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**MATERIAL SAFETY DATA SHEET (MSDS)**

**PRODUCT: PANEL PATCH**

**DATE OF ISSUE: OCTOBER 2007**

**HAZARDOUS NATURE**

This product contains Cement which is classified as hazardous according to the criteria of Worksafe Australia.

**IDENTIFICATION**

|                        |   |
|------------------------|---|
| Product Name:          | PANEL PATCH   |
| UN Number:             | None Allocated  |
| Dangerous Goods Class: | None Allocated  |
| Hazchem Code:          | None Allocated  |
| Poisons Schedule:      | None Allocated  |
| Other Names:           |   |
| Use:                   | The above mixture is machine mixed with tap water then used as patching compound on moulded articles. |

**PHYSICAL DESCRIPTION PROPERTIES**

|                            |  |
|----------------------------|--|
| Appearance And Colour:     | Fine Powder with inert filler and thickener – cement grey shade of colour.                       |
| Vapour Pressure:           | Not Relevant   |
| Specific Gravity:          | Not Relevant   |
| Flammability:              | Not Relevant   |
| Boiling Point:             | Not Relevant   |
| Melting Point:             | Not Relevant   |
| Flash Point:               | Not Relevant   |
| Auto Ignition Temperature: | Not Applicable   |
| Volatility:                | Not Applicable   |
| Solubility In Water:       | Part soluble in water to form slurry mixture – Cement component reactive (hydration) with water. |



## INGREDIENTS

| <u>SUBSTANCE NAME</u>                     | <u>CAS NUMBER</u> | <u>PROPORTION</u> |
|---|-------------------|-------------------|
| Calcium Silicate (hydrate)                | -                 | 20-65 %           |
| Other Non Hazardous Auxiliary Ingredients | -                 | 35-65%            |

## HEALTH HAZARD INFORMATION

### Health Effects

- Swallowing: May cause burning sensation and abdominal discomfort. Corrosive to mouth and throat.
- Eye: Short term exposure: irritating. Long term exposure: irritating may cause inflammation of the cornea.
- Skin: Short term exposure: Irritating. Long term exposure: wet cement, especially as an ingredient in plastic (unhardened) concrete, mortar or slurry, is slightly caustic and can dry the skin and cause alkali burns. There may also be trace amounts of water-soluble hexavalent chromium present in Portland Cement (0-20ppm), which may cause allergic dermatitis to some individuals.
- Inhaled: Irritating to nose, throat and respiratory system causing coughing and sneezing.

### Chronic Health Effects

- Inhaled: Repeated inhalation of dust containing crystalline silica can cause bronchitis, silicosis (scarring of the lung) and lung cancer. It may also increase the risk of scleroderma (a disease affecting the connective tissue of the skin, joints, blood vessels and internal organs).
- Studies have shown that smoking increases the risk of bronchitis and lung cancer in persons exposed to crystalline silica.
- Small quantities of crystalline silica may be present in this product as a result of impurities in its ingredients. Crystalline silica dust derived from the use of this product could be inadvertently inhaled during the dry cutting, of dry product.

### First Aid Treatment

- Skin: Wash with tepid soapy water.
- Eyes: Irrigate with copious water for at least 15 minutes. Seek medical attention if symptoms persist.
- Swallowed: Wash mouth and lips with water. Do not induce vomiting, give water to dilute stomach contents. Seek medical attention if symptoms persist.
- Inhaled: Move to fresh air, wash with water and seek medical attention if effects persist.
- Advice to Doctor: Treat symptomatically.

## PRECAUTIONS FOR USE

### Exposure Limits

Worksafe Australia Exposure Standard:

Crystalline silica (quartz): 0.2 mg/m<sup>3</sup> TWA (time-weighted average) as respirable dust (< 7 micron particle size).

Dust (NOS – not otherwise specified): 10mg/m<sup>3</sup> TWA as inspirable dust.

However, where a State or Territory prescribes a lower exposure standard, the lower exposure standard applies.

### Manufacturer's Recommendation

Keep exposure to dust as low as practicable. If inspirable dust levels are kept below 2 mg/m<sup>3</sup>, health problems such as skin, eye and respiratory irritation will be minimised.

Respirable crystalline silica (quartz) exposure levels should be kept below 0.1 mg/m<sup>3</sup> TWA. Avoid repeated skin contact with wet slurry and dry and wet mixture.

### Engineering Controls

Avoid generating dust. All work with Panel Patch should be carried out in such a way as to minimise exposure to dust and repeated skin contact. Where dust could be generated whilst handling Mould Mixture, use local mechanical ventilation or extraction in areas where dust could escape into the work environment. For bulk deliveries, closed pumping systems are recommended. For handling of individual bags, follow personal protection instructions below if no local exhaust ventilation is available.

Work areas should be cleaned regularly by wet sweeping or vacuuming. If generating dust cannot be avoided, see personal protection recommendations below.

### Personal Protection

- Skin:** Wear loose comfortable protective clothing and impervious boots. Apply barrier creams to hands or wear gloves (AS 2161). Wash thoroughly after handling. Wash clothes regularly.
- Eyes:** Safety spectacles with side shields or safety goggles (dust resistant AS/NZS 1336) should be worn if dust is likely to be generated.
- Respiratory:** If dust is generated, wear a class P1 or P2 particulate respirator (AS/NZS 1715 & 1716). Use only respirators which bear the Australian Standards mark and are fitted correctly. Note that persons with facial hair will have difficulty in obtaining a satisfactory face seal. For alternatives, see AS/NZS 1715: Selection and Use of Respiratory Protective Devices.
- Flammability:** Not flammable. Does not support combustion of other material

## SAFE HANDLING INFORMATION

- Storage and Transport:** Transportation is by rail, road or ship in bulk or bag form. Keep in moisture proof containers/silos to prevent hardening. Lined paper sacks are the recommended forms of storage.
- Spills and Disposal:** Follow safety requirements for personal protection under "Precautions for Use" on skin, eye and respiratory protection and sweep, vacuum or shovel whilst trying to minimise dust generations. Collect in containers and dispose of as trade waste in accordance with local authority guidelines. Keep out of sewer and storm water drains.
- Fire/ Explosion Hazard:** Not Flammable. Does not cause dust explosions.



### **Other Information**

In June 1997, crystalline silica was re-evaluated by the International Agency for Research on Cancer (IARC): "Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1)".

Smoking: Cigarette smoking increases the risk of occupational respiratory diseases. It is recommended that all storage and work areas should be smoke-free zones.

### **CONTACT POINT**

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