

WOLVERHAMPTON ABRASIVES LTD

HEALTH AND SAFETY DATA SHEET

Material Safety Data Sheet according to 93/112/EC

Product/Trade Name: **Calcium Silicate - Stonegrit**
Grades: **Coarse, Fine and Extrafine**

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

<i>Chemical composition:</i>	%
Iron Oxide (FeO)	1-5
Silica (SiO₂)	45-55
Aluminium Oxide Al₂O₃	10-20
Calcium Oxide CaO	25-40
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)	2- 4
Manganese Oxide (MnO)	0-
Free Silica	< 0.1

Calcium Silicate is a synthetic mineral (slag by product from iron refining) produced by quenching in a water bath.

3. Potential Health Hazards:

Eyes and throat can become irritated when exposed to too high concentrations. May cause skin irritation.
There is no significant immediate health, physical or environmental hazards.

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4. First Aid Measures

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

5. Fire Fighting Measures

Not applicable

6. Accidental Release Measures

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

7. Handling and storage

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

8. Exposure controls / Personal protection

<i>Engineering controls: handling</i>	Use adequate ventilation if dusty conditions prevail when the product. For storage and ordinary handling, general ventilation is adequate.
<i>Exposure guidelines, Dust:</i>	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).
<i>Respiratory protection:</i>	Blasting operators should use a CE marked or HSE approved shotblasting helmet. Ancillary workers should use a P2 dust respirator.
<i>Skin protection:</i>	Protective garments.
<i>Eye protection:</i>	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:
ADR **Not regulated**
GGVS **Not regulated**
RID **Not regulated**
GGVE **Not regulated**

Identification of the product:

Danger number **UN nr:**

River / Canal-transport:
ADNR **Not regulated**

Sea-Transport:
IMDG/GGVSea-code **Not regulated**
EmS MFAG

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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