

# Safety Data Sheet

Eziline Part A

## 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** EZILINE® Part A

Recommended use: Mortar

**Supplier:** Steel Mains Pty Ltd

**ABN:** 73 004 843 056

**Street Address:** 125- 175 Patullos Lane, Somerton, VIC, 3062 Australia

**Telephone:** + 613 9217 3110

**Facsimile:** + 613 0305 3953

**Website:** [www.steelmain.com](http://www.steelmain.com)

**Emergency telephone number:** 13 11 26 (Poisons Information Centre)

## 2: HAZARDOUS INFORMATION

### 2.1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERA

#### **Physical Hazards**

Not classified as a Physical Hazard

#### **Health Hazards**

Skin Corrosion/Irritation: Category 2

Serious Eye Damage / Eye Irritation: Category 1

Specific Target Organ Systemic Toxicity (Single Exposure): Category 3 (Respiratory Irritation)

#### **Environmental Hazards**

Not classified as an Environmental Hazard

### 2.2 GHS Label elements

**Signal word**                      **DANGER**

**Pictogram(s)**



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### Hazard statement(s)

H315	Causes skin irritation.
H318	Causes serious eye irritation.
H335	May cause respiratory irritation.

### Prevention statement(s)

P202	Do not handle until all safety precautions have been read and understood
P261	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves / protective clothing / eye protection/face protection / hearing protection/suitable respirator

### Response statement(s)

P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P310	Immediately call a POISON CENTRE.
P332 + P337 + P313	If skin or eye irritation occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash before re-use.

### Storage statement(s)

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up

### Disposal statement(s)

P501	Dispose of contents/container in accordance with relevant regulations.
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## 2.3 Other hazards

No information provided.

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## 3: COMPOSITION INFORMATION

Name	CAS Number	EC Number	PROPORTION (%)
Quartz (Crystalline Silica)	14808-60-7	238-878-4	45 - 65
Calcium Oxide	1305-78-8	215-138-9	< 5
Portland Cement	65997-15-1	266-043-4	10 - 30
Slags, Ferrous metal, Blast Furnace	65996-69-2	266-002-0	10 - 30
Hexavalent Chromium	18540-29-9	-	< 0.002
Limestone (Calcium Carbonate)	1317-65-3	215-279-6	< 7.5
Gypsum	13397-24-5	603-783-2	< 5
Ashes (Residues)	68131-74-8	268-627-4	< 7.5

- Ingredient Notes**
1. Depending on the original source materials, aggregates may contain varying amounts of Crystalline Silica (Quartz) however this material is unlikely to exceed 0.1% Respirable Crystalline Silica.
  2. Chromium VI is a trace impurity in Portland Cement (< 10 ppm).

## 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

- Eye** If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.
- Inhalation** If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.
- Skin** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.
- Ingestion** For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting.
- First aid facilities** Eye wash facilities and safety shower should be available

### 4.2 Most important symptoms and effects, both acute and delayed

Irritating to the eyes, skin and respiratory system. Chronic over exposure to respirable crystalline silica (quartz) dust may result in silicosis (lung disease) and Chronic Obstructive Pulmonary Disease (COPD). Chronic exposure to non-Quartz mineral dusts may also result in COPD. Principal symptoms of silicosis are coughing and breathlessness. Some individuals may exhibit an allergic response upon exposure to this product, possibly due to the trace amounts of chromium present.

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Respirable Crystalline Silica and hexavalent chromium compounds are classified as carcinogenic to humans (IARC Group 1).

### **4.3 Immediate medical attention and special treatment needed**

Treat as for moderate to strong alkali and symptomatically.

## **5: FIRE FIGHTING MEASURES**

### **5.1 Extinguishing media**

Use an extinguishing agent suitable for the surrounding fire.

### **5.2 Special hazards arising from the substance or mixture**

Non-flammable. May evolve toxic gases if strongly heated.

### **5.3 Advice for firefighters**

Treat as per the requirements for surrounding fires. Evacuate area and contact emergency services. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

### **5.4 Hazchem code**

None allocated.

## **6: ACCIDENTAL RELEASE MEASURE**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Contact emergency services where appropriate.

### **6.2 Environmental precautions**

Prevent product from entering drains and waterways.

### **6.3 Methods of cleaning up**

Contain spillage, then collect and place in suitable containers for reuse or disposal. Avoid generating dust.

### **6.4 Reference to other sections**

See Sections 8 and 13 for exposure controls and disposal.

## **7: HANDLING AND STORAGE**

### **7.1 Precautions for safe handling**

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

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### 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, removed from moisture, incompatible substances and foodstuffs. Ensure packages are adequately labelled, protected from physical damage and sealed when not in use.

### 7.3 Specific end use(s)

No information provided.

## 8: EXPOSURE CONTROLS AND PERSONNEL PROTECTION

### 8.1 Control parameters

#### Exposure standards

Ingredient	Reference	TWA		STEL	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Calcium Carbonate (Limestone, Marble, Whiting)	SWA (AUS)	-	10	-	-
Calcium Oxide	SWA (AUS)	-	2	-	-
Chromium VI compounds (as Cr)	SWA (AUS)	-	0.05	-	-
Gypsum (Calcium Sulfate)	SWA (AUS)	-	10	-	-
Portland cement	SWA (AUS)	-	10	-	-
Quartz (respirable dust)	SWA (AUS)	-	0.05	-	-

#### Biological Limits

No biological limit values have been entered for this product

Ingredient	Reference	Determinant	Sampling Time	BEI
Hexavalent Chromium	ACGIH BEI	Total chromium in urine	End of shift at end of workweek	25 µg/L
	ACGIH BEI	Total chromium in urine	Increase during shift	10 µg/L
	WEL [UK]	Total chromium in urine	Post shift	10 µmol Chromium/mol creatinine in urine
	WES [NZ]	Total chromium in urine	End of shift at end of workweek	30 µg/L
	WES [Proposed]	Total chromium in urine	End of shift at end of workweek	25 µg/L

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### 8.2: Exposure controls

#### **Engineering controls**

All work should be carried out in such a way as to minimize dust generation and reduce potential inhalation to as low as reasonably practicable. Use this product in a well-ventilated area. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Work areas and equipment should be cleaned regularly. For cleaning, do not use compressed air or dry sweeping. Use wet methods or Class M or H vacuums for cleaning equipment and other surfaces. Maintain ambient levels of Respirable Dust and Respirable Crystalline Silica levels below the recommended exposure standards. Use Respiratory Protective Equipment (RPE) only where other controls are not effective in control ambient dust levels.

#### **PPE**

##### **Eye/Face**

Wear safety glasses or dust-proof goggles when handling material to avoid contact with the eyes.

##### **Hands**

Wear PVC, rubber, or cotton gloves when handling material to prevent skin contact.

##### **Body**

Wear long sleeved shirt and full length trousers.

##### **Respiratory**

Personal respiratory protection may be required where dust is airborne. The type of respiratory protection required depends primarily on the concentration of the inhalable and respirable dust in the air, and the frequency and length of exposure time. Wear a well-fitted P2 disposable respirator, or better, when potential exposure to dust exists. A suitable P2 particulate respirator chosen and used in accordance with AS/NZS1715 may be sufficient for many situations, but where high levels of dust are encountered, more efficient cartridge-type or powered respirators or supplied-air helmets or suits may be necessary. Use only respirators that bear the Australian Standardsmark and are fitted and maintained correctly. Dust control measures providing respiratory protection against Respirable Crystalline Silica dust will also minimize and control potential exposure to Portland Cement and Hexavalent Chromium



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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

<b>Appearance:</b>	Grey to off-white powder
<b>Odour:</b>	Light sweet odour
<b>Flammability</b>	Non Flammable
<b>Flash Point (°C):</b>	Not relevant
<b>Boiling point</b>	Not available
<b>Melting point</b>	> 1200°C
<b>Evaporation rate</b>	Not available
<b>PH:</b>	11 to 13
<b>Vapor density:</b>	Not available
<b>Specific Gravity (20 °C):</b>	Not available
<b>Solubility (water):</b>	< 10g/L
<b>Vapour pressure</b>	Not available
<b>Upper explosion limit</b>	Not relevant
<b>Lower explosion limit</b>	Not relevant
<b>Partition coefficient</b>	Not available
<b>Autoignition temperature</b>	Not available
<b>Decomposition Point (°C):</b>	Not available
<b>Viscosity</b>	Not available
<b>Explosive properties</b>	Not available
<b>Oxidising properties</b>	Not available
<b>Odour threshold</b>	Not available

### 9.2 Other Information

Not Applicable

## 10: SUITABILITY AND REACTIVITY

### 10.1 Reactivity

Carefully review all information provided in sections 10.2 to 10.6

### 10.2: Chemical stability

Stable under recommended storage conditions

### 10.3: Possibility of hazardous reactions

Hazardous polymerisation is not expected to occur.

### 10.4: Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources

### 10.5: Incompatible materials

Incompatible with oxidising agents (e.g. hypochlorites), ethanol, acids (e.g. hydrofluoric acid) and interhalogens (e.g. chlorine trifluoride). Water contact may increase product temperature by 2°C to 3°C

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### 10.6: Hazardous decomposition products

May evolve toxic gases if heated to decomposition

## 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

**Acute toxicity** No known toxicity data is available for this product. Based on the available data, the classification criteria are not met

Information available on the ingredients:

Ingredient	Oral Toxicity (LD50)	Dermal Toxicity (LD50)	Inhalation Toxicity (LC50)
Limestone (Calcium Carbonate)	> 5000 mg/kg (rat)	-	-

**Skin** Irritating to the skin. Contact with powder or wetted form may result in irritation, rash and dermatitis.

**Eye** Causes serious eye damage. Contact with moisture in the eyes may result in irritation, lacrimation, pain, redness, conjunctivitis, and possible alkaline burns aided by mechanical irritation and abrasion.

**Sensitization** This product is not classified as a skin or respiratory sensitiser. However, some individuals may exhibit an allergic response upon exposure to cement, possibly due to trace amounts of chromium.

**Mutagenicity** Insufficient data available to classify as a mutagen.

**Carcinogenicity** This product may contain trace amounts of respirable crystalline silica which is classified as carcinogenic to humans (IARC Group 1). However, there is sufficient information to conclude that the relative risk of lung cancer from exposure to crystalline silica is increased in persons with silicosis. Therefore, preventing the onset of silicosis will also reduce the cancer risk. Hexavalent chromium compounds are classified as carcinogenic to humans (IARC Group 1), however due to the trace amounts present, no adverse effects are expected due to this compound.

**Reproductive** Insufficient data to classify as a reproductive toxin.

**STOT – single exposure** Irritating to the respiratory system. Over exposure may result in irritation of the nose and throat, with coughing. High level exposure may result in breathing difficulties.

**STOT – repeated exposure** Not classified as causing organ damage from repeated exposure. Repeated exposure to respirable silica may result in pulmonary fibrosis (silicosis), however due to the low levels of respirable crystalline silica in this product, adverse health effects



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are not anticipated with normal use. Principle symptoms of silicosis are coughing and breathlessness. In the wet state, the likelihood of an inhalation hazard is reduced.

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

### **12.1 Toxicity**

May be harmful to the aquatic environment due to the alkaline nature of the product. This product is non-toxic to aquatic organisms when present in the cured solid.

### **12.2 Persistence and degradability**

Product is persistent and would have low degradability.

### **12.3 Bioaccumulative potential**

This product is not expected to bioaccumulate.

### **12.4 Mobility in soil**

A low mobility would be expected in a landfill situation

### **12.5 Other adverse effects**

Avoid release to drains and waterways

## 13: DISPOSAL CONSIDERATIONS

### **13.1 Waste treatment methods**

**Waste Disposal** Reuse or recycle where possible. Alternatively, ensure product is covered with moist soil to prevent dust generation and dispose of to an approved landfill site. Contact the manufacturer/supplier for additional information (if required)

**Legislation** Dispose of in accordance with relevant local legislation

## 14: TRANSPORT INFORMATION

**NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG OR IATA**

	<b>LAND TRANSPORT (ADG)</b>	<b>SEA TRANSPORT (IMDG/IMO)</b>	<b>AIR RANSPORT (IATA/ICAO)</b>
<b>14.1 UN Number</b>	None Allocated	None Allocated	None Allocated
<b>14.2 Proper Shipping Name</b>	None Allocated	None Allocated	None Allocated
<b>14.3 Transport hazard class</b>	None Allocated	None Allocated	None Allocated
<b>14.4 Packing Group</b>	None Allocated	None Allocated	None Allocated

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### 14.5 Environmental Hazards

No information provided.

### 14.6 Special precautions for user

Hazchem code      None Allocated

## 15: REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

<b>Poison schedule</b>	A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)
<b>Classifications</b>	Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals (GHS Revision 7).
<b>Inventory listing(s)</b>	<b>AUSTRALIA: AICS (Australian Inventory of Chemical Substances)</b> All components are listed on AICS, or are exempt.

## 16: OTHER INFORMATION

<b>Additional Information</b>	<p><b>PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:</b> The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.</p> <p><b>HEALTH EFFECTS FROM EXPOSURE:</b> It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.</p>
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<b>Abbreviations</b>	ACGIH	American Conference of Governmental Industrial Hygienists
	CAS #	Chemical Abstract Service number - used to uniquely identify chemical compounds
	CNS	Central Nervous System
	EC No.	European Community Number
	EMS	Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)
	GHS	Globally Harmonized System
	GTEPG	Group Text Emergency Procedure Guide
	IARC	International Agency for Research on Cancer
	LC50	Lethal Concentration, 50% / Median Lethal Concentration
	LD50	Lethal Dose, 50% / Median Lethal Dose
	mg/m <sup>3</sup>	Milligrams per Cubic Metre
	OEL	Occupational Exposure Limit
	pH	relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
	ppm	Parts Per Million
	STEL	Short-Term Exposure Limit
	STOT-RE	Specific target organ toxicity (repeated exposure)
	STOT-SE	Specific target organ toxicity (single exposure)
	SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
	SWA	Safe Work Australia
	TLV	Threshold Limit Value
	TWA	Time Weighted Average

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### Literary reference

This Safety Data Sheet has been prepared by the information supplied to Steel Mains PTY LTD from its supplier on behalf of its client.

This SDS summarizes at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since Steel Mains Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this SDS in the context of how the user intends to handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact Steel Mains Pty Ltd.

Our responsibility for product as sold is subject to our standard terms and conditions of which is sent to our customers and is also available upon request.

Reason(s) For Issue: Amendments made to contents based on supplier information and in response to GHS requirements

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