

Calcium Silicate - SC

Product /Trade Name:	Calcium Silicate – SC
Grade:	SC/Finesse
Issue Date:	September 2003
1. Chemical Product and Company Identification	
Product Name	Calcium Silicate
Supplier	Hodge Clemco Ltd Orgreave Drive Sheffield South Yorkshire UK Tel: +44 (0) 114 254 0600 Fax: +44 (0) 114 254 0250
In case of emergency call	Hodge Clemco Ltd Tel: +44 (0) 114 254 0600

2. Composition /Information on ingredients

Chemical Composition	%
Silica (SiO₂)	35-45
Aluminium Oxide (Al₂O₃)	Oct-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 (PhO)	0.0.15
Magnesium Oxide (MgO)	0.1
Manganese Oxide (MnO)	0.1
Free silica	< 0.1

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

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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
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	
<i>Personal protection</i>	Wear recommended personal protective equipment.
<i>Procedure for cleaning and collection</i>	Sweep up /collect mechanically. Wetting will reduce airborne dust.and recollection Collection in closed container, e.g. mini bulk bag or drum.
7.Handling and storage	
<i>Handling:</i>	Avoid breathing dust. Avoid spillage which can cause slippery. Use good personal hygiene
<i>Storage Recommendations</i>	keep material in a dry warehouse
<i>Storage Class</i>	Not applicable
8..Exposure Controls/Personal Protection	
<i>Engineering controls</i>	Use adequate ventilation if dusty conditions prevail when the handling the product. For storage and ordinary handling, general ventilation is adequate
<i>Exposure Guidelines. Dust</i>	Total dust < 10mg/m – 8 hour TWA Respiratory dust <4mg/m – 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 shot blasting 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
9.Physical and Chemical Properties	
<i>Appearance</i>	
<i>Physical State</i>	Solid, angular granules
<i>Colour</i>	Grey/Light Brown
<i>Odour</i>	None

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Safety Relevant Data	
Melting point	1200 °C
Lower Explosion Limit	Not applicable
Upper Explosion Limit	Not applicable
Specific Gravity	2.8 kg/dm
Bulk Density	1300 kg/dm
Hardness	6-7 Mohs
Solubility in water	Insoluble
10.Stability and Reactivity	Stable under normal condition
Toxicological Information	
Immediate (acute) effects	Not applicable
Delayed (subchronic and chronic) effects	Not applicable
Other data:	Dust in concentration above the max. Recommended concentration might cause irritation of eyes and throat, and inhaled over a prolonged period of time, constitute a hazard
11.Ecological Information	Not hazardous.
12.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
13.Transport Information	
Land Transport	
ADR	Not regulated
GGVS	Not regulated
RID	Not regulated
GGVE	Not regulated
14.Identification of the product	
Danger number	UN nr:
River / Canal-transport	
ADNR	Not regulated
Sea-Transport:	
IMDG/GGVSea-code	Not regulated
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
Other Information	
	The information contained in this document is to the best of our knowledge accurate, but is given without warrant to its accuracy, reliability or completeness. Since the circumstances and conditions in which it may be used are beyond our control, we do not accept liability for any loss or damage, however arising, which may result directly or indirectly from the use of such information.

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