

KERR

Material Safety Data Sheet

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

Revision Date: 29th September 2008

SECTION 1

Product & Company identification

1.1 Product name

GEL ETCHANT

1.2 Uses/Application:

Dental Etching paste.

1.3 Company (Name, address and info phone number)

Kerr Corporation

1717 West Collins Avenue

92867 Orange – CALIFORNIA (U.S.A.)

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)

Corrosive.

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.
ortho-Phosphoric acid (H_3PO_4)	36 - 39	C	34	7664-38-2	231-633-2

3.2 Other non-hazardous ingredients

Pigments.

SECTION 4**First aid measures**

- 4.1 Treatment for eye contact: Wash eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention.
- 4.2 Treatment for skin contact: Immediately flush skin with plenty of water. Get medical attention.
- 4.3 Treatment for inhalation (breathing): Remove to fresh air Get medical attention.
- 4.4 Treatment for ingestion (swallowing): Do not induce vomiting. Give large quantities of water and get medical attention.

SECTION 5**Fire-fighting Measures**

- 5.1 Suitable extinguishing media: None; not considered to be a fire hazard.
- 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: None particular.

SECTION 6**Accidental Release Measures**

- 6.1 Personal Precautions: Adopt the same precautions listed in section 8.
- 6.2 Environmental Precautions: Keep spilled material out of sewers.
- 6.3 Reclaiming Methods: Absorb spills with inert material and transfer to suitable container for disposal.

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

- 7.1 Handling Precautions: Avoid contact with skin, eyes, soft tissues and unnecessary exposure to the product.
- 7.2 Precautions in case of Fire and Explosion: At high temperatures toxic fumes of phosphoric acid and phosphorous oxides can be generated.
- 7.3 Storage Conditions: Store at room temperature.
- 7.4 Suggested container(s): The original containers provided by manufacturer.
- 7.5 Indication for Combined Storage: Avoid contact with strong caustics, metals, sulphides and sulphites.
- 7.6 Environmental precautions: Keep spilled material out of sewers.
- 7.7 Other Precautions: Use according to directions and good personal hygiene and safety practices.

SECTION 8	
Exposure controls/personal protection	
8.1 Exposure Limits:	(H ₃ PO ₄): <u>TWA/TLV</u> 0,25 ppm (1 mg/m ³); <u>STEL</u> : 0,75 ppm (3 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> : Good general ventilation should be sufficient. <u>Special Ventilation</u> : None required. <u>Mechanical (General) Ventilation</u> : Good general ventilation recommended. <u>Other Ventilation</u> : None required.
Respiratory Protection:	None particular.
Hands Protection:	Impervious rubber gloves recommended
Eyes Protection:	May be used safety glasses.
Skin Protection:	Handle in accordance with good personal hygiene and safety practices. These practices include avoiding unnecessary exposure to the product.
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> : Purple gel.	<u>Odour</u> : Odourless.
9.2 Information related to health, safety and environment	
<u>pH</u> : 0.5 – 1.5	<u>Relative density</u> : N/E
<u>Boiling point</u> : 100°C	<u>Specific gravity</u> : 1,2 g/ml
<u>Flash point</u> : Not applicable (N/A)	<u>Solubility</u> : Soluble in water
<u>Flammability</u> : Not flammable.	<u>Partition coefficient n-octanol/water</u> : N/E
<u>Lower Explosivity Limit (L.E.L.)</u> : N/A	<u>Viscosity</u> : N/E
<u>Upper Explosivity Limit (U.E.L.)</u> : N/A	<u>Vapor density (air = 1)</u> : N/E
<u>Oxidizing properties</u> : None	<u>Evaporation rate (n-butane = 1)</u> : N/E
<u>Vapour pressure</u> : N/E	<u>Melting point</u> : N/E
9.3 Other information (according to communitarian directive 94/9/EC):	
<u>Miscibility</u> : Not available.	<u>Conducibility</u> : Similar to water
<u>Solubility in Lipids</u> : Not available	<u>Gases Group</u> : Not applicable

SECTION 10**Stability and Reactivity**

Stability: Stable.

10.1 Conditions to avoid: Excessive heat.

10.2 Materials to avoid (incompatibility): Strong caustics, metals, sulphides and sulphites.

10.3 Hazardous decomposition products: Toxic fumes of phosphoric acid.

Other precautions:

Hazardous Polymerization Products: None

Safety significance in case of change in physical appearance: Unknown

Stabilizers: Product is not required to be stabilized.

SECTION 11**Toxicological Information**

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

None.

Effects and hazards of eye contact: Corrosive. May cause redness, pain and eye burns.

Effects and hazards of skin contact: Corrosive. May cause redness, pain and burns.

Effects and hazards of Inhalation (Breathing): Inhalation is not an expected hazard unless product is misted or heated at high temperatures.

Effects and hazards of Ingestion (Swallowing): Corrosive. May cause sore throat and burns of the mouth and throat.

Effects for prolonged Exposure: May cause burns to the respiratory tract, contact with soft tissues may cause burns.

Toxic-kinetic effects: Unknown.

Effects on metabolism: Unknown.

Toxicological data for ingredients:

ortho-Phosphoric acid (H_3PO_4)	LD ₅₀ (oral rat)	1530 mg/Kg
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SECTION 12**Ecological Information**

The product is not considered as environmentally hazardous. However, if released in massive quantities in the environment, may cause pH change with adverse effects on aquatic life.

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 ingredients:

None

SECTION 13**Disposal considerations**

Dispose of in accordance with local regulations.

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

UN number: 1805 Class: 8 Packing group: III EMS-No: F-A, S-B
Stowage/segregation: Category A; Limited Quantity: 5 Lt
Proper shipping name: Phosphoric acid in (aqueous/gel) solution.

14.2 Air transportation (ICAO/IATA)

UN number: 1805 Class: 8 Packing group: III Labels: 8
Maximum quantities: 5 Lt (Passenger Aircraft); 60 Lt (Cargo Aircraft only)
Limited Quantity: 1 Lt Proper shipping name: Phosphoric acid in (aqueous/gel) solution.

14.3 Transportation by Road/Railway (RID/ADR)

UN number: 1805 Class: 8 Packing group: III Kemler n°: 80 Labels: 8
Limited Quantity: LQ7 (5 Lt/30 Kg for combined, 5 Lt/20 Kg for bandaged trays).
External package type: carton (4G) both for simple and combined packages;
Proper shipping name: Phosphoric acid in (aqueous/gel) solution.

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

34 Causes burns.

16.1.1 Safety phrases of all ingredients

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

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

The information on this Safety Sheet is based on presently available data and to our best knowledge for the correct handling of the product under normal conditions. Any use of this product in any way not indicated on this Sheet or the use of this product together with any other process/procedure will be exclusively under the user's responsibility. This document does not constitute explicit or implicit warranty of product quality or fitness for a particular purpose.