

WOLVERHAMPTON ABRASIVES LTD

HEALTH AND SAFETY DATA SHEET

Material Safety Data Sheet according to 93/112/EC

Product/Trade Name: **Calcium Silicate - SC**
Grades: **SC/Finesse**

Issue date: **September 2003**

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1. Chemical Product and Company Identification

Product Name: **Calcium Silicate**
Supplier: **Wolverhampton Abrasives Ltd**
Orgreave Drive
Handsworth, Sheffield
South Yorkshire ENGLAND
Phone Number: **+44(0)1142 540742**
Fax Number : **+44(0)1142 540913**

In case of emergency call: **Wolverhampton Abrasives Ltd**
Phone Number: +44(0)1142 540742

Contact: **Richard Paddison**

2. Composition / Information on Ingredients

Chemical composition:	%
Iron Oxide (FeO)	0-10
Silica (SiO₂)	35-45
Aluminium Oxide (Al₂O₃)	10-15
Calcium Oxide (CaO)	35-45
Zinc Oxide (ZnO)	0- 0.15
Copper Oxide (CuO)	0- 0.15
Tin Oxide (SnO)	0- 0.15
Nickel Oxide (NiO)	0-0.15
Lead Oxide (PbO)	0- 0.15
Magnesium Oxide (MgO)	6-10
Manganese Oxide (MnO)	0- 10
Free Silica	< 0.1

Calcium Silicate SC is a glass consisting primarily of the oxides calcium, silicon, aluminium and magnesium.

3. Potential Health Hazards:

SC is a granular material that contains a proportion of nuisance dust. Direct contact may irritate skin, eyes, respiratory system and the gastro-intestinal tract

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4. First Aid Measures

Inhalation: **Remove to fresh air.**
Skin: **Wash with water and soap.**
Eye: **Immediately wash with plenty of water.
If irritation persists, consult physician.**
Ingestion: **Give water to drink, wash mouth out if appropriate.**
Advice to physician: **No specific advice.
Treat according to symptoms present.**

5. Fire Fighting Measures

Not applicable

6. Accidental Release Measures

Personal protection: **Wear recommended personal protective equipment.**
Procedure for cleaning and recollection: **Sweep up /collect mechanically. Wetting will reduce airborne dust.
Collection in dosed container, e.g. mini bulk bag or drum.**

7. Handling and storage

Handling: **Avoid breathing dust. Avoid spillage which can cause slippery floors. Use good personal hygiene and housekeeping.**
Storage recommendations: **Keep material in dry warehouse.**
Storage class: **Not applicable.**

8. Exposure controls / Personal protection

Engineering controls: **Use adequate ventilation if dusty conditions prevail when handling**
Exposure guidelines, Dust: **Total dust < 10 mg/m³ 8 hour TWA
Respirable dust < 4 mg/m³ 8 hour TWA
(no free SiO₂, all components are amorphous / non-crystalline).**
Respiratory protection: **Blasting operators should use a CE marked or HSE approved shotblasting helmet. Ancillary workers should use a P2 dust respirator.**
Skin protection: **Protective garments.**
Eye protection: **Blasting helmet as above or goggles.**

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9. Physical and Chemical Properties

Appearance:

Physical state: Solid, angular granules
Colour: Grey/ light brown
Odour: None

Safety relevant data:

Melting point: 1200 degrees C
Lower explosion limit: Not applicable.
Upper explosion limit: Not applicable
Specific gravity: 2.8 kg/dm₃
Bulk density: 1300 kg/dm₃
Hardness: 6-7 Mohs
Solubility in water: Insoluble.

10. Stability and Reactivity

Stable under normal conditions.

11. Toxicological Information

Immediate (acute) effects: Not applicable.

Delayed (subchronic and chronic) effects: Not applicable.

Other data: Dust in concentration above the max. recommended concentrations might cause irritation of eyes and throat, and if inhaled over a prolonged period of time, constitute a

health hazard

12. Ecological Information

Not hazardous.

13. Disposal Considerations.

Discard as non-hazardous inert solid waste according to applicable local regulations. Special disposal procedures may apply to spent abrasive which may contain other materials derived from the substrate being cleaned.

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14. Transport Information

Land Transport:

<i>ADR</i>	Not regulated
<i>GGVS</i>	Not regulated
<i>RID</i>	Not regulated
<i>GGVE</i>	Not regulated

Identification of the product:

Danger number **UN nr:**

River / Canal-transport:

ADNR **Not regulated**

Sea-Transport:

<i>IMDG/GGVSea-code</i>	Not regulated
<i>EmS MFAG</i>	

Air-transport:

ICAO/IATA-DGR **Not regulated**

Other Information: **May be sent by mail.**

15. Regulatory Information

Danger symbols: **not applicable**

National regulations: **not applicable**

16. Other Information

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