m <sup>3</sup>
<b>Application in the workplace</b>	Use with adequate natural ventilation. Where dust inhalation hazard exists, mechanical extraction ventilation is required to keep concentrations of components below the WES concentrations.	
<b>Exposure standards outside the workplace</b>	No TEL or EEL is set for this substance.	
<b>Personal protection</b>	Wear dust-proof goggles and rubber or PVC gloves. At high dust levels, wear a class P3 (particulate) respirator or a powered air purifying respirator (PAPR) with class P3 (particulate) filter. Where an inhalation risk exists, wear a class P1 (particulate) respirator. When using large quantities or where heavy contamination is likely, wear overalls. Contaminated work clothing should not be allowed out of the workplace.	

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<b>Engineering controls</b>	Where possible ventilation should be used (with a suitable dust trap or filter) to maintain the environment below the Workplace Exposure Standard.
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### Section 9: Physical and Chemical Properties

<b>Appearance</b>	Fine white to dark grey powder.
<b>pH</b>	11 to 13
<b>Melting Point</b>	>1,200°C
<b>Bulk Density</b>	Not known.
<b>Specific Gravity</b>	2.9 - 3.2
<b>Vapour Pressure</b>	Not known.
<b>Solubility in water</b>	< 10 g/L

### Section 10: Stability and Reactivity

<b>Stability of the substance</b>	Stable under normal storage and handling conditions.
<b>Conditions to avoid</b>	Water contact may increase product temperature 2-3°C.
<b>Materials to avoid</b>	Wet cement dust is very alkaline. Product is incompatible with oxidising agents (e.g. hypochlorites), ethanol, acids (e.g. hydrofluoric acid) and interhalogens (e.g. chlorine trifluoride). Contact with aluminium.
<b>Hazardous decomposition products</b>	May evolve toxic gases if heated to decomposition.

### Section 11: Toxicological Information

<b>Summary</b>	Avoid eye or skin contact or dust inhalation. This product has the potential to cause acute and chronic health effects with over exposure. Product is very alkaline so corrosive to skin and eyes when exposed to moisture (sweat) or mixed with water. Contains a very low concentration of hexavalent chromium compound classified as carcinogenic to humans (IARC Group 1).
<b>Ingestion</b>	Ingestion may result in burns to the mouth and throat, with vomiting and abdominal pain. Due to product form, ingestion is not considered a likely exposure route.

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<b>Inhalation</b>	Respiratory irritant. Over exposure may result in severe mucous membrane irritation & bronchitis. Pre-existing respiratory conditions may be aggravated. Hexavalent chromium is reported to cause respiratory sensitisation, however due to the trace amount present, a hazard is not anticipated under normal conditions of use.
<b>Skin</b>	Corrosive when in contact with moisture, e.g. sweat, or water. Prolonged and repeated contact with powder or wetted form may result in skin rash, and in sensitive individuals the possibility of dermatitis.
<b>Eye</b>	Corrosive. Severely irritating when contact with airborne powder/ dust. Exposure to larger amounts or wet product may result in symptoms ranging from moderate irritation such as pain or redness, through to corneal burns and ulceration with possible permanent damage.
<b>TEL</b>	No TEL is set for this substance at this time.

### Section 12: Environmental Information

<b>General information</b>	The product is an inorganic material and once used for the intended purpose and hardened presents no toxicity, persistence or bioaccumulative risks.
<b>Aquatic</b>	Product is highly alkaline (pH 11 -13) and any spillage into an aquatic environment would potentially have a negative impact on aquatic life. Product is identified as a being harmful to aquatic life.
<b>Soil</b>	Not classified for soil ecotoxicity under the Hazardous Substances and New Organisms Act
<b>Terrestrial vertebrates</b>	Not classified as toxic to terrestrial vertebrates under the Hazardous Substances and New Organisms Act.
<b>Terrestrial invertebrates</b>	Not classified as toxic to terrestrial invertebrates under the Hazardous Substances and New Organisms Act.
<b>EEL</b>	No EEL has been set for this substance.

### Section 13: Disposal Considerations

<b>Disposal information</b>	<p>Do not dispose of into sewerage systems or surface waters.</p> <p>Reuse or recycle dry uncontaminated product where possible. Alternatively, either allow slurries to harden then dispose of as concrete (non-hazardous waste), or ensure product is covered with moist soil to prevent dust generation and dispose of to an approved landfill site.</p> <p>Dispose of empty packaging by incineration or to landfill according to requirements of local regulations.</p>
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### Section 14: Transport Information

<b>Relevant requirements</b>	<p>Not regulated for transport purposes.</p> <p>Consult the Land Transport Rule: Dangerous Goods 2005, and NZS 5433:2012 Transport of Dangerous Goods on Land for information.</p> <p><i>Note: While a 8.2C hazardous classification is applied to this product and would normally trigger a requirement for transport as a Corrosive solid; Cement products have not been/are not regulated for transport.</i></p> <p><i>The 8.2C classification is applicable when the product is in contact with moisture/wet.</i></p>
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### Section 15: Regulatory Information

<b>Regulatory status</b>	<p>HSNO Approval Code: HSR002542 - Construction Products (Corrosive [8.2C] Group Standard 2006.</p> <p>For the Controls refer to the Group Standard available on <a href="http://www.epa.govt.nz">www.epa.govt.nz</a>.</p>
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### Section 16: Other Information

<b>Date of issue</b>	17 April 2014
<b>Reasons for issue</b>	Review of product composition and classifications
<b>Replaces</b>	Safety Data Sheet dated 12.02.10
<b>Abbreviations</b>	<p>CAS      Chemical Abstract Service number - used to uniquely identify chemical compounds.</p> <p>EPA      Environmental Protection Authority</p> <p>IARC     International Agency for Research on Cancer.</p> <p>mg/m<sup>3</sup>   milligrams per cubic metre.</p> <p>ppm     parts per million.</p> <p>pH      relates to hydrogen ion concentration - this value will relate to a scale of 0 - 14, where 0 is highly acidic and 14 is highly alkaline.</p> <p>TEL     Tolerable Exposure limit</p> <p>TWA     Time Weighted Average.</p> <p>WES     Workplace Exposure Standard</p>
<b>Additional information</b>	None.

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End of Safety Data Sheet