



CERMATCO LTD

PRODUCT HEALTH AND SAFETY DATA

DATA SHEET NO.	CerSettM3&8/HSO/1
DATE ISSUED	24/10/2005
NO.OF PAGES	3

PRODUCT NAME	CERSETT M3 and CERSETT M8
PRODUCT TYPE	A setting ceramic of mullite matrix

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 P ₂ O ₅ , MgO, TiO ₂ , Fe ₂ O ₃ , Na ₂ O, etc.	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 - Phosphate Minor component - Periclase	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	Will set solid with water
Melting Point	One component with low melting point. When set melting point in excess of 2000°C	Solubility-alcohol	One Component is soluble in alcohol
Vapour pressure	N/A	Solubility-others	Minor in Hydrofluoric acid
Vapour density	N/A	Appearance	White/off white powders
Specific gravity	3.20	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	Powders packed in plastic-lined paper sacks or plastic buckets 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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