

KERR

Material Safety Data Sheet

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

Revision Date: 14th April 2009

SECTION 1

Product & Company identification

1.1 Product name

SUPER SEP

1.2 Uses/Application:

Dental stone separating agent.

1.3 Company (Name, address and info phone number)

KERR ITALIA S.r.l.

Via Passanti, 332

84018 Scafati (SA) - Italy

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)

Highly flammable; Harmful; Irritating.

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.
Naphtha (petroleum), hydrotreated heavy (*)	25-35	Xn	65	64742-48-9	265-150-3
Isopropyl alcohol (Isopropanol)	35-45	F; Xi	11-36-67	67-63-0	200-661-7
Isobutylic alcohol (Isobutanol)	4,5-6,5	Xi	10-37/38-41-67	78-83-1	201-148-0
1,2 dichloropropane	3,5-4,5	F; Xn	11-20/22	78-87-5	201-152-2
1-phenilazo, 2-naphthol	< 0,01	Xn	40-68-43-53	842-07-9	212-668-2

(*) This substance is not considered toxic according to Directive 2008/58/EC, Annexes 1A and 1C.

3.2 Other non-hazardous ingredients

Octadecanoic acid (TLV).

SECTION 4**First aid measures**

4.1 Treatment for eye contact: Flush with plenty of water also under eyelids for at least 15 minutes.

4.2 Treatment for skin contact: Wash with soap and water. If irritation occurs, consult a physician.

4.3 Treatment for inhalation (breathing): Move to fresh air, and if necessary, make a mouth to mouth insufflation.

4.4 Treatment for ingestion (swallowing): Do not induce vomiting. Give a few sips of water or milk. Consult immediately a physician.

SECTION 5**Fire-fighting Measures**

5.1 Suitable extinguishing media: Carbon dioxide, alcohol foam, dry chemicals.

5.2 Forbidden extinguishing media: Direct water flow.

5.3 Special fire fighting measures: None.

5.4 Unusual fire and explosion hazards: None.

5.5 Special protection equipment: Sealed overall for liquid and gases; self contained breathing apparatus.

SECTION 6**Accidental Release Measures**

6.1 Personal Precautions: Impervious gloves, safety glasses, lab coat or apron, in case of a dangerous high concentration use a respirator with filter.

6.2 Environmental Precautions: Avoid product spillage in sewage or drainage and in case inform the concerned authorities. Limit leakage and keep away from ignition source.

6.3 Reclaiming Methods: Avoid any ignition source, absorb with paper or allow to evaporate in a hooded area. Flush the area with water. Evaporation residues are non-hazardous and may be disposed of with ordinary waste.

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

7.1 Handling Precautions: Keep away from ignition source. May attack forms of plastics, rubber and castings. Do not store or handle in aluminum equipment at temperature above 49°C (120°F).

7.2 Precautions in case of Fire and Explosion: None.

7.3 Storage Conditions: Keep product in a normal container. The product can charge electrostatically; use grounded equipment.

7.4 Suggested container(s): Original sealed containers provided by manufacturer.

7.5 Indication for Combined Storage: Strong oxidizing agents. Do not store or handle in aluminum equipment at temperature above 49°C (120°F).

7.6 Environmental precautions: Do not allow product to reach sewers and rivers.

7.7 Other Precautions: Use according to directions.

SECTION 8**Exposure controls/personal protection**

<i>8.1 Exposure Limits:</i>	(Isopropanol): <u>TWA</u> : 200 ppm (491,5 mg/m ³); <u>STEL</u> : 400 ppm (983 mg/m ³); (Isobutanol): <u>TWA</u> : 50 ppm (152 mg/m ³); (1,2-dichloropropane): <u>TWA</u> : 10 ppm (46 mg/m ³).
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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> : Appropriate. <u>Special Ventilation</u> : None. <u>Mechanical (General) Ventilation</u> : None. <u>Other Ventilation</u> : None.
Respiratory Protection:	Avoid vapor inhalation. In case of dangerous high concentration use a respirator with approved filter.
Hands Protection:	Impervious gloves, nitrilic type.
Eyes Protection:	Safety glasses.
Skin Protection:	Handle in accordance with good personal hygiene and safety practices.
Other Protective Equipments:	Eyewash. It would be better use a lab coat.

Measures listed in this paragraph are to be considered as indications and NOT prescriptions (89/656/EEC)

8.2.2 Environment exposure control measures

Not Applicable.

SECTION 9 Physical and Chemical Properties	
<i>9.1 General information</i>	
<u>Appearance</u> : Colourless liquid.	<u>Odour</u> : Petroleum odour.
<i>9.2 Information related to health, safety and environment</i>	
<u>pH</u> : Not determined (N/D)	<u>Relative density</u> : Not applicable (N/A)
<u>Boiling point</u> : 83°C	<u>Specific gravity</u> : 0,83 g/ml @ 20°C
<u>Flash point</u> : 7,2°C (TCC)	<u>Solubility</u> : Insoluble (in water)
<u>Flammability</u> : Yes.	<u>Partition coefficient n-octanol/water</u> : N/A
<u>Lower Explosivity Limit (L.E.L.)</u> : 2,0	<u>Viscosity (dynamic)</u> : < 2500 cP @ 23°C (Brookfield)
<u>Upper Explosivity Limit (U.E.L.)</u> : 12,7	<u>Viscosity (cinematic)</u> : > 700 mm²/s @ 23°C
<u>Oxidizing properties</u> : None	<u>Vapour density (air = 1)</u> : N/D
<u>Vapour pressure</u> : N/A	<u>Evaporation rate (n-butane = 1)</u> : N/D
	<u>Melting point</u> : N/A
<i>9.3 Other information (according to communitarian directive 94/9/EC):</i>	
<u>Miscibility</u> : N/D	<u>Conducibility</u> : N/A
<u>Solubility in Lipids</u> : N/D	<u>Gases Group</u> : N/A

SECTION 10 Stability and Reactivity
<u>Stability</u> : Stable if stored as directed.
<u>10.1 Conditions to avoid</u> : Heat and ignition sources.
<u>10.2 Materials to avoid (incompatibility)</u> : Strong oxidizing agents. Do not store or handle in aluminum equipment at temperature above 49°C (120°F).
<u>10.3 Hazardous decomposition products</u> : Carbon oxide and non identified organic components may appear when the product burns.
<u>Other precautions</u> :
<u>Hazardous Polymerization Products</u> : Not determined.
<u>Safety significance in case of change in physical appearance</u> : None.
<u>Stabilizers</u> : The product does not contain stabilizers.

SECTION 11**Toxicological Information**

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

No (See asterisk note in section 3.1 related to Naphta, EC number 265-150-3).

Effects and hazards of eye contact: Irritating to the eyes.

Effects and hazards of skin contact: Mildly irritating to the skin.

Effects and hazards of Inhalation (Breathing): May cause mild irritation of the respiratory tract.

Effects and hazards of Ingestion (Swallowing): May cause nausea.

Effects for prolonged Exposure: Unknown.

Toxic-kinetic effects: Unknown.

Effects on metabolism: Unknown.

Toxicological data for ingredients:

Isopropyl alcohol	LD ₅₀ (oral rat)	4570 mg/Kg
	LD ₅₀ (skin rabbit)	13400 mg/Kg
	LC ₅₀ (inhalation rat/4hrs)	30 mg/l
Isobutyl alcohol	LC ₅₀ (oral rat)	2460 mg/m3
1,2-dichloropropane	LD ₅₀ (oral rat)	1900 mg/Kg
	LD ₅₀ (skin rabbit)	8750 mg/Kg
	LC ₅₀ (inhalation rat/8hrs)	3000 ppm
	LD _{L0} (oral man)	50 mg/Kg
	LC _{L0} (inhalation man/6 hours)	10000 ppm

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:

Isopropyl Alcohol	LC ₅₀ (fishes, 48 hours)	8970 mg/l
Isobutyl Alcohol	LC ₅₀ (Pimephales putida, 96 hours)	1430 mg/l
Easily biodegradable:	EC ₁₀ (Pseudomonas putida, 18 hours)	750 mg/l
97% (OCSE 303 A);	EC ₅₀ (Daphnia magna, 24 hours)	583 mg/l (DIN 38412)
99% (OCSE 301 E)	EC ₅₀ (Scenedesmus subspicatus, 48 hours)	1250 mg/l

SECTION 13**Disposal considerations**

Dispose of in accordance of local regulations.

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

UN number: 1993

Class: 3

Packing group: II

EMS-No: F-E, S-E

Stowage/segregation: Category (B);

Limited Quantity: 1 Lt

Proper shipping name: Flammable liquid, n.o.s.

14.2 Air transportation (ICAO/IATA)

UN number: 1993

Class: 3

Packing group: II

Label: 3 (Flammable liquid)

Maximum quantities: 5 Lt (Passenger Aircraft); 60 Lt (Cargo Aircraft only)

Limited Quantity: 1 Lt

Proper shipping name: Flammable liquid, n.o.s.

14.3 Transportation by Road/Railway (RID/ADR)

UN number: 1993

Class: 3

Packing group: II;

Hazard identific. n°: 33

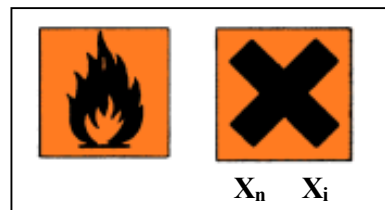
Label: 3

Proper shipping name: Flammable liquid, n.o.s.

Limited Quantity LQ4: (3lt/30 Kg for combined, 1lt/20Kg for bandaged trays/pallets).

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

- 11 Highly flammable.
- 65 Harmful: may cause lung damage if swallowed.
- 36 Irritating to eyes.
- 67 Vapours may cause drowsiness and dizziness.

Safety phrases

- 2 Keep out of the reach of children.
- 16 Keep away from sources of ignition.
- 23 Do not breathe vapour.
- 24/25 Avoid contact with skin and eyes.
- 62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

SECTION 16**Other information**16.1 (Other) Risk phrases

- 10 Flammable.
- 41 Risk of serious damage to eyes.
- 43 May cause sensitisation by skin contact.
- 37/38 Irritating to respiratory system and skin.
- 20/22 Harmful by inhalation and if swallowed.
- 40 Limited evidence of a carcinogenic effect.
- 68 Possible risk of irreversible effects.
- 53 May cause long-term adverse effects in the aquatic environment.

16.1.1 (Other) Safety phrases

- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 46 If swallowed, seek medical advice immediately and show this container or label.

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.
2008/58/EC:	Commission Directive 2008/58/EC of 21 August 2008 amending, for the purpose of its adaptation to technical progress, for the 30th time, Council Directive 67/548/EEC on the approximation of the laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances.

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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