

Material Safety Data Sheet (MSDS)

Cement Pigment – Brown

This product is classified as non-hazardous according to criteria of NOHSC (Worksafe Australia).

Section 1: Identification of the Material and Supplier

Company Details – Supplier

Saffire Blue, Inc.
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Tillsonburg, ON N4G 4G9 Canada
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Order Online: SaffireBlue.ca

CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300
International CHEMTREC, call: 1-703-527-3887

Product: Cement Pigment: Brown
Other Names: Bayferrox Brown 686, Light Brown, Medium Brown 686, Dark Brown
Use: Cement Pigment – Brown oxide is used as a cement colorant.

Section 2: Hazards Identification

Hazchem Code: None Allocated **UN Number:** None Allocated
Poisons Schedule: None Allocated **Dangerous Goods Class:** None Allocated

Risk Phrases

R36/37/38: Irritating to eyes, respiratory system and skin.
R43: May cause sensitisation by skin contact.
May be discomforting. Person with pre-existing respiratory conditions may be affected to a greater extent.

Safety Phrases

S22: Do not breathe dust.
S24/25: Avoid contact with skin and eyes.
S28: After contact with skin wash immediately with plenty of soap.
S29: Do not empty into drains.
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

Section 3: Composition/Information on Ingredients

Ingredients	CAS Number	Proportion
Iron Oxide (Fe ₃ O ₄)	1317-61-9	30-70%
Iron Oxide (Fe ₂ O ₃)	1309-37-1	30-70%

Section 4: Health Hazard Information

Short Term (Acute) Exposure:

Swallowed:	No significant effects
Eyes:	Irritating to the eyes. Seek medical attention if irritation persists.
Skin:	No significant effects
Inhaled:	Cement pigment is irritating to the nose, throat and respiratory tract causing coughing and sneezing.

Long Term (Chronic) Exposure:

Eyes:	In dust form, it may cause mechanical irritation.
Skin:	No significant effects
Inhaled:	May be discomforting. Persons with pre-existing respiratory conditions may be affected to a greater extent.

FIRST AID MEASURES

Swallowed:	Rinse mouth and lips with water.
Eyes:	Flush thoroughly with flowing water for 15 minutes. Check for and remove contact lenses. If irritation symptoms persist, seek medical attention.
Skin:	Wash thoroughly with water. Shower if necessary.
Inhaled:	Move to fresh air, away from dusty area. If symptoms persist, seek medical attention. If unconscious, place in recovery position and seek medical attention immediately.
First Aid Facilities:	Eye wash station.
Advice to Doctor:	Treat symptomatically.

Section 5: Fire Fighting Measures

Fire/Explosion Hazard:None. Cement Pigments are stable substances, compatible with most other building materials. Burning may produce obnoxious and toxic fumes.

Hazchem Code:	None allocated
Flammability:	Not flammable
Extinguishing Media:	Use extinguishing agent suitable for surrounding fire
Hazards from Combustion Products:	None known
Special Protective Precautions and equipment for fire fighters:	Wear self-contained breathing apparatus

Section 6: Accidental Release Measures

Spills and Disposal: Pigment spills are best cleaned up by vacuum device. Where sweeping or shovelling is required a fine water spray should be applied to prevent the dispersion of dust into the air. Personnel exposed to pigment powder in confined environments should use relevant PPE. Keep product out of storm water and sewer drains. Dispose of without creating dust.

Section 7: Handling and Storage

Storage: Storage of pigment may be in containers or plastic lined multi-ply paper bags. Keep in a cool dry environment. Store in original container.

Handling: Avoid dust formation.

Section 8: Exposure Controls/Personal Protection

Exposure Limits: **Fine Dust** : 3 mg/m³ TWA measured as inspirable dust

Recommendations: Keep exposure to dust as low as practicable, to minimise health problems such as skin, eye and respiratory irritation. Cigarette smoking increased the risk of occupational respiratory disease. It is recommended that all storage and work areas be smoke free zones.

Engineering Controls: All work with pigments should be carried out in such a way as to minimise exposure to dust and repeated skin contact. When handling cement pigments, 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 instructions below if no local exhaust ventilation is available. Work areas should be cleaned regularly by wet sweeping or vacuuming. If generated dust cannot be avoided follow personal protection recommendations.

Personal Protection:

Skin

If handling cement pigments, wet concrete, mortar or grout personnel should wear loose comfortable protective clothing and impervious boots. Apply barrier cream to hands or wear gloves (AS 2161).

Wash skin thoroughly after handling. Wash work clothing regularly and separately from other clothing. It is recommended workers should shower with soap and water.

Eyes

Safety Glasses with side shields or safety goggles (dust resistant AS/NZ 1336) should be worn in areas if dust is likely to be generated.

Respiratory

In dusty environments use a filter mask AS1715 and AS1716 (Class P1 or P2) and tight fitting goggles (AS/NZS 1336).

Use only respirators that bear the Australian Standards mark and are fitted correctly. Note that persons with facial hair will have difficulty in obtaining a satisfactory face seal.

Ventilation: Local dust extraction and collection may be used, if necessary, to control airborne dust levels.

Flammability: Non-flammable. Does not support combustion of other materials.

Section 9: Physical and Chemical Properties

Appearance:	Brown powder		
Odour:	No odour		
pH:	Not applicable	Specific Gravity/Density:	4.8 g/cm ³ approx
Boiling Point/Range:	N/A	Freezing/Melting Point:	N/A
Solubility:	Insoluble	Vapour Pressure:	Not applicable
Flash Point:	Not applicable		
Ignition Temperature:			

Section 10: Stability and Reactivity

Chemical Stability:	Stable under normal conditions
Conditions to Avoid:	Avoid dust formation. At >80 Centigrade product may oxidise and this may generate additional heat. Do not store near heat sources.
Incompatible Materials:	None known
Hazardous Decomposition Products:	None with normal processing
Hazardous Reactions:	None under normal conditions

Section 11: Toxicological Information

LD₅₀ (oral) in rats >5000mg/kg

Section 12: Ecological Information

Ecotoxicity:	Acute LC ₅₀ in fish (Leuciscusidus) >1000mg/L (96 hour exposure)
Persistence and Degradability:	Product is persistent and would have a low degradability.
Mobility:	A low mobility would be expected in a landfill situation.

Section 13: Disposal Considerations

Cement pigment can be disposed of in approved chemical landfill or incinerated in accordance with applicable regulations.

Keep material out of storm water and sewer drains.

Measures should be taken to prevent dust generation and personnel should use recommended personal protective equipment

The product is not considered to be hazardous waste.

Section 14: Transport Information

Transportation is done in bag form by Rail and Road.

UN Number:	None allocated
Proper Shipping Name:	None allocated
Class and Subsidiary Risk:	None allocated
Packing Group:	None allocated
Special precautions for user:	Avoid generating and breathing dust
Hazchem Code:	None allocated

Section 15: Regulatory Information

Australian Legislation: Classified Not Hazardous according to NOHSC (Worksafe Australia) criteria.

Section 16: Other Information

Emergency Contact Number:

Contact Person: Technical Manager

Next Review Date for this MSDS: 31 December 2016.

Australian and New Zealand Standards:

AS 2161: Industrial Safety Gloves and Mittens (excluding electrical and medical gloves).

AS/NZ 1336: Recommended Practices for Occupational Eye Protection.

AS/NZS 1715: Selection, use and maintenance of respiratory protective devices.

AS/NZS 1716: Respiratory protective devices.

AS/NZS 4501: Occupational protective clothing.

Advice Note:

Saffire Blue Inc. believes the information in this document to be accurate as at the date of preparation noted below, but, to the maximum extent permitted by law, Saffire Blue Inc. accepts no responsibility for any loss or damage caused by any person acting or refraining from action because of this information.

The provision of this information should not be construed by anyone as a recommendation to use this product. In particular, no one should use any product in violation of any patent or other intellectual proprietary rights or in breach of any statute or regulation.

Users should rely on their own knowledge and inquiries and make their own determination as to the applicability of this information in relation to their particular purposes and specific circumstances. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace and in conjunction with other substances or products.

This MSDS must be reviewed before 31 December 2016.