



## MATERIAL SAFETY DATA SHEET

### 1. Identification of the substance/preparation and company

**Product Name:** Flowshield SL 1000 Filler C

**Application:** This data sheet covers all blends and/or grades of silica sands.

**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
Respirable crystalline silica (in silica sands)		14808-60-7	trace	Xn; R48:R20
Silica sands	238-878-4	14808-60-7	> 99	None

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

### 3. Hazards Identification

Not classified as hazardous, possibility of dust generation on handling.

### 4. First Aid measures

**Inhalation** : If irritation occurs, move to fresh air.

**Skin contact** : Wash with soap and plenty of water.

**Eye Contact** : Hold eyelids apart and immediately flush with plenty of water for at least 15 minutes.  
Seek medical attention.

**Ingestion** : Wash out mouth, do not swallow mouthwash.

### 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** : 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, avoid creating dust.
- Storage** : Keep containers closed and store in a dry, cool, well-ventilated place.

## 8. Exposure controls/personal protection

**Occupational Exposure Standard** for dust, Total inhalable dust : 10mg/m<sup>3</sup> 8h TWA (8 hour time weighted average)

Respirable dust : 4 mg/m<sup>3</sup> 8h TWA

**Maximum exposure limit** for Silica, respirable crystalline dust : 0.1mg/m<sup>3</sup> 8h TWA (CHAN)

**Engineering measures to reduce exposure** : N/A

**Personal protective equipment** :

**Respiratory protection** : Wear a particulate dust mask.

**Eye protection** : Goggles or face mask.

**Skin and body protection** : PVC gloves and overalls.

## 9. Physical and chemical properties

Appearance	: Sand granules	Relative Density	: 2.65
Odour	: None	Water solubility	: insoluble
Boiling Point	: Not applicable	Water miscibility	: Not applicable
Flashpoint	: Not applicable (not flammable)		
Explosion limits	: Not applicable		
Vapour pressure	: Not applicable		

## 10. Stability and reactivity

Material is stable when stored under normal dry conditions.

**Conditions to avoid** : None

**Materials to avoid** : None

**Hazardous decomposition products** : None

## 11. Toxicological information

Sands are not classified as hazardous in accordance with EC regulations.

**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/m<sup>3</sup>. Current evidence indicates that if workers are exposed regularly to 0.3mg/m<sup>3</sup> 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** : LC<sub>50</sub> aquatic toxicity rating not determined.
- Biodegradation** : Resistant.
- Additional ecological information** : This is a non-volatile and insoluble material and will accumulate in the ground.

## 13. Disposal considerations

- Unused Product/waste from cleaning etc.** : Dispose unused material as builders waste, in accordance with local and national regulations.
- Contaminated packaging** : Treat as for unused material.

## 14. Transport information

**Not classified as hazardous for transport.**

## 15. Regulatory information

**Classification according to EEC directive:** Not classified. **Hazard Symbols - None**

### S-phrases

**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** : None.

**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)  
Respirable Crystalline Silica: Phase 1 (EH75/4)  
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 text in sections 8, 11 and 15 has changed. 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:

Xn : Harmful

R48:R2 : Harmful : danger of serious damage to health by prolonged exposure through inhalation.

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### **Training Advice**

Applicators need to be trained in:-

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.

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.