

KERR

Material Safety Data Sheet

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

Revision Date: 28th May 2009

SECTION 1

Product & Company identification

1.1 Product name

PERMLASTIC CATALYST (Light Body)

1.2 Uses/Application:

Dental impression material.

1.3 Company (Name, address and info phone number)

KERR ITALIA s.r.l.

Via Passanti, 332

84018 Scafati (SA) - Italy

00-800-41-050-505

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)

Toxic to aquatic organisms.

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.
Zinc Oxide (ZnO)	40-50	N	50/53	1314-13-2	215-222-5

3.2 Other non-hazardous ingredients

Lead Dioxide.

SECTION 4**First aid measures**

- 4.1 Treatment for eye contact: Flush with large amounts of water.
- 4.2 Treatment for skin contact: Wash thoroughly with water and soap.
- 4.3 Treatment for inhalation (breathing): None particular. It is an unlikely event.
- 4.4 Treatment for ingestion (swallowing): Induce vomiting. Consult a physician.

SECTION 5**Fire-fighting Measures**

- 5.1 Suitable extinguishing media: Not applicable.
- 5.2 Forbidden extinguishing media: Not determined.
- 5.3 Special fire fighting measures: None.
- 5.4 Unusual fire and explosion hazards: Unknown.
- 5.5 Special protection equipment: Sealed overall.

SECTION 6**Accidental Release Measures**

- 6.1 Personal Precautions: Follow recommended precautions listed in other sections.
- 6.2 Environmental Precautions: Material should not be allowed to drain into sewers.
- 6.3 Reclaiming Methods: Absorb spill with paper towels and transfer into suitable containers.

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

- 7.1 Handling Precautions: .
- 7.2 Precautions in case of Fire and Explosion: None particular.
- 7.3 Storage Conditions: Store at ambient temperature in a dry place
- 7.4 Suggested container(s): Original sealed containers provided by manufacturer.
- 7.5 Indication for Combined Storage: Avoid powerful reducing agents.
- 7.6 Environmental precautions: Do not allow product to reach sewers and rivers.
- 7.7 Other Precautions: Keep out of the reach of children. Do not ingest. Avoid contamination of food. Use according to directions.

SECTION 8	
Exposure controls/personal protection	
8.1 Exposure Limits:	PbO ₂ : <u>TLV</u> : 0,15 mg/m ³
8.2 Exposure control measures	
8.2.1 Precautionary Measures: (according to communitarian directives 89/686/EEC & article 4 of 98/24/EC)	
Ventilation:	<u>Local Exhaust Ventilation</u> : None required. <u>Special Ventilation</u> : None. <u>Mechanical (General) Ventilation</u> : None required. <u>Other Ventilation</u> : None.
Respiratory Protection:	None required.
Hands Protection:	Impervious rubber or nitrile gloves.
Eyes Protection:	May be used safety glasses.
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>	
8.2.2 Environment exposure control measures Not Applicable.	

SECTION 9	
Physical and Chemical Properties	
9.1 General information	
<u>Appearance</u> : Brown to purple grey paste	<u>Odour</u> : Slight fruity odour
9.2 Information related to health, safety and environment	
<u>pH</u> : Not determined	<u>Relative density</u> : Not available
<u>Boiling point</u> : Not applicable (N/A)	<u>Specific gravity</u> : > 2,0 g/ml
<u>Flash point</u> : N/A	<u>Solubility</u> : Insoluble in water
<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/D
<u>Upper Explosivity Limit (U.E.L.)</u> : N/A	<u>Vapour density (air = 1)</u> : N/A
<u>Oxidizing properties</u> : None	<u>Evaporation rate (n-butane = 1)</u> : N/A
<u>Vapour pressure</u> : N/A	<u>Melting point</u> : N/A
9.3 Other information (according to communitarian directives 94/9/EC):	
<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: Excessive heat may cause aging of the product.

10.2 Materials to avoid (incompatibility): Avoid powerful reducing agents.

10.3 Hazardous decomposition products: Hazardous sulphur oxides gas may form.

Other precautions:

Hazardous Polymerization Products: Will not occur

Safety significance in case of change in physical appearance: None known

Stabilizers: No stabilizers are present in this product.

SECTION 11**Toxicological Information**CMR effects (Carcinogenicity, Mutagenicity and toxicity for reproduction):

None. However, the product contains Lead Dioxide classified by EPA / IRIS in Group B2 and IARC Group 2A: Probable human carcinogen, sufficient animal evidence.

Effects and hazards of eye contact: May cause mild irritation by mechanical friction.

Effects and hazards of skin contact: Prolonged contact may cause local irritation, redness and pain.

Effects and hazards of Inhalation (Breathing): Neglectable, because it is an unlikely event.

Effects and hazards of Ingestion (Swallowing): Although ingestion is an unlikely event, uncured material may be poisonous if swallowed, because containing lead dioxide. The symptoms of lead poisoning include abdominal pain and spasms, nausea, vomiting, headache. Acute poisoning can lead to muscle weakness, "lead line" on the gums, metallic taste, definite loss of appetite, insomnia, dizziness, high lead levels in blood and urine with shock, coma and death in extreme cases.

Effects for prolonged Exposure: Lead Dioxide contained in the product may have effects on the blood, bone marrow, central nervous system, peripheral nervous system and kidneys, resulting in anaemia, encephalopathy (e.g., convulsions), peripheral nerve disease, abdominal cramps and kidney impairment. Causes toxicity to human reproduction or development.

Toxic-kinetic effects: Unknown.

Effects on metabolism: Unknown.

Toxicological data for ingredients:

Lead Dioxide	LD ₅₀ (oral rat):	20400 mg/Kg
	LD ₅₀ (skin rabbit):	> 10000 mg/Kg
	LC ₅₀ (inhalation rat/4 hours):	> 6,7 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:

None.

SECTION 13**Disposal considerations**

Dispose of in accordance of local regulations.

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

UN number: 1872 Class: 5.1 Packing group: III EMS-No: F-A, S-Q

Stowage/segregation: Category A; Limited Quantity: 5 Kg

Proper shipping name: Lead Dioxide

14.2 Air transportation (ICAO/IATA)

UN number: 1872 Class: 5.1 Packing group: III Labels: 5.1

Maximum quantities: 25 Kg (Passenger Aircraft); 100 Kg (Cargo Aircraft only)

Limited Quantity: 10Kg Proper shipping name: Lead Dioxide

14.3 Transportation by Road/Railway (RID/ADR)

UN number: 1872 Class: 5.1 Packing group: III Labels: 5.1 + 6.1

Limited Quantity: LQ12 (1 Kg/30 Kg for combined, 1 Kg/20 Kg for bandaged trays).

External package type: carton (4G) both for simple and combined packages;

Exempted (maximum) quantity for transport unit: 1000 Kg;

Proper shipping name: Lead Dioxide.

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

Hazard labelling not required.

This product is an exempted medical device (directive 1999/45/EC, article 1, paragraph 5g).

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

50/53 Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

16.1.1 Safety phrases of all ingredients

- 8 Keep container dry.
 49 Keep only in the original container.
 60 This material and its container must be disposed of as hazardous waste.
 61 Avoid release to the environment. Refer to special instructions / safety data sheets.

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)
 International Labour Organization (www.ilo.org)

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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