

**1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

Product name: **FLOW CABLE**

Other name: None allocated

Recommended use: Shrinkage compensating powder admixture.

Supplier: BASF Construction Chemicals Australia Pty Ltd. ABN 46 000 450 288  
BASF New Zealand Ltd.

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**2. HAZARDS IDENTIFICATION**

Hazard classification: HAZARDOUS SUBSTANCE. NON DANGEROUS GOODS.  
Hazardous according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001

Hazard Designation: Xi - Irritant  
Silica, Crystalline Quartz – Human Carcinogen

HSNO Classification

6.3A	Irritating to the skin
6.9	Irritating to the respiratory system
8.3A	Causes serious damage to eyes

Risk phrase(s):

R37/38	Irritating to respiratory system and skin.
R41	Risk of serious damage to eyes.
S2	Keep out of reach of children.
S22	Do not breathe dust.
S24/25	Avoid contact with skin and eyes.

Safety phrase(s):

S26	In case of contact with skin and eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S46	If swallowed, seek medical advice immediately and show this container or label.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Proportion</u>
Quartz filler blend	14808-60-7	< 10%
Portland cement	65997-15-1	10 – < 30%
Calcium oxide	1305-78-8	10 - < 30%
Hexavalent Chromium (contamination from cement)		Very low
Non hazardous ingredients		to 100%

**4. FIRST AID MEASURES**

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According to NOHSC: 2011 (2003) and HSNO CoP 8-1 (September 2006)

- Inhalation:** Avoid breathing dust. Use in well ventilated areas. If inhalation does occur, remove victim from exposure. If difficulty with breathing, administer oxygen. If breathing has stopped administer artificial respiration. Seek medical attention.
- Eyes:** While holding eyes open, gently flood with plenty of fresh water for 15 minutes. Seek medical attention. Skilled personnel should only undertake removal of contact lenses after an eye injury.
- Skin:** Remove contaminated clothing. Remove excess from skin mechanically. Wash contacted areas thoroughly with soap and water. If irritation develops seek medical attention. Wash contaminated clothing before re-use.
- Ingestion:** Not a normal route of injury. Do not induce vomiting; give large quantities of water; get immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquids into lungs. Do NOT give anything by mouth to an unconscious person.

## 5. FIRE FIGHTING MEASURES

- Suitable extinguishing media:** As for surrounding fire.
- Hazards from combustion products:** Not normally combustible. Possible release of CO<sub>2</sub> above 600°C. May fuse at very high temperatures.
- Precautions and equipment for fire fighters:** As for surrounding fire.
- Hazchem code:** None allocated

## 6. ACCIDENTAL RELEASE MEASURES

- Methods and materials for containment and clean up:** Spills should be carefully swept up and then shovelled into appropriately labelled containers. Disposal should be effected by an approved waste disposal organisation according to local regulations.
- Environmental precautions:** Do not allow to enter into drains, sewers or waterways.

## 7. HANDLING AND STORAGE

- Precautions for safe handling:** Wear personal protective equipment (PPE) as per Section 8. Provide for good ventilation. Avoid inhalation of dust. Avoid skin contact.
- Conditions for safe storage:** Keep containers tightly closed; store under cool dry conditions. Keep out of reach of children. Store at 5 to 35°C. Store under cover and away from moisture.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Engineering Controls:** Ensure adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particles below the OEL (Occupational Exposure Limit), suitable respiratory protection must be worn.
- Exposure Standards**
- Silica, Crystalline - Quartz (14808-60-7)  
ES-TWA: 0.1 mg/m<sup>3</sup> (Silica Quartz, respirable, NOHSC)  
ES-TWA#: 0.1 mg/m<sup>3</sup> (QLD); 0.15 mg/m<sup>3</sup> (NSW)  
NZ WES-TWA: 0.2 mg/m<sup>3</sup>
- Portland Cement (65997-15-1)  
ES-TWA: 10 mg/m<sup>3</sup> Portland Cement  
ES-TWA#: 0.05 mg/m<sup>3</sup> Chromium (VI) Compounds (contaminant)  
NZ WES-TWA: 10 mg/m<sup>3</sup>
- Hexavalent Chromium (Contaminant)  
ES-TWA: 0.05 mg/m<sup>3</sup>  
NZ WES-TWA: 0.05 mg/m<sup>3</sup>

**Personal Protective Equipment (PPE):**

<u>Respiratory protection:</u>	At high dust levels, wear a Class P3 (Particulate) respirator or a Powered Air Purifying Respirator (PAPR) with Class P3 (Particulate) filter. Where an inhalation risk exists, wear a Class P1 (Particulate) Respirator.
<u>Glove type (AS2161):</u>	Impervious gloves e.g. PVC or nitrile rubber gauntlets.
<u>Eye protection:</u>	Chemical worker's goggles, well fitting safety glasses or full face shield.
<u>Clothing:</u>	No special clothing required but overalls are suggested as a general precaution, especially where heavy contamination is likely.
<u>Other:</u>	Use barrier creams to protect skin from contact with the material. Do not eat drink or smoke while working with the material. Always wash hands before smoking, eating, drinking or using the toilet and after finishing work. Observe the usual precautions when handling chemicals.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<u>Appearance:</u>	Grey powder
<u>Odour:</u>	Cement-like
<u>pH:</u>	11 – 13 (aqueous solution)
<u>Vapour pressure:</u>	Not available
<u>Solubility in water:</u>	Insoluble
<u>Specific gravity:</u>	approx. 2.0 g/cm <sup>3</sup>
<u>Melting point:</u>	> 1200°C
<u>Flash point:</u>	Not applicable
<u>Boiling point:</u>	Not applicable
<u>Flammability limits:</u>	Not applicable
<u>Viscosity:</u>	Not applicable

**10. STABILITY AND REACTIVITY**

<u>Chemical stability:</u>	Normally stable when stored in original sealed containers in cool dry conditions. Not sensitive to mechanical impact.
<u>Incompatible materials:</u>	Strong oxidising agents, acids and alkalis.
<u>Hazardous decomposition products:</u>	May evolve toxic gases if heated to decomposition.
<u>Hazardous reactions:</u>	Hazardous polymerisation will not occur.

**11. TOXICOLOGICAL INFORMATION**

<u>Health Hazard Summary:</u>	Slightly corrosive. Avoid eye or skin contact or dust inhalation. This product has the potential to cause acute and chronic health effects with over exposure. Crystalline silica can cause silicosis (lung disease) with chronic over exposure. Crystalline silica and hexavalent chromium compounds are classified as carcinogenic to humans (IARC Group 1).
<u>Inhalation:</u>	The dust is harmful and irritating to the upper respiratory tract and lungs. The materials present a hazard from repeated exposures over long period.
<u>Eyes:</u>	The dust is abrasive and irritating to the eyes and may be capable of causing corneal scarring.
<u>Skin contact:</u>	Slight irritant and may cause dermatitis. In the presence of moisture such as perspiration it

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According to NOHSC: 2011 (2003) and HSNO CoP 8-1 (September 2006)

can dry skin and cause alkali burns.

**Ingestion:**

Swallowing can result in irritation and burns to mouth and stomach

**Toxicity Data:**

Silica, Crystalline - Quartz (14808-60-7)

Carcinogenicity: Classified as a human carcinogen (IARC Group 1)

Hexavalent Chromium (Contaminant) (Not Available)

Carcinogenicity: Confirmed human carcinogen (IARC Group 1)

Health Surveillance: Required [NOHSC:1005(1994)]

**12. ECOLOGICAL INFORMATION****Ecotoxicity:**

Do not discharge into drains, sewers or waterways because of the high alkalinity. Due to its alkalinity this product is harmful to fish and other aquatic life forms. Degradability not determined.

**Aquatic toxicity**

Not available

**13. DISPOSAL CONSIDERATIONS****Disposal method and containers:**

Ensure containers are sealed. Avoid dust generation. Dispose of to an approved land fill site. Refer to Waste Management Authority.

**Special precautions (landfill/incineration):**

None known

**14. TRANSPORT INFORMATION****UN number:**

None allocated

**UN proper shipping name:**

None allocated

**Dangerous goods class:**

None allocated

**Subsidiary risk:**

None allocated

**Packing group:**

None allocated

**Hazchem code:**

None allocated

**15. REGULATORY INFORMATION****NICNAS / AICS:**

All components are listed

**Poisons Schedule:**

Not Scheduled

**HSNO Classifications:**

6.3A, 6.9, 8.3A

**ERMA Group Standard:**

HSR002544

**ERMA / NZIoC:**

All components are listed

**Tracking:**

Not required

**Approved Handler:**

Not required

**16. OTHER INFORMATION****Reason for issue:** Update to combined Australia and New Zealand MSDS.**Cement Contact Dermatitis:** Individuals using wet cement, mortar, grout or concrete could be at risk of developing cement contact dermatitis. Symptoms of exposure include itchy, tender, swollen, hot, cracked or blistering skin with the potential for sensitisation. The dermatitis is due to the presence in the cement, of soluble hexavalent chromium.

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the



The Chemical Company

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According to NOHSC: 2011 (2003) and HSNO CoP 8-1 (September 2006)

information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request. All information contained in this MSDS is as accurate and up-to-date as possible. No warranty expressed or implied is made as to its accuracy, reliability or completeness.