



CERMATCO LTD

PRODUCT HEALTH AND SAFETY DATA

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|--------------|---------------------------------------|
| PRODUCT NAME | FM - FUSED MULLITE |
| PRODUCT TYPE | Alumino-silicate ceramic raw material |

| COMPOSITION | M.E.L. (mg per cbm) | O.E.S. (mg per cbm) |
|---|------------------------|------------------------|
| Stable mixture of alumino-silicates mainly alumina (Al ₂ O ₃) and silica (SiO ₂) with minor amounts of TiO ₂ , Fe ₂ O ₃ , MgO, Na ₂ O, etc. Each of these constituents are 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 - Mullite (3Al ₂ O ₃ .2SiO ₂) Minor Component - Corundum (Al ₂ O ₃) Minor component - Glass Ceramic | N/A (See below) | N/A (See below) |

NOTE:

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

PHYSICAL DATA

| | | | |
|------------------|----------|--------------------|------------------------------------|
| Boiling Point | N/A | Solubility-water | Nil |
| Melting Point | > 1850°C | Solubility-alcohol | Nil |
| Vapour pressure | N/A | Solubility-others | Minor in Hydrofluoric acid |
| Vapour density | N/A | Appearance | White/off white grains and powders |
| Specific gravity | 3.16 | Odour | None |

FIRE AND EXPLOSION HAZARD DATA

| | | | |
|--|-----|----------------------------|--|
| 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. |

HEALTH, FIRST AID AND MEDICAL DATA

| | | |
|--|--|---|
| 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. |

REACTIVITY DATA

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

STORAGE HANDLING AND USE PROCEDURE

| | |
|---------------------------------|--|
| 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. |

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.

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.

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