

PRODUCT HEALTH AND SAFETY DATA

DATA SHEET NO.	FM/HSO/2
DATE ISSUED	05/11/2008
NO.OF PAGES	4

1. PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME	FM - FUSED MULLITE
ADDITIONAL INFO	www.cermatco.com

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
Canadian Hazard Symbol	Not Applicable

3. COMPOSITION / INFORMATION OF INGREDIENTS

CHEMICAL NAME	CAS-NO	WEIGHT	EINECS
Alumina Silicate	1302-93-8		215-113-2

CHEMICAL NAME	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)

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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

Color	White/off white grains and powders
Odor	None
Physical State	Solid
pH	7-8.5 Neutral
Flash Point	NA
Autoignition Temperature	NA
Boiling Point	N/A
Melting Point	> 1850°C
Solubility-water	Nil
Solubility-alcohol	Nil
Solubility-others	Minor in Hydrofluoric acid
Bulk Density	3.16g.cm ⁻³
Risk of Explosion	NA
Vapour pressure	N/A
Vapour density	N/A
Specific gravity	3.16

10. STABILITY & REACTIVITY

Chemical Stability	Stable up to very high temperature
Hazardous Polymerisation	Unknown
Incompatible Materials	None known
Decomposition Products	None
Conditions to be avoided	None
Hazardous Decomposition Products	

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

Chemical Name	CAS-No	Weight%	WGW Classification
Alumina Silicate	1302-93-8		

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 classified as hazardous for transport.

15. REGULATORY INFORMATION

Not classified 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

GRANIMAR HOUSE
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