

SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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| Product Name: | CSR FireSeal™ (NZ) |
| Other Names: | None |
| Product Codes/Trade Names: | None |
| Recommended Use: | Sealant for Fire and Acoustic Rated Construction |
| Applicable In: | New Zealand |
| Supplier: | CSR Building Products (NZ) Limited |
| Address: | Unit 3, 38b Birmingham Drive, Christchurch 8024, New Zealand |
| Telephone: | +64 3 336 5500 |
| Email Address: | info@csrhebel.co.nz |
| Web Site: | www.csrhebel.co.nz |
| Facsimile: | +64 3 335 0725 |
| Emergency Phone Number: | 111 Police, Ambulance and Fire Brigade (available in NZ only) |
| Poisons Information Centre: | 0800 POISON (764 766) (available in NZ only) |

This Safety Data Sheet (SDS) is issued by the Supplier in accordance with New Zealand Workplace Exposure Standards. The information in it must not be altered, deleted or added to. The Supplier will not accept any responsibility for any changes made to its SDS by any other person or organization. The Supplier will issue a new SDS when there is a change in product specifications and/or Standards, Codes, Guidelines, or Regulations.

SECTION 2: HAZARDS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE: Classified as **Non-Hazardous** according to the Approved Criteria For Classifying Hazardous Substances [NOHSC:1008] 3rd Edition.

No approval required under the Hazardous Substances and New Organisms Act (HSNO).

FireSeal™ is classified as **Non-Dangerous Goods** according to the NZ Transport of Dangerous Goods on Land.

GHS CLASSIFICATION:

Not classified as Hazardous. Because this product is classified as Non-Hazardous, a Safety Data Sheet (SDS) is not required under the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) or New Zealand Regulations. CSR has elected to issue this SDS for the information of users, installers and the community. It has been formatted according to the GHS, as adopted by NZ EPA.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name: | Synonyms: | Proportion: | CAS Number: |
|-----------------------------|--------------------|-------------|-------------|
| Acrylic emulsion | | 10-40% | |
| Nepheline syenite | Aluminium silicate | 10-30% | 37244-96-5 |
| Aluminium trihydrate powder | | 10-30% | 8064-00-4 |
| Polyurethane resin | | <10% | |

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| Zinc borate hydrate | | <5% | 138265-88-0 |
| Wetting agents, biocide and emulsifier | | trace | |

SECTION 4: FIRST AID MEASURES

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| Swallowed: | Rinse mouth and lips with water. Do not induce vomiting. If symptoms persist, seek medical attention. |
| Eyes: | Flush thoroughly with flowing water, while holding eyelids open, for 15 minutes to remove all traces. If symptoms such as irritation or redness persist, seek medical attention. |
| Skin: | Remove heavily contaminated clothing. Wash off skin thoroughly with water. Use a mild soap if available. If symptoms such as irritation or redness persist, seek medical attention. |
| Inhaled: | Remove to fresh air. If symptoms persist, seek medical attention. |
| First Aid Facilities: | As required for the site where product is used. |
| Advice to Doctor: | Treat symptomatically. |

SECTION 5: FIRE FIGHTING MEASURES

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| Suitable extinguishing media: | Use carbon dioxide, foam, dry chemical or water spray to extinguish, as required for fire in surrounding materials. |
| Specific hazards: | Following evaporation of the water component of the material, the residual material can burn if ignited. Combustion products include carbon monoxide, carbon dioxide, and oxides of nitrogen. |
| Special protective precautions and equipment for fire fighters: | As required for fire in surrounding materials. |
| HAZCHEM Code: | None |

SECTION 6: ACCIDENTAL RELEASE MEASURES

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| Personal precautions, protective equipment and emergency procedures: | Slippery when spilt – clean up immediately. For large spills, work up wind or increase ventilation. Recommendations on Exposure Controls / Personal Protection (see Section 8 below) should be followed during spill and clean-up. |
| Environmental precautions: | Contain and prevent run off into drains and waterways. If contamination of sewers or waterways has occurred, advise local emergency services. |
| Methods and materials for containment and cleaning up: | For small spills, wipe up with rag or absorbent paper. For large spills, use absorbent soil, sand or other inert material. Collect and seal in properly labelled containers or drums for disposal. Scrape up excess material before cure. Cured material can only be removed by cutting or abrasion. |

SECTION 7: HANDLING AND STORAGE

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| Precautions for safe handling: | Manual handling should be in accordance with Manual Handling Regulations and Codes. |
| Conditions for safe storage: | Store in cool place and out of direct sunlight. Store away from oxidising agents. Keep containers closed when not in use; check regularly for leaks. |
| Incompatibilities: | Avoid reaction with oxidising agents. |

CSR SDS Reference: CSR-SDS-195

Date Issued: 10/10/2016

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

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| Exposure Standards: | Workplace Exposure Standards and Biological Exposure Indices, NZ Department of Labour No exposure standard is applicable to this non-hazardous product. |
| Biological Limit Values: | No biological limit allocated. |
| ENGINEERING CONTROLS | |
| <input type="checkbox"/> Ventilation: | Use in well ventilated areas. Work in the open air and external openings (such as doors and windows in buildings) generally provides adequate ventilation. Local mechanical ventilation or extraction may be used, if necessary. |
| <input type="checkbox"/> Special Consideration for Repair &/or Maintenance of Contaminated Equipment: | Recommendations on Exposure Control and Personal Protection should be followed. |
| PERSONAL PROTECTION | |
| <input type="checkbox"/> Personal Hygiene | Wash hands before eating, drinking, using the toilet, or smoking. Wash work clothes regularly. |
| <input type="checkbox"/> Skin Protection: | Wear protective standard duty leather or equivalent gloves (NZS 2161), loose comfortable clothing, and boots. Long-sleeved shirts and long trousers are recommended if skin irritation occurs. |
| <input type="checkbox"/> Eye Protection: | Wear eye protection conforming with New Zealand Standards (NZS 1336). |
| <input type="checkbox"/> Respiratory Protection: | If required, wear a P1 or P2 respirator suitable for particulates conforming with NZS 1715 and NZS 1716 in regard to selection, fit-testing, use & maintenance. Use only respirators that bear the New Zealand Standards mark and are fitted and maintained correctly, and kept in clean storage when not in use. |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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| Appearance: | Grey paste |
| Odour: | Characteristic acrylic odour |
| Odour threshold: | Not available |
| pH: | 8.5 |
| Melting point: | Not available |
| Initial boiling point and range: | 100°C (water) |
| Flash point: | Not applicable |
| Evaporation rate: | Not available |
| Flammability: | Not combustible, however following evaporation of the water component of the material, the residual material can burn if ignited. |
| Upper/lower flammability or explosive limits: | Not applicable |
| Vapour pressure: | Not available |
| Vapour density: | Not available |
| Specific gravity (Relative density): | 1.53 |

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| Solubility: | Dispersible in water |
| Partition coefficient (n-octanol/water): | Not determined |
| Auto-ignition temperature: | Not available |
| Decomposition temperature: | Not determined |
| Viscosity: | Not determined |
| % Volatiles: | 15% (water) |

SECTION 10: STABILITY AND REACTIVITY

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| Chemical Stability: | Stable under normal conditions of use |
| Hazardous Reactions: | None |
| Conditions to avoid: | Avoid exposure to frost |
| Incompatible Materials: | Oxidising agents |
| Hazardous Decomposition Products: | Oxides of carbon and oxides of nitrogen |

SECTION 11: TOXICOLOGICAL INFORMATION

Health Effects: Acute (short term)

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| Swallowed: | Swallowing a large quantity may cause nausea and vomiting. |
| Eyes: | May be irritating to the eyes, as with any foreign body. |
| Skin: | Repeated and heavy skin contamination may lead to skin discomfort. |
| Inhaled: | Dust generated from the dried product may be mildly irritating to the nose, throat and respiratory tract and may cause coughing and sneezing. Pre-existing upper respiratory and lung diseases including asthma and bronchitis may be aggravated. |

Toxicity Data

No specific toxicology data available for this product. No health effects expected under normal conditions of use.

SECTION 12: ECOLOGICAL INFORMATION

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| Eco-toxicity: | The physical and chemical nature of the product, and toxicological data on ingredients, indicate that this product is a relatively low risk. |
| Persistence and Degradability: | Product is persistent and would have a low degradability. |
| Bioaccumulative potential: | There is no evidence to suggest bioaccumulation will occur. |
| Mobility in soil: | A low mobility would be expected in a landfill situation. |

SECTION 13: DISPOSAL CONSIDERATIONS

FireSeal™ can be treated as a common waste for disposal or dumped into a landfill site in accordance with local authority guidelines. Keep material out of storm water and sewer drains.

SECTION 14: TRANSPORT INFORMATION

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| UN number: | None allocated |
| UN Proper Shipping Name: | None allocated |
| Class and Subsidiary Risk: | None allocated |
| Packaging Group: | None allocated |
| Marine Pollutant: | No |
| Special Precautions for User: | None |
| HAZCHEM code: | None allocated |

SECTION 15: REGULATORY INFORMATION

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| HSNO Approval No: | Not required under the Hazardous Substances and New Organisms Act (HSNO). |
| Poisons Schedule: | Not scheduled |

SECTION 16: OTHER INFORMATION

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| For further information on this product, please contact: | |
| CSR Building Products (NZ) Limited, Unit 3, 38b Birmingham Drive, Christchurch 8024, New Zealand | |
| Phone: | +64 3 336 5500 |

ADDITIONAL INFORMATION**New Zealand Standards References:**

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| NZS 1336 | Recommended Practices for Occupational Eye Protection |
| NZS 1715 | Selection, Use and Maintenance of Respiratory Protective Devices |
| NZS 1716 | Respiratory Protective Devices |
| NZS 2161 | Occupational Protective Gloves |
| NZS 5433 | Transport of Dangerous Goods on Land |

Other References:

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|------------------------|---|
| NOHSC:1008 (2004) | Approved Criteria for Classifying Hazardous Substances |
| Model Code of Practice | Preparation of Safety Data Sheets for Hazardous Chemicals, December 2011, Safe Work Australia. |
| Model Code of Practice | Labelling of Workplace Hazardous Chemicals, December 2011, Safe Work Australia. |
| Model Code of Practice | Managing Risks Of Hazardous Chemicals In The Workplace, July 2012, Safe Work Australia. |
| WHS | Guidance on the Classification of Hazardous Chemicals under the WHS Regulations, April 2012, Safe Work Australia. |
| HSNO CoP 8-1 | Code of Practice for the Preparation of Safety Data Sheets, September 2006, NZ EPA. |
| WES | Workplace Exposure Standards and Biological Exposure Indices, 6th Edition, July 2011, NZ Department of Labour. |

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| NZ CCID | Chemical Classification and Information Database (CCID), internet advisory service, NZ EPA. |
| GHS | Globally Harmonized System of Classification and Labelling of Chemicals (GHS), 3 rd revised edition, United Nations, New York and Geneva, 2009. |
| GHS | Understanding the Globally Harmonized System of Classification and Labelling of Chemicals (GHS), United Nations, New York and Geneva, 2010. |
| HCIL | GHS Hazardous Chemical Information List (HCIL), internet advisory service, Safe Work Australia. |

AUTHORISATION

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| Reason for Issue: | Update to GHS format |
| Authorised by: | LWS Safety Improvement manager |
| Date of Issue: | 10th October 2016 |

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END OF SDS