

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

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 AUSTRALIAN WHS REGULATIONS

GHS classification(s)

Specific Target Organ Systemic Toxicity (Repeated Exposure): Category 2

Skin Corrosion/Irritation: Category 2

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

Serious Eye Damage / Eye Irritation: Category 2A

2.2 Label elements

Signal word WARNING

Pictogram(s)



Hazard statement(s)

| | |
|------|--|
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |

Safety Data Sheet



Prevention statement(s)

- P260 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.

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.
P314 Get medical advice/attention if you feel unwell.
P321 Specific treatment is advised - see first aid instructions.
P362 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.

2.3 Other hazards

No information provided.

3: COMPOSITION INFORMATION

| Name | CAS Number | PROPORTION (%) |
|-----------------------------|------------|----------------|
| Quartz (Crystalline Silica) | 14808-60-7 | 45 - 65 |
| Calcium Hydroxide | 1305-62-0 | < 10 |
| Portland Cement | 65997-15-1 | 10 - 30 |
| Blast Furnace Slag | 65996-69-2 | 10 - 30 |
| Hexavalent Chromium | 18540-29-9 | < 0.002 |
| Additives - Non Hazardous | | < 10 |

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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 silica quartz dust may result in silicosis (lung disease). 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. 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 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

No fire or explosion hazard exists.

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.

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 ³ | ppm | mg/m ³ |
| Calcium Hydroxide | SWA (AUS) | - | 5 | - | - |
| Chromium VI compounds (as Cr) | SWA (AUS) | - | 0.05 | - | - |
| Portland cement | SWA (AUS) | - | 10 | - | - |
| Silica - crystalline Quartz (respirable dust) | SWA (AUS) | - | 0.1 | - | - |

Biological Limits

No biological limit values have been entered for this product

8.2: Engineering controls

Engineering controls Avoid inhalation. Use in well ventilated areas. Where inhalation risk exists, mechanical extraction ventilation is recommended. Maintain dust levels below the recommended exposure standard.

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 | Where an inhalation risk exists wear a Class P1 (Particulate) respirator, dependent on a site specific risk assessment |



9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| | |
|----------------------------------|--------------------------|
| Appearance: | Grey to off-white powder |
| Odour: | Light sweet odour |
| Flammability | Non Flammable |
| Flash Point (°C): | Not relevant |
| Boiling point | Not available |
| Melting point | Not available |
| Evaporation rate | Not available |
| PH: | 11 to 13 |
| Vapor density: | Not available |
| Specific Gravity (20 °C): | Not available |
| Solubility (water): | Slightly soluble |
| Vapour pressure | Not available |
| Upper explosion limit | Not relevant |
| Lower explosion limit | Not relevant |
| Partition coefficient | Not available |
| Autoignition temperature | Not available |
| Decomposition Point (°C): | Not available |
| Viscosity | Not available |

Explosive properties Not available
Oxidising properties Not available
Odour threshold Not available

9.2 Other Information

Density 1700 kg/m³ to 1900 kg/m³

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

10.6: Hazardous decomposition products

May evolve toxic gases if heated to decomposition

11: TOXICOLOGICAL INFORMATION

Acute toxicity Information available on this product:

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) |
|-------------------|----------------------|------------------------|----------------------------|
| CALCIUM HYDROXIDE | 7300 mg/kg (mouse) | - | - |

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

Eye Irritating to the eyes. Contact may result in irritation, lacrimation, pain, redness, corneal burns, and possible permanent damage.

| | |
|---------------------------------|--|
| 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 contains crystalline silica and trace amounts of hexavalent chromium compounds which are 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. |
| 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 | Repeated exposure to respirable silica may result in pulmonary fibrosis (silicosis). Silicosis is a fibronodular lung disease caused by disposition in the lungs of fine respirable particles of crystalline silica. 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: ECOLOGICAL INFORMATION

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

No data were identified for this substance

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

12.1 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

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

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

Poison schedule 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)

Safety Data Sheet



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| Classifications | Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals. The classifications and phrases listed below are based on the Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(2004)]. |
| Hazard codes | Xi Irritant Xn Harmful |
| Risk phrases | R36/37/38 Irritating to eyes, respiratory system and skin R48/20 Harmful: danger of serious damage to health by exposure through inhalation |
| Safety phrases | S22 Do not breathe dust S24/25 Avoid contact with skin and eyes S36/37 Wear suitable protective clothing and gloves |
| Inventory listing(s) | AUSTRALIA: AICS (Australian Inventory of Chemical Substances) All components are listed on AICS, or are exempt. |

16: OTHER INFORMATION

| | |
|-------------------------------|---|
| Additional Information | <p>CEMENT CONTACT DERMATITIS: Individuals using wet cement, mortar, grout or concrete could be at risk of developing cement dermatitis. Symptoms of exposure include itchy, tender, swollen, hot, cracked or blistered skin with the potential for sensitisation. The dermatitis is due to the presence of soluble (hexavalent) chromium.</p> <p>RESPIRATORS: In general, the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn, ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary</p> <p>PERSONAL PROTECTIVE EQUIPMENT GUIDELINES: The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as 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> |
|-------------------------------|---|

HEALTH EFFECTS FROM EXPOSURE:

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 ChemAlert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

Abbreviations

| | |
|-------------------|---|
| 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 ³ | 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 |

Safety Data Sheet



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

Printed documents are uncontrolled. Refer to www.steelmain.com regularly for a more recent copy of the SDS where it exists.