

KERRHAWE

Material Safety Data Sheet

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

Revision Date: 19th July 2010

SECTION 1

Product & Company identification

1.1 Product name

HAWE IMPLANT PASTE

1.2 Uses/Application:

Dental paste for high gloss finishing.

1.3 Company (Name, address and info phone number)

KERRHAWE S.A.

Via Strecce n°4

6934 Bioggio (Switzerland)

Free phone: 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)

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.
Ethyl Alcohol	< 1	F	11	64-17-5	200-578-6

3.2 Other non-hazardous ingredients

Alumina.

SECTION 4**First aid measures**

- 4.1 Treatment for eye contact: Flush with plenty of water for at least 15 minutes.
- 4.2 Treatment for skin contact: Wash with water.
- 4.3 Treatment for inhalation (breathing): Inhalation of this product in paste form is unlikely to occur.
- 4.4 Treatment for ingestion (swallowing): For ingestion of large amount of product, give water to dilute.

SECTION 5**Fire-fighting Measures**

- 5.1 Suitable extinguishing media: Water stream.
- 5.2 Forbidden extinguishing media: Unknown.
- 5.3 Special fire fighting measures: Not applicable.
- 5.4 Unusual fire and explosion hazards: Does not occur.
- 5.5 Special protection equipment: Not applicable.

SECTION 6**Accidental Release Measures**

- 6.1 Personal Precautions: None.
- 6.2 Environmental Precautions: None.
- 6.3 Reclaiming Methods: Pick up mechanically and wash with water surface on which the material is spilled.

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

- 7.1 Handling Precautions: None required.
- 7.2 Precautions in case of Fire and Explosion: The product is not flammable.
- 7.3 Storage Conditions: Keep at ambient temperature in the original containers closed.
- 7.4 Suggested container(s): The original containers provided by manufacturer.
- 7.5 Indication for Combined Storage: None.
- 7.6 Environmental precautions: None.
- 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:	TLV-TWA: 1000 ppm (Ethanol); 2.4 ppm (Alumina)
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. <u>Other Ventilation:</u> None.
Respiratory Protection:	None.
Hands Protection:	None.
Eyes Protection:	Not necessary.
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 consider as indications and NOT as 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> Pink paste	<u>Odour:</u> Mint odour
9.2 Information related to health, safety and environment	
<u>pH:</u> 7,5 – 9,5 (10% solution)	<u>Relative density:</u> 1,45 g/ml
<u>Boiling point:</u> Not applicable	<u>Specific gravity:</u> Not determined (N/D)
<u>Flash point:</u> Not applicable	<u>Solubility:</u> Partial in water
<u>Flammability:</u> Not flammable.	<u>Partition coefficient n-octanol/water:</u> N/A
<u>Lower Explosivity Limit (L.E.L.):</u> N/A	<u>Viscosity:</u> Not determined
<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> Not available
<u>Vapour pressure:</u> Not determined (N/D)	<u>Melting point:</u> N/A
9.3 Other information (according to communitarian directive 94/9/EC):	
<u>Miscibility:</u> Not applicable.	<u>Conducibility:</u> N/D
<u>Solubility in Lipids:</u> Not available	<u>Gases Group:</u> N/A

SECTION 10**Stability and Reactivity**

Stability: Stable.

10.1 Conditions to avoid: Unknown.

10.2 Materials to avoid (incompatibility): Unknown.

10.3 Hazardous decomposition products: Unknown.

Other precautions:

Hazardous Polymerization Products: Does not occur.

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

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: May cause a mild irritation for mechanical friction.

Effects and hazards of skin contact: Mild irritant for prolonged contact.

Effects and hazards of Inhalation (Breathing): Inhalation of the material is an unlike event.

Effects and hazards of Ingestion (Swallowing): Large amounts of material may cause a mild irritation to the throat.

Effects for prolonged Exposure: Prolonged or repeated exposure to the vapours of the material may cause irritation to the throat and respiratory tract.

Toxic-kinetic effects: Unknown.

Effects on metabolism: Unknown.

Toxicological data for ingredients:

Ethyl Alcohol	LC ₅₀ (inhalation mouse/4hrs)	39g/m ³
	LC ₅₀ (inhalation rat/10hrs)	20000ppm
	LD _{L0} (intraperitoneal dog)	3000mg/Kg
	LD ₅₀ (intraperitoneal guinea pig)	3414mg/Kg
	LD ₅₀ (intraperitoneal hamster)	5068mg/Kg
	LD ₅₀ (intraperitoneal mammal)	4300mg/Kg
	LD ₅₀ (intraperitoneal mouse)	933mg/Kg
	LD ₅₀ (intraperitoneal rat)	3750mg/Kg
	LD ₅₀ (intraperitoneal rabbit)	963mg/Kg
	LD _{L0} (intravenous cat)	3945mg/Kg
	LD _{L0} (intravenous chicken)	8216mg/Kg
	LD _{L0} (intravenous dog)	1600mg/Kg
	LD ₅₀ (intravenous mouse)	1973mg/Kg
	LD ₅₀ (intravenous rat)	1440mg/Kg
	LD ₅₀ (intravenous rabbit)	2374mg/Kg
	LD _{L0} (oral cat)	6000mg/Kg
	LD _{L0} (oral child)	2000mg/Kg
	LD _{L0} (oral dog)	5500mg/Kg
	LD ₅₀ (oral guinea pig)	5560mg/Kg
	LD _{L0} (oral human)	1400mg/Kg
	TD _{L0} (oral man)	700mg/Kg
	TD _{L0} (oral man)	50mg/Kg
	TD _{L0} (oral man)	1430mg/Kg
	LD ₅₀ (oral mouse)	7500mg/Kg
	LD ₅₀ (oral rat)	7060 mg/Kg
	LD ₅₀ (oral rabbit)	6300mg/Kg
	TD _{L0} (oral woman)	6300mg/Kg
	LD _{L0} (subcutaneous chicken)	5g/Kg
	LD _{L0} (subcutaneous dog)	6000mg/Kg
	LD _{L0} (subcutaneous frog)	7100mg/Kg
LD _{L0} (subcutaneous infant)	19440mg/Kg	
LD _{L0} (subcutaneous mouse)	4g/Kg	
LD _{L0} (subcutaneous pigeon)	5g/Kg	
LD _{L0} (skin rabbit)	20g/Kg	

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 ingredients:

Ethanol	LC ₅₀ (Oncorhynchus mykiss):	10400-13000 mg/l (96hrs)
	LC ₅₀ (Pimephales promelas):	15300 mg/l (96hrs)
	LC ₅₀ (Other fishes):	10000 mg/l (24hrs)
	LC ₅₀ (Daphnia magna):	9,3 mg/l (48hrs)

SECTION 13**Disposal considerations**

There is no specific information on the product. Use according to good working practices, avoiding release of the product into environment. 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**

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

11 Highly flammable.

16.1.1 Safety phrases of all ingredients

47 Keep at temperature not exceeding 40°C to avoid the possible loss of product performances.

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.C.H.)

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.