



CERMATCO LTD

PRODUCT HEALTH AND SAFETY DATA

| | |
|----------------|------------|
| DATA SHEET NO. | FSi/HSO/1 |
| DATE ISSUED | 14/01/2009 |
| NO.OF PAGES | 4 |

1. PRODUCT & COMPANY IDENTIFICATION

| | |
|-----------------|------------------|
| PRODUCT NAME | Fused Silica |
| ADDITIONAL INFO | www.cermatco.com |
| CAS REGISTRY NO | 60676-86-0 |
| EINECS NO | 2623738 |

Contact Manufacturer
Cermatco Ltd
Granimar House
Cooting Road
Aylesham
Kent
CT3 3EP
UK

2. HAZARDS IDENTIFICATION

| | |
|-------------------------------|--|
| Emergency Overview | Non-combustible |
| Eye Contact | Normal problems caused by inert particulate matter |
| Skin Contact | May cause irritation |
| Inhalation | No known effects other than respiratory irritation |
| Ingestion | None known |
| Classification | Not dangerous |
| Aggravated medical conditions | Asthma, lung irritation, dermatitis |

3. COMPOSITION / INFORMATION OF INGREDIENTS

| CHEMICAL NAME | Fused Quartzite | |
|--|------------------------|------------------------|
| COMPOSITION | M.E.L. (mg per cbm) | O.E.S. (mg per cbm) |
| Mainly silica trace amounts of Al ₂ O ₃ , TiO ₂ , Fe ₂ O ₃ , MgO, Na ₂ O, etc. Each of these constituents is not available in a form to react as itself. | N/A (See below) | N/A (See below) |
| MINERALOGY | M.E.L. (mg per cbm) | O.E.S. (mg per cbm) |
| Major Component – Amorphous silica <1% crystalline phase | N/A (See below) | N/A (See below) |

4. FIRST AID MEASURES

| | | |
|---|--|---|
| Primary routes of body entry | Over-Exposure, Acute & Chronic Effects | First Aid & Medical Information |
| Inhalation | No known effects other than respiratory irritation | Remove from exposure |
| Ingestion | None known. | None applicable |
| Skin contact | None known, fine powders may dry the skin. In some cases sharp grains could abrade the skin. | General first aid procedures. |
| Skin absorption | Not applicable. | Not applicable. |
| Eye | Normal problems caused by inert particulate matter. | Do not rub, irrigate well, seek medical advice if matter not removed. |
| Other potential health risks, e.g. Synergistic Reactions | None known. | Not applicable. |
| Toxicity | None known to date but low to non-existent. | Not applicable. |

5. FIRE-FIGHTING MEASURES

| | | | |
|--|-----|----------------------------|--|
| Flash point | N/A | Extinguishing media | Not a fire hazard |
| Special fire fighting procedure | N/A | Explosion potential | None. Normal very fine dust explosion risk - no recorded occurrence. |

6. ACCIDENTAL RELEASE MEASURES

| | |
|----------------------------------|--|
| Personal precautions | Wear personal protective equipment Avoid dust formation |
| Environmental precautions | No special environmental precautions required |
| Methods for clean-up | Collect in suitable container for disposal |

7. HANDLING & STORAGE

| | |
|--|--|
| Normal packing method | Grain and fines packed in paper sacks or I.B.C's with or without wooden pallets. |
| Normal use | Normal ceramic or refractory applications |
| Procedures in event of spillage | Retrieval by means of vacuum is recommended to avoid creation of nuisance dust. |
| Waste disposal | Inert grains and powders may be dumped as non-hazardous waste |
| Special handling precautions | None. |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

This material has not been assigned specified Occupational Exposure (O.E.L.) under COSHH and with no indication of a need for a lower value, personal exposure should be kept below 10mg per cbm 8 hour T.W.A. for "total inhalable dust"¹ or below 5 mg per cbm 8 hour T.W.A. for "respirable dust"¹. Such or larger dust concentrations would be taken as "substantial concentrations" and such are substances hazardous to health.

T.W.A. = Time Weighted Average.

¹ See MDHS 14: General methods for the gravimetric determination of respirable and total inhalable dust. ISBN 0 7176 03431

PERSONAL PROTECTION REQUIREMENTS

| | |
|-------------------------------|---|
| Respiratory protection | Personal dust masks suitable for nuisance dust. |
| Ventilation | As dictated by process to minimise nuisance dust. |
| Protective gloves | Advisable in cases where skin drying could occur. |
| Eye protection | Advisable to prevent ingress of dust into eyes. |
| Other equipment | Advisable to wear safety footwear when handling palletised loads. |

PRECAUTIONS TO BE TAKEN DURING REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT WITH WHICH THIS MATERIAL HAS BEEN IN CONTACT:

Normal hygiene standards and use of personal safety equipment such as dust masks and eye protection.

9. PHYSICAL & CHEMICAL PROPERTIES**PHYSICAL DATA**

| | | | |
|-------------------------|----------|---------------------------|--|
| Boiling Point | N/A | Solubility-water | Nil |
| Melting Point | > 1800°C | Solubility-alcohol | Nil |
| Vapour pressure | N/A | Solubility-others | Minor in Hydrofluoric acid |
| Vapour density | N/A | Appearance | Translucent / white grains and powders |
| Specific gravity | 3.56 | Odour | None |

10. STABILITY & REACTIVITY

| | |
|---------------------------------|------------------------------------|
| Stability | Stable up to very high temperature |
| Polymerisation | Unknown |
| Incompatible with | None known |
| Decomposition Products | None |
| Conditions to be avoided | None |

11. TOXICOLOGICAL INFORMATION**Local Effects**

| | |
|------------------------|--|
| Skin irritation | May cause skin irritation |
| Eye irritation | May cause eye irritation |
| Inhalation | May cause respiratory tract irritation |
| Ingestion | None known |

Long Term Effects

| | |
|------------------------|------------|
| Skin irritation | None known |
| Eye irritation | None known |
| Inhalation | None known |
| Ingestion | None known |

12. ECOLOGICAL INFORMATION

| | |
|--|--------------------------|
| Ecotoxicity effects | Not water endangering |
| Additional ecological information | No information available |

13. DISPOSAL CONSIDERATIONS

| | |
|-------------------------------|--|
| Waste disposal method | Dispose of in accordance with local regulations |
| Contaminated packaging | Empty containers should be taken for local recycling, recovery or waste disposal |
| Further information | Can be land-filled, when in compliance with local regulations |

14. TRANSPORT INFORMATION

Not classed as hazardous for transport.

15. REGULATORY INFORMATION

Not classed as hazardous for supply.

16. OTHER INFORMATION

OTHER INFORMATION - None available.

NOTE:

The above information is believed to be correct at the date of publication. Any further information on the safety aspects of our products will be supplied as and when this becomes available.

CERMATCO LIMITED
COOTING ROAD,
AYLESHAM,
KENT CT3 3EP.
UNITED KINGDOM.

TELEPHONE: +44 1304-842222

FAX: +44 1304-842434

E-mail : info@cermatco.com

An ISO 9001:2000 Company