

1. Identification of the substance/preparation and company

Product Name: Flowscreed Industrial Top

Application: A single component, cement based screed for levelling floors.
Can be hand applied by trowel or pump applied by specialised mixing and pumping equipment.

Manufacturer: Flowcrete SA (Pty) Ltd
176 Voortrekker Street
Jacobs
4052

Telephone Number: (031) 461 3411

2. Composition/information on constituents

Chemical Name	EINECS No.	CAS No.	% by weight	Symbols and Risk Phrases
Portland Cement	266-043-4	65997-15-1	< 5	Xi; R41.
Chromium (VI)	-	-	< 2 ppm	Xi; R43.
GGBS	266-002-0	65996-69-2	10 - 30	Xi; R36/38
Respirable crystalline silica (in silica sands)	-	14808-60-7	trace	Xn; R48:R20

Also contains chemical modifiers (mainly masked by the cementitious ingredients) and comprise of silicates, aluminates, sulphates, polymers, anti foam and wetting agents, which are not classified as hazardous in line with CHIP Regulations.

See section 16 Additional information, for full text regarding symbols and Risk phrases.

3. Hazards Identification

Irritating to eyes and skin. The lime, calcium silicates and alkalis within the cement and GGBS are partially soluble and when mixed with water will give rise to a potentially hazardous alkaline solution. The eyes are particularly vulnerable and damage will increase with contact time. Contact with wet cement may cause irritation, dermatitis or burns.
Contact between cement powder and body fluids (e.g. sweat and eye fluid) may also cause skin and respiratory irritation, dermatitis or burns.

4. First Aid measures

- Inhalation** : If irritation occurs, move to fresh air.
If nose or airways become inflamed, seek medical advice.
- Skin contact** : Wash the affected area with soap and plenty of water.
Remove any contaminated clothing as soon as possible. Launder clothing before re-use.
- Eye Contact** : Hold eyelids apart and immediately flush with plenty of water for at least 15 minutes.
Seek medical attention immediately.

Ingestion : Wash out mouth, do not swallow mouthwash. Drink plenty of water. Seek medical attention.
Do not induce vomiting unless under medical supervision.

5. Fire-fighting measures

This product is not flammable and will not facilitate combustion with other materials.

6. Accidental release measures

Personal precautions : Use personal protective equipment as detailed in Section 8.

Methods for cleaning up : Recover the spillage in a dry state if at all possible, product will set in situ if not removed. Minimise generation of airborne dust. Shovel into suitable container.
Dispose in accordance with Section 13.

7. Handling and storage

Handling : Use personal protective equipment as detailed in Section 8.
Handle and open container with care. Do not eat, drink or smoke when handling.

Storage : Keep containers tightly closed and store in a dry, cool, well-ventilated place.
Keep away from drink, food, food containers and animal feeding stuffs.

8. Exposure controls/personal protection

Occupational Exposure Standard for dust, Total inhalable dust : 10mg/m³ 8h TWA (8 hour time weighted average)

Respirable dust : 4 mg/m³ 8h TWA
Maximum exposure limit for Silica, respirable crystalline dust : 0.1mg/m³ 8h TWA (CHAN)

Engineering measures to reduce exposure : Where reasonably practical, dust exposure should be controlled by engineering methods.

Personal protective equipment :

Respiratory protection : Wear a particulate dust mask when handling powder.

Eye protection : Dust-proof goggles should be worn whenever there is a risk of cement powder or any cement/water mixture entering the eye.

Skin and body protection : If possible wear waterproof gloves, waterproof trousers and wellingtons. Particular care should be taken to ensure wet product does not enter the wellingtons and that the applicator does not kneel on the wet product so that unprotected skin comes into contact with the product. Remove contaminated clothing and wash skin thoroughly after use.

9. Physical and chemical properties

Appearance	: Powder/sand mix	pH	: 11 – 12 when wet
Odour	: Not applicable	Relative Density	: 1.2 – 1.3
Boiling Point	: Not applicable	Water solubility	: Partial
Flashpoint	: Not applicable (not flammable)	Water miscibility	: Not applicable
Explosion limits	: Not applicable (not explosive)		
Vapour pressure	: Not applicable		

10. Stability and reactivity

Material is stable when stored under normal dry conditions.

Chromium VI content is not an issue for this material - Shelf life is 6 months.

Conditions to avoid : None

Materials to avoid : None

Hazardous decomposition products : None

11. Toxicological information

Corrosivity/irritation : Skin – Cement powder or any cement/water mixture may cause irritant contact dermatitis, allergic dermatitis and/or burns.

Eye – Cement is a severe eye irritant. Mild exposure can cause soreness. Gross exposures or untreated mild exposures can lead to chemical burning and ulceration of the eye.

Respiratory tract – Cement powder may cause inflammation of the mucous membranes.

Ingestion – The swallowing of small amounts of cement or any cement/water mix is unlikely to cause significant reaction. Larger doses may result in irritation of the gastrointestinal tract.

Sensitisation : The hexavalent chromium in the cement can lead to sensitisation of the skin. If sensitised, an allergic eczema will result upon contact with the skin. Control of the Chromium VI content is not an issue for this material, < 2 ppm from source, no reducing additives required.

Repeated-dose toxicity : High repeated exposures to cement in excess of the OES have been linked with thinitis and coughing.

Further information : In the UK, the HSE has issued a CHAN (Chemical Hazard Alert Notice 35) for respirable crystalline silica, with the recommendation that exposure levels be kept down to 0.1 mg/m³. Current evidence indicates that if workers are exposed regularly to 0.3mg/m³ there is a much greater risk of lung damage than had been previously thought. Respirable crystalline silica dust may cause silicosis, a lung disease. Long term exposures to high levels of respirable crystalline silica can also lead to an increased risk of developing lung cancer.

12. Ecological information

Ecotoxicity : The addition of cement and hydrated lime to water will raise the pH and may therefore be toxic to aquatic life in some circumstances.

Mobility : The product is not volatile and insoluble in water, will accumulate in the ground.

Persistence and degradability : Mostly non biodegradable. The hydrated lime will react with atmospheric and dissolved carbon dioxide to form calcium carbonate (e.g. chalk).

Bioaccumulative potential : Not applicable.

Additional ecological : High concentrations of lime and cement in water (>100 mg/l) may have a

information

sterilising effect in sewage works.

13. Disposal considerations

- Unused Product/waste from cleaning etc.** : Dispose of in accordance with local and national regulations.
EWC Code: 08 01 99 (Not a hazardous waste).
- Contaminated packaging** : Contaminated packaging must not be disposed of as household waste. Not a hazardous packaging waste.
Use EWC Code: 150101 for paper, 150102 for plastic.

14. Transport information

Not classified as hazardous for transport.

15. Regulatory information

**Classification according to EEC directive:
Hazard Symbols –**



Irritant

R-phrases

R36/38 : Irritating to eyes and skin.

S-phrases

S22 : Do not breathe dust.

S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28 : After contact with skin, wash immediately with plenty of water and soap.

S36/37/39 : Wear suitable protective clothing, gloves and eye/face protection.

Special provisions statement : None.

Hazardous component(s) which must be listed on the label : Cement.

EC Directives: Dangerous Substances Directive, 67/548/EEC & adaptations
Dangerous Preparations Directive, 88/379/EEC
Safety Data Sheets Directive, 91/155/EEC

Statutory Instruments: Chemicals (Hazard Information & Packaging for Supply) Regs 2002.

Control of Substances Hazardous to Health Regs 2002
Environmental Protection (Duty of Care) Regs. 1991.

Codes of Practice Waste Management. The Duty of Care.
Approved classification and labelling guide (Fifth edition). L131.
The compilation of safety data sheets (Third edition).

Guidance Notes Occupational Exposure Limits EH40.
CHIP for Everyone HSG(108).
Construction Information Sheet No 26 (revision 2) CIS26(rev2) – Cement.
Construction Information Sheet No 36 (revision 1) CIS36(rev1) – Silica.
Chemical Hazard Alert Notice 35 – Respirable Crystalline Silica.

16. Other Information

This safety data sheet has been prepared in accordance with CHIP3. The provision of Safety data sheets comes under Regulation 6 of CHIP (CHIP is the recognised abbreviation for the Chemicals, Hazard Information and Packaging Regulations). This is in addition to the Health and Safety at Work Act 1974.

Users of our products should take appropriate measures to ensure working practices are in accordance with the Control of Substances Hazardous to Health Regulations (COSHH). This data sheet does not replace the obligation of the user to provide their own assessment of workplace risk as required by other Health & Safety legislation.

EC Directive relating to the classification, packaging and labelling of dangerous substances and preparations –
Classification(s) and Risk (R) phrase(s) referred to in this document:

Xi : Irritant X : Harmful
n

R36 : Irritating to eyes.
R36/38 : Irritating to eyes and skin.
R41 : Risk of serious damage to eyes.
R43 : May cause sensitisation by skin contact.
R48:R2 : Harmful : danger of serious damage to health by prolonged exposure through inhalation.
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Restrictions on Use

The product is intended for use by appropriately trained applicators.

Training Advice

Applicators need to be trained in:-
The proper use of the application equipment and the mixing to be done in accordance with the technical data sheet and/or separate application/mixing instructions.
Handling and hygiene associated with use of industrial chemicals.
Correct cleaning and disposal methods.

Notes

Beware of cross contamination where different products are in use in the same location.
Take into account the Manual Handling regulations when dealing with the mixed product.

This safety data sheet is based on our present knowledge and experience and is intended to serve as a guide for safe handling of the product regarding to health and environmental aspects.