



CERMATCO LTD

PRODUCT HEALTH AND SAFETY DATA

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1. PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME	CermaDent – mono ammonium phosphate CAS NO: 7722-76-1 EINECS NO: 231-764-5
ADDITIONAL INFO	www.cermatco.com

Contact Manufacturer
Cermatco Ltd
Granimar House
Cooting Road
Aylesham
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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	Mono ammonium phosphate	
COMPOSITION	M.E.L. (mg per cbm)	O.E.S. (mg per cbm)
Mono ammonium phosphate	N/A (See below)	N/A (See below)

MINERALOGY	M.E.L. (mg per cbm)	O.E.S. (mg per cbm)
Monoammonium Phosphate NH ₄ H ₂ PO ₄ Synonym: ammonium dihydrogen orthophosphate	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	Has fire retardant properties Governed by other materials present No special fire-fighting equipment or measures required	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	Place in a fibre keg or paper sack and dispose as Industrial waste.

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 dental or refractory applications
Procedures in event of spillage	Retrieval by means of vacuum is recommended to avoid creation of nuisance dust.
Waste disposal	Grains and powders may be dumped as industrial 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	37g/100g water at 20°C
Melting Point	> 160°C	Solubility-alcohol	Similar to water
Vapour pressure	N/A	Solubility-others	Most polar solvents
Vapour density	N/A	Appearance	White/off white grains and powders
Specific gravity	1.00	Odour	None

10. STABILITY & REACTIVITY

Stability	Stable at low temperatures
Polymerisation	Unknown
Incompatible with	None known
Decomposition Products	Loses ammonia, finally forms phosphorus pentoxide
Conditions to be avoided	Strong alkalis will liberate ammonia

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	Aquatic toxicity rating: TLm 96 hr between 100 and 1000 ppm. Orthophosphate may act as a plant nutrient and precipitate metals.
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 classified as hazardous for transport.

15. REGULATORY INFORMATION

Label according to Directives 67/548/EEC and 88/379/EEC and CHIP 2 (1994).
Not classified as a substance 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.

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