

# ENVIROCore 200

## 1. Identification

**Product Name:** ENVIROCore 200

**Recommended Use:** Raw ingredient

**Other names:** Ash by-product (coal), Boiler ash, By-product lignite ash, Coal fly ash

**Proper Shipping Name:** Not applicable

### Supplier:

**Name:** Holcim NZ Ltd

**Phone:** 0800 HOLCIM (465 246)

**Address:** Unit 1, Show Place,  
Addington  
Christchurch, 8024

**Website:** www.holcim.co.nz

**Emergency Contacts:** Emergency Services (Fire, Ambulance, Police) – Dial 111  
National Poisons Information Centre – 0800 764 766 (0800 POISON)  
Company Contact – 0800 HOLCIM (465 246)

## 2. Hazard Identification

### Statement of Hazardous Nature:

This preparation is classified as a health or environmental hazard according to the Hazardous Substances (Minimum Degrees of Hazard) Notice 2017.

Not classified as a Dangerous Good according to NZS 5433.

### Hazard Classification:

6.1E (respiratory tract irritant), 6.3A, 6.4A, 6.9B

### Hazard Statements:



### Prevention Statements:

Read safety data sheet before use.

Do not breathe dust.

Wash hands and exposed skin thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves and eye/face protection.

### WARNING

May cause respiratory irritation.

Causes skin irritation.

Causes serious eye irritation.

May cause damage to organs (lungs) through prolonged or repeated exposure through inhalation.

## 3. Composition & Information on Ingredients

Ingredient	CAS Number	Concentration (%)
Fly Ash	68131-74-8	100%
Includes		
Crystalline silica*	14808-60-7	0 – 10%

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## 4. First Aid Measures

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

**Inhalation:** IF INHALED, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell or experience breathing difficulties.

**Skin:** IF ON SKIN, wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. If skin irritation occurs, seek 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. Do not rub eyes as this may cause possible corneal damage by mechanical stress. If symptoms such as irritation or redness persist, seek medical attention.

**Ingestion:** IF SWALLOWED, rinse mouth and lips with water. Do not induce vomiting. If symptoms persist, seek medical attention.

**Advice to Doctor:** Treat symptomatically.

## 5. Fire Fighting Measures

**Flammability:** Non-combustible, non-explosive.

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

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

**Fire Fighting Instructions:** None specified.

## 6. Accidental Release Measures

Protect yourself and others from harm. Wear appropriate protective equipment (see Section 8)

**Spills:** Collect dust by wet sweeping or vacuuming to ensure minimal airborne dust generation. Wetting down before sweeping up dust may be a useful control measure. Avoid inhalation of dust and contact with skin. Collect and place in sealable containers for disposal. Prevent spill from entering storm water/ sewer drains and watercourses.

**Personal precautions, protective equipment and emergency procedures:** Recommendations on exposure controls / personal protection (see Section 8 below) should be followed during spill clean-up if conditions are dusty.

## 7. Handling & Storage

### Safe Handling

Do not breathe dust.

Avoid eye and skin contact.

Wash hands thoroughly after handling.

Prohibit eating, drinking and smoking in work areas.

Wear protective gloves and eye/face protection.

Use only outdoors or in a well-ventilated area.

Work areas should be cleaned regularly by wet sweeping or vacuuming.

**Certified Handler:** Not required

### Storage

Store locked up.

Store in a well-ventilated area. Keep container / package tightly closed.

## 8. Exposure Controls & Personal Protection

### Exposure Standards

#### Workplace Exposure Standards (WES):

Ingredient	CAS Number	TWA	STEL
Particulates not otherwise classified	-	10 mg/m <sup>3</sup> (inhalable) 3 mg/m <sup>3</sup> (respirable)	-
Silica, crystalline (all forms) 6.7A	14808-60-7	0.05 mg/m <sup>3</sup> (respirable dust)	-

Data source: *Workplace Exposure Standards and Biological Indices (11<sup>th</sup> Edition, Nov 2019, WorkSafe)*

**Biological Exposure Indices (BEI):** No biological exposure indices have been set for this product or its ingredients in the Workplace Exposure Standards and Biological Indices (11th Edition, Nov 2019, WorkSafe).

### Engineering Controls

**Ventilation:** Use local mechanical ventilation or extraction where dust may be present. Closed pumping systems are recommended for bulk transfer.

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An exhaust fan ducted from near the point of generation can be used to control airborne dust levels. Dust levels and any other discharge of dust should comply with Health and Safety rules, Resource Consents and any relevant District or Regional rules.

## Personal Protection (PPE)

Wear protective gloves and eye/face protection. In case of inadequate ventilation, wear respiratory (particulate) protection.

**Eyes/Face:** Use tight fitting goggles or protective eyewear in accordance with AS/NZS 1337.

**Skin:** Use protective gloves when directly handling the product. Consult your glove supplier for additional information on glove selection.

**Respiratory protection:** In dusty environments where engineering controls are inadequate to minimize dust exposure, the use of an approved Class P1 or P2 particulate disposable respirator (not a nuisance dust mask) is recommended. At high dust levels greater protection may be required. Respiratory protection must comply with AS/NZS 1716 and be maintained in accordance with AS/NZS 1715.

## 9. Physical & Chemical Properties

**Appearance:** Powder (grey/black or brown/tan) may contain solidified masses.

**Odour:** None

**pH:** Slightly alkaline, approx. 8 - 10

**Boiling point:** Not applicable

**Melting point:** >1,400°C

**Relative density:** 2.13 g/cm<sup>3</sup>

**Solubility (water):** Insoluble

**Flash point:** Not applicable

**Autoignition Temp:** Not applicable

**Lower Flammability Limit (LEL):** Not applicable

**Upper Flammability Limit (UEL):** Not applicable

**Evaporation rate:** Not applicable.

**Vapour pressure:** Not applicable

**Viscosity (dynamic):** Not applicable

**Partition coefficient (n-octanol/water):** Not determined

## 10. Stability & Reactivity

**Stability:** Stable under normal conditions of use and storage.

**Conditions to avoid:** Dust generation.

**Incompatible / Materials to avoid:** Ash is incompatible with acid, ammonium salts and aluminium metal. Ash will

dissolve in hydrofluoric acid and produce corrosive gases. Ash will react with water to form silicates and calcium hydroxide which can react further with oxidisers.

**Hazardous decomposition products:** None specified.

**Hazardous polymerisation:** Does not occur.

## 11. Toxicological Information

### Health Effects / Symptoms of Exposure

#### **Acute Exposure (short term)**

**Inhalation:** May cause respiratory irritation. Inhalation of dust can cause irritation and inflammation of the upper respiratory system, including nose and throat.

**Eyes:** Causes serious eye irritation. May cause formation of tears (lachrymation) and redness.

**Skin:** Causes skin irritation. Contact with ash may result in irritation or contact dermatitis.

**Ingestion:** Not an expected route of exposure under normal conditions of use. No adverse effects expected from ingestion of small quantities, larger quantities may result in gastrointestinal discomfort.

#### **Chronic Exposure (long term)**

**Respiratory or Skin sensitisation:** Not classified.

**Mutagenicity:** Not expected to be a mutagen.

**Carcinogenicity:** Product is not classified as a carcinogen.

Note: This product contains crystalline silica which is classified as carcinogenic to humans (IARC Group 1). Repeated exposure to dust may result in chronic inflammation of the respiratory system. Repeated exposure to crystalline silica may cause bronchitis, silicosis, and other respiratory disorders.

**Reproductive Toxicity:** Not classified.

**Specific Target Organ Toxicity (STOT):** May cause damage to organs (lungs) through prolonged or repeated exposure through inhalation.

**Aspiration Hazard:** This product is a solid and aspiration hazards are not expected to occur.

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## Toxicological Data

No toxicological data available for the product or its ingredients.

## Biological Exposure Indices

No biological exposure indices allocated.

## 12. Ecological Information

**Persistence in environment:** Product is persistent.

**Biodegradability:** Low degradability.

**Mobility:** Low mobility expected in a landfill situation.

## Ecotoxicological Data

No data available for this product or its ingredients.

## 13. Disposal Considerations

Dust from product is hazardous. If practicable, spilled materials should be returned to the container for later use if it is not contaminated. Small amounts of material can be disposed of as trade waste or landfill in accordance with local authority guidelines. Large amounts may require special handling. Prevent material from entering storm water and sewer drains. Any discharge during clean-up should comply with Resource Consent requirements and any relevant District or Regional Council rules. Containers/packaging may only be recycled if clean and free of residue as to be non-hazardous.

## 14. Transport Information

Not classified as a Dangerous Good according to NZS 5433:2007

## 15. Regulatory Information

### HSNO Approval

**HSNO Group Standard:** Additive, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017 - HSR002503

### Health and Safety at Work (Hazardous Substances) Regulations

IMPORTANT: Quantities of all hazardous substances present at a site contribute to Hazardous Substances Control thresholds.

**Location Certification:** Not required

**Tracking:** Not required

**Certified Handlers:** Not Required

**Secondary containment:** Not required (solid)

Refer to the following for full details:

- Construction Products Group Standard(s) (available at [www.epa.govt.nz](http://www.epa.govt.nz))

- Health and Safety at Work (Hazardous Substances) Regulations (available at [www.legislation.govt.nz](http://www.legislation.govt.nz))

## 16. Other Information

### **Hazard Classification under GHS7:**

**(Previous HSNO classes for reference only)**

6.1E (respiratory) – Substances that are a respiratory tract irritant.

6.3A - Substances that are irritating to the skin.

6.4A - Substances that are irritating to the eye.

6.9B - Substances that have specific systemic or target organ toxicity.

Note: Crystalline Silica (quartz) in respirable form is a known or presumed human carcinogen, however the EPA classification information includes the following statement:

EXPERT JUDGEMENT: This substance only triggers 6.7A if it is in the form of a fine respirable dust in an occupational (chronic exposure) setting.

Total respirable silica was below reporting levels; however, it should be assumed that silica content is sufficient to create a silica hazard in work conditions where fine dust becomes airborne.

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Prepared with reference to:

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

**Current Version:** 1 August 2020

**Revision Information:**

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

This revision: Updated existing SDS to current NZ requirements and Workplace Exposure Standards.

Previous revision dated: 15 November 2017

**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.

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--END OF SDS