

KERR

Material Safety Data Sheet

in accordance with Community Regulation 2006/1907/EC (R.E.A.Ch.)

Revision Date: 14th May 2009

SECTION 1

Product & Company identification

1.1 Product name

ORTHO MODEL MIX Stone (Regular, Hard & X-Hard)

1.2 Uses/Application:

Dental Gypsum.

1.3 Company (Name, address and info phone number)

KERR ITALIA s.r.l.

Via Passanti, 332

84018 Scafati (SA) - Italy

+39-081-850-8311

1.4 Emergency phone (according to communitarian directive 99/45/EC, article 17)

+39.081.8508.325 (08.00-17.00, European time, GMT+1)

E-mail address: safety@kerrhawe.com

SECTION 2

Hazard identification

2.1 Hazard classification (according to communitarian directives 67/548/EEC & 99/45/EC)

None.

2.2 Other hazard

None.

SECTION 3

Composition/Information on Ingredients

(according to communitarian directives 67/548/EEC, 99/45/EC & 2001/58/EC)

3.1 Hazardous ingredients

HAZARDOUS INGREDIENTS	%	HAZARD SYMBOLS	RISK PHRASES	CAS N.	EINECS N.
None	N/A	N/A	N/A	N/A	N/A

3.2 Other non-hazardous ingredients

Calcium Sulphate (CaSO₄), Titanium Dioxide (TiO₂).

SECTION 4**First aid measures**

- 4.1 Treatment for eye contact: Flush with water to remove particles. If irritation continues, consult a physician.
- 4.2 Treatment for skin contact: Wash with water and soap.
- 4.3 Treatment for inhalation (breathing): Remove to fresh air.
- 4.4 Treatment for ingestion (swallowing): Consult a physician.

SECTION 5**Fire-fighting Measures**

- 5.1 Suitable extinguishing media: Not applicable. The product is not combustible.
- 5.2 Forbidden extinguishing media: Not applicable.
- 5.3 Special fire fighting measures: None.
- 5.4 Unusual fire and explosion hazards: None.
- 5.5 Special protection equipment: Not applicable.

SECTION 6**Accidental Release Measures**

- 6.1 Personal Precautions: Avoid skin contact. When dusty conditions exist, wear an approved dust mask.
- 6.2 Environmental Precautions: None.
- 6.3 Reclaiming Methods: Sweep or vacuum material from spillage into a waste container for disposal. Avoid formation of dust.

SECTION 7**Handling and Storage** (according to article 5 of communitarian directive 98/24/EC)

- 7.1 Handling Precautions: Do not breathe dust. Moisture or water will harden the product.
- 7.2 Precautions in case of Fire and Explosion: None. The product is not combustible
- 7.3 Storage Conditions: Store in a cool, dry place, in sealed container. Presence of moisture or water during storage will harden the product.
- 7.4 Suggested container(s): Use containers provided by manufacturer.
- 7.5 Indication for Combined Storage: Avoid contact with acids.
- 7.6 Environmental precautions: The product is considered not dangerous for environment.
- 7.7 Other Precautions: Use according to directions.

SECTION 8	
Exposure controls/personal protection	
<i>8.1 Exposure Limits:</i>	CaSO₄: <u>TWA:</u> 10 mg/m ³ ; <u>PEL:</u> 5 mg/m ³ (breathable fraction); TiO₂: <u>TWA:</u> 3,1ppm (10mg/m ³).
<i>8.2 Exposure control measures</i>	
<i>8.2.1 Precautionary Measures:</i> (according to communitarian directives 89/686/EEC & article 4 of 98/24/EC)	
Ventilation:	<u>Local Exhaust Ventilation:</u> Provide general ventilation and local exhaust ventilation to meet hazardous threshold requirements. <u>Special Ventilation:</u> Not applicable. <u>Mechanical (General) Ventilation:</u> Not applicable. <u>Other Ventilation:</u> Not applicable.
Respiratory Protection:	When dusty conditions exist, wear an approved dust mask
Hands Protection:	Gloves are usually not necessary, but may be desirable in specific work environments.
Eyes Protection:	Goggles may be needed to avoid mechanical irritation of the eye.
Skin Protection:	Handle in accordance with good personal hygiene and safety practices.
Other Protective Equipments:	It would be better use a lab coat.
<i>Measures listed in this paragraph are to be considered as indications and NOT prescriptions (89/656/EEC)</i>	
<i>8.2.2 Environment exposure control measures</i> Not Applicable.	

SECTION 9	
Physical and Chemical Properties	
<i>9.1 General information</i>	
<u>Appearance:</u> White-off powder	<u>Odour:</u> Odourless or low odour.
<i>9.2 Information related to health, safety and environment</i>	
<u>pH:</u> ~ 7	<u>Relative density:</u> Not available
<u>Boiling point:</u> Not applicable (N/A)	<u>Specific gravity (H₂O = 1):</u> ~2,5 g/ml
<u>Flash point:</u> N/A	<u>Solubility:</u> 0,67-0,88g/100g solution
<u>Flammability:</u> Not flammable.	<u>Partition coefficient n-octanol/water:</u> N/D
<u>Lower Explosivity Limit (L.E.L.):</u> N/A	<u>Viscosity:</u> N/A
<u>Upper Explosivity Limit (U.E.L.):</u> N/A	<u>Vapour density (air = 1):</u> N/A
<u>Oxidizing properties:</u> N/A	<u>Evaporation rate (n-butane = 1):</u> N/A
<u>Vapour pressure:</u> N/A	<u>Melting point:</u> Not applicable
<i>9.3 Other information (according to communitarian directives 94/9/EC):</i>	
<u>Miscibility:</u> N/A.	<u>Conducibility:</u> N/A
<u>Solubility in Lipids:</u> N/A	<u>Gases Group:</u> N/A

SECTION 10**Stability and Reactivity**

Stability: Stable.

10.1 Conditions to avoid: Contact with acids.

10.2 Materials to avoid (incompatibility): Acids.

10.3 Hazardous decomposition products: Sulphur dioxide and calcium oxide (Above 1450°C).

Other precautions:

Hazardous Polymerization Products: Will not occur

Safety significance in case of change in physical appearance: Not applicable

Stabilizers: No stabilizers are present in this product.

SECTION 11**Toxicological Information**

CMR effects (Carcinogenicity, Mutagenicity and toxicity for reproduction):

No.

Effects and hazards of eye contact: Particles may cause irritation.

Effects and hazards of skin contact: May develop sufficient heat to cause burns if large mass is in contact with skin while hardening. May dry skin.

Effects and hazards of Inhalation (Breathing): Persons subjected to large amounts of this dust will be forced to leave area because of nuisance conditions: coughing, sneezing and nasal irritation from dust.

Effects and hazards of Ingestion (Swallowing): If ingested, may result in an obstruction.

Effects for prolonged Exposure: Not applicable.

Toxic-kinetic effects: Unknown.

Effects on metabolism: Unknown.

Toxicological data for ingredients:

Calcium Sulphate (Acute toxicity):	LD ₅₀ (oral rat)	> 5000 mg/Kg
Titanium Dioxide	LD ₅₀ (oral rat)	> 20000 mg/Kg
	LD ₅₀ (skin rabbit)	> 10000 mg/Kg
	LC ₅₀ (inhalation rat/4hrs)	> 6,8 mg/l

SECTION 12**Ecological Information**

This product has not known ecological hazardous effects.

12.1 Eco-toxicity: Not available

12.2 Mobility: Not available

12.3 Persistence and degradability: Not available.

12.4 Bioaccumulative potential: Not available.

12.5 Results of PBT (Persistent Bio-Toxicity) assessment: Not available

12.6 Other adverse effects: Not available

Aquatic toxicity data for single ingredient:

Titanium Dioxide	LC ₀ (Leuciscus Idus)	> 1000 mg/l (48 hours)
	EC ₀ (Daphnia magna, crustacea)	> 3 mg/l (30days)
	EC ₀ (Pseudomonas fluorescens)	> 10000 mg/l (24 hours)

SECTION 13**Disposal considerations**

Dispose of in accordance of local regulations.

SECTION 14**Transport information**14.1 Sea transportation (IMDG)

The product is not regulated.

14.2 Air transportation (ICAO/IATA)

The product is not regulated.

14.3 Transportation by Road/Railway (RID/ADR)

The product is not regulated.

SECTION 15 (Classification according to communitarian directives 67/548/EEC & 99/45/EC)**Regulatory information**

None.

SECTION 16**Other information**16.1 Risk phrases of all ingredients

None.

16.1.1 Safety phrases of all ingredients

None

16.2 Sources of key data used to compile the Safety Data Sheet:European Chemicals Bureau (ECB – www.ecb.jrc.it)European chemical Substances Information System (ESIS - www.ecb.jrc.it/esis)A.C.G.I.H. (www.acgih.org)N.I.O.S.H. (www.cdc.gov/niosh/)O.S.H.A. (www.osha.gov/)U.E. (www.europa.eu/index_it.htm)I.A.R.C. (www.iarc.fr/)N.T.P. (www.ntp.niehs.nih.gov)European Community Directives:

67/548/EEC:	Classification, packaging and labelling of dangerous substances.
99/45/EC:	Directive concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations.
2001/58/EC:	Second amendment of directive 91/155/EEC for the definition of a detailed arrangement of specific information relating to dangerous preparations (art. 14 of 99/45/EC) and substances (art. 27 of 67/548/EEC).
89/656/EEC:	Directive on the minimum health and safety requirements for the use by workers of personal protective equipment at the workplace (third individual directive within the meaning of Article 16 (1) of Directive 89/391/EEC).
89/686/EEC:	Approximation of the laws of the Member States relating to personal protective equipment.
94/9/EC:	Approximation of the laws of the Member States concerning equipment and protective systems intended for use in potentially explosive atmospheres
98/24/EC:	Protection of the health and safety of workers from the risks related to chemical agents at work.

Document modification history: First version in compliance of Community Regulation 2006/1907/EC (R.E.A.Ch.)

CAUTION: PRODUCT FOR PROFESSIONAL USE

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