

KerrHawe

Material Safety Data Sheet

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

Revision Date: 13th May 2009

SECTION 1

Product & Company identification

1.1 Product name

SLICK LUBE

1.2 Uses/Application:

Coating agent for dental dies.

1.3 Company (Name, address and info phone number)

KERRLAB

1717 West Collins Avenue

Orange, CA 92867 (U.S.A.)

+1-714-516-7400

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.

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	60-90	F	11	64-17-5	200-578-6

3.2 Other non-hazardous ingredients

None.

SECTION 4**First aid measures**

- 4.1 Treatment for eye contact: Rinse opened eye for several minutes under running water.
- 4.2 Treatment for skin contact: Wash with soap and water. Generally the product does not irritate the skin.
- 4.3 Treatment for inhalation (breathing): Supply fresh air; consult a physician in case of discomforts.
- 4.4 Treatment for ingestion (swallowing): Do not give liquids if victim is unconscious. Contact a physician.

SECTION 5**Fire-fighting Measures**

- 5.1 Suitable extinguishing media: Water spray, Carbon dioxide or dry chemical powders. Fight larger fires with water spray or alcohol resistant foam.
- 5.2 Forbidden extinguishing media: Not applicable.
- 5.3 Special fire fighting measures: Not applicable.
- 5.4 Unusual fire and explosion hazards: None.
- 5.5 Special protection equipment: No special measures are required.

SECTION 6**Accidental Release Measures**

- 6.1 Personal Precautions: Follow recommended precautions listed in other sections.
- 6.2 Environmental Precautions: Dilute with plenty of water. Do not allow to enter sewers/surface or ground water.
- 6.3 Reclaiming Methods: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust) and transfer into a suitable container for disposal.

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

- 7.1 Handling Precautions: Use the product in a well-ventilated area, away from ignition sources.
- 7.2 Precautions in case of Fire and Explosion: None.
- 7.3 Storage Conditions: Keep container closed, in a cool and dry place and away from heat, sparks and open flame. Protect against electrostatic charges.
- 7.4 Suggested container(s): Original sealed containers provided by manufacturer.
- 7.5 Indication for Combined Storage: Avoid contact with oxidizing agents.
- 7.6 Environmental precautions: None particular. Avoid spillage/release of the product into the environment.
- 7.7 Other Precautions: Use according to directions.

SECTION 8**Exposure controls/personal protection***8.1 Exposure Limits:*TWA/TLV: 1000 ppm (**Ethyl alcohol**)*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> : Recommended to keep exposure under TLV. <u>Special Ventilation</u> : None. <u>Mechanical (General) Ventilation</u> : None. <u>Other Ventilation</u> : None.
Respiratory Protection:	Not needed.
Hands Protection:	Neoprene or nitrile impervious gloves.
Eyes Protection:	Safety glasses approved.
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***9.1 General information*Appearance: Colourless liquidOdour: Ethanol odour.*9.2 Information related to health, safety and environment*

<u>pH</u> : Not established (N/E)	<u>Relative density</u> : Not available
<u>Boiling point</u> : 78°C	<u>Specific gravity</u> : 0,878 g/ml @ 20°C
<u>Flash point</u> : < 20°C	<u>Solubility</u> : Soluble (in water)
<u>Flammability</u> : Yes.	<u>Partition coefficient n-octanol/water</u> : N/A
<u>Lower Explosivity Limit (L.E.L.)</u> : 0,9	<u>Viscosity</u> : N/E
<u>Upper Explosivity Limit (U.E.L.)</u> : 15	<u>Vapour density (air = 1)</u> : Not established
<u>Oxidizing properties</u> : None	<u>Evaporation rate (n-butane = 1)</u> : N/E
<u>Vapour pressure</u> : 59hPa @ 20°C	<u>Melting point</u> : N/E

*9.3 Other information (according to communitarian directive 94/9/EC):*Miscibility: Miscible with water.Conducibility: N/ASolubility in Lipids: Not availableGases Group: N/A

SECTION 10
Stability and Reactivity

Stability: Stable.

10.1 Conditions to avoid: Heat and ignition sources.

10.2 Materials to avoid (incompatibility): Oxidizing materials can cause a reaction.

10.3 Hazardous decomposition products: Combustion will produce carbon dioxide and sometime carbon monoxide.

Other precautions:

Hazardous Polymerization Products: Will not occur

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

Stabilizers: This 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.

Effects and hazards of skin contact: May cause a mild irritation.

Effects and hazards of Inhalation (Breathing): May cause irritation of the throat.

Effects and hazards of Ingestion (Swallowing): May be poisonous for ingestion of large quantities.

Effects for prolonged Exposure: Unknown.

Toxic-kinetic effects: Unknown.

Effects on metabolism: Unknown.

**SECTION 11
(Continued)**Toxicological data for ingredients:

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

Ethyl Alcohol	EC ₅₀ /48 hours (daphnia magna):	> 10 mg/l
	IC ₅₀ /72 hours (algae):	5000 mg/l
	LC ₅₀ (fishes):	> 10000 mg/l

SECTION 13**Disposal considerations**

Dispose of in accordance with local regulations.

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

UN number: 1170 Class: 3 Packing group: II EMS-No: F-E, S-D

Stowage/segregation: Category (A); Limited Quantity: 1 Lt

Proper shipping name: Ethanol (Ethyl alcohol) or Ethanol (Ethyl alcohol) solution

14.2 Air transportation (ICAO/IATA)

UN number: 1170 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: Ethanol (Ethyl alcohol) or Ethanol (Ethyl alcohol) solution

14.3 Transportation by Road/Railway (RID/ADR)

UN number: 1170 Class: 3 Packing group: II; Hazard identific. n°: 33

Label: 3

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

Proper shipping name: Ethanol (Ethyl alcohol) or Ethanol (Ethyl alcohol) solution.

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

11 Highly flammable.

Safety phrases

2 Keep out of the reach of children.

7 Keep container tightly closed

16 Keep away from sources of ignition. – No smoking

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

11 Highly flammable

16.1.1 Safety phrases of all ingredients

2 Keep out of the reach of children.

7 Keep container tightly closed

16 Keep away from sources of ignition. – No smoking

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.

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(R.E.A.Ch.)

CAUTION: PRODUCT FOR PROFESSIONAL USE

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