

**KERAFOL Keramische Folien GmbH**

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**1 Identification of the substance / preparation and of the company**

**Product:** KL - 90  
**Registration number:** not applicable  
**Use:** See product information  
**Identified use:** none  
**Method of operation:** See product information.  
**Company:** KERAFOL Keramische Folien GmbH  
Stegenthumbach 4-6  
92676 Eschenbach / GERMANY  
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**Responsible:** Simonavicius@chemiebuero.de

**2 Hazards identification**

**Physico-chemical hazards:** No particular hazards known.  
**Human health dangers:** No particular hazards known.  
**Environmental hazards:** The product/the substance is not hazardous to water.  
**Other hazards:** none  
**Hazard symbols:** not applicable  
**R-phrases:** none

**3 Composition / Information on ingredients**

> 50%	Aluminium oxide
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CAS: 1344-28-1, EINECS/ELINCS: 215-691-6, EU-INDEX: , ECBNr:

**Comment on component parts:** For the wording of the listed risk phrases refer to section 16.

**4 First aid measures**

**General information:** not applicable  
**Inhalation:** Ensure supply of fresh air.  
In the event of symptoms seek for medical treatment.  
**Skin contact:** When in contact with the skin, clean with soap and water.  
Consult a doctor if skin irritation persists.  
**Eye contact:** In case of contact with eyes rinse thoroughly with water.  
In the event of symptoms seek for medical treatment.  
**Ingestion:** not applicable  
**Advice to doctor:** Treat symptomatically.

**5 Fire-fighting measures**

**Suitable extinguishing media:** Dry powder.  
Water spray jet.  
Carbon dioxide.  
Foam.  
**Extinguishing media that must not be used:** Full water jet.  
**Special exposure hazards arising from the substance or preparation itself or combustion products:** Unknown risk of formation of toxic pyrolysis products.  
**Special protective equipment for firefighters:** Use self-contained breathing apparatus.  
**Additional information:** Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

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**6 Accidental release measures**

- Personal precautions:** No special measures necessary.
- Environmental precautions:** Do not discharge into the drains/surface waters/groundwater.
- Methods for cleaning up:** Take up mechanically.  
Dispose of absorbed material in accordance with the regulations.

**7 Handling and storage**

- Advice on safe handling:** No special measures necessary if used correctly.
- Advice on protection against fire and explosion:**  
No special measures necessary.
- Requirements for storage rooms and vessels:**  
Keep only in original container.
- Advice on storage compatibility:** none
- Further information on storage conditions:**  
Store in a dry place.

**8 Exposure controls / personal protection**

- Additional advice on system design:**  
Ensure adequate ventilation on workstation.

**Ingredients with occupational exposure limits to be monitored:**

> 50%	Aluminium oxide, 10mg/m <sup>3</sup> *, General remarks: (inhalable dust)
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**\* WEL: Workplace exposure limit**

- Respiratory protection:** not applicable
- Hand protection:** Butyl rubber, >120 min (EN 374).
- Eye protection:** Safety glasses.
- Skin protection:** not applicable
- General protective measures:** Avoid contact with eyes and skin.
- Hygiene measures:** Wash hands before breaks and after work.  
Use barrier skin cream.

- Delimitation and monitoring of the environmental exposition:**  
not determined

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**9 Physical and chemical properties**

<b>Form:</b>	film
<b>Color:</b>	black
<b>Odor:</b>	characteristic
<b>pH-value:</b>	not applicable
<b>pH-value [1%]:</b>	not applicable
<b>Boiling point [°C]:</b>	not applicable
<b>Flash point [°C]:</b>	not applicable
<b>Flammability [°C]:</b>	not applicable
<b>Lower explosion limit:</b>	not applicable
<b>Upper explosion limit:</b>	not applicable
<b>Oxidizing properties:</b>	no
<b>Vapour pressure [kPa]:</b>	not applicable
<b>Density [g/ml]:</b>	not determined
<b>Density at [°C]:</b>	
<b>Bulk density [kg/m³]:</b>	not applicable
<b>Solubility in water:</b>	virtually insoluble
<b>Partition coefficient [n-octanol/water]:</b>	not applicable
<b>Viscosity:</b>	not applicable
<b>Relative vapour density determined in air:</b>	not applicable
<b>Evaporation speed:</b>	not applicable
<b>Melting point [°C]:</b>	not determined
<b>Autoignition temperature [°C]:</b>	not applicable
<b>Decomposition temperature:</b>	not determined

**10 Stability and reactivity**

<b>Hazardous reactions:</b>	No hazardous reactions known.
<b>Hazardous decomposition products:</b>	No hazardous decomposition products known.

**11 Toxicological information**

<b>Acute oral toxicity:</b>	not determined
<b>Acute dermal toxicity:</b>	not determined
<b>Acute inhalational toxicity:</b>	not determined
<b>Irritant effect on eye:</b>	not determined
<b>Irritant effect on skin:</b>	not determined
<b>Sensitization:</b>	not determined
<b>Subacute toxicity:</b>	not determined
<b>Chronic toxicity:</b>	not determined
<b>Mutagenicity:</b>	not determined
<b>Reproduction toxicity:</b>	not determined
<b>Carcinogenicity:</b>	not determined
<b>Experiences made in practice:</b>	none
<b>General remarks:</b>	Toxicological data are not available. No classification on the basis of the calculation procedure of the preparation directive.

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**12 Ecological information**

**Fish toxicity:** not determinated  
**Daphnia toxicity:** not determinated  
**Behaviour in environment compartments:**  
not determinated  
**Behaviour in sewage plant:** not determinated  
**Bacteria toxicity:** not determinated  
**Biological degradability:** not determinated  
**COD:** not determinated  
**BOD 5:** not determinated  
**AOX-advice:** No dangerous components.  
**2006/11/EC:** not applicable  
**General information:** No classification on the basis of the calculation procedure of the preparation directive.

**13 Disposal considerations**

**Product:** For recycling, consult manufacturer.  
Disposal in an incineration plant in accordance with the regulations of the local authorities.  
**Contaminated packaging:** Uncontaminated packaging may be taken for recycling.  
**Waste no. (recommended):** 060316  
070299

**14 Transport information**

**Classification according to ADR:** NO DANGEROUS GOODS  
- **Classification Code:**  
- **Label:**  
  
- **ADR LQ**  
- **ADR 1.1.3.6 (8.6):** Transport category (tunnel restriction code): -  
  
**Classification according to IMDG:** NOT CLASSIFIED AS "DANGEROUS GOODS"  
- **EMS:**  
- **Label:**  
  
- **IMDG Limited Quantities:**  
  
**Classification according to IATA:** NOT CLASSIFIED AS "DANGEROUS GOODS"  
- **Label:**

**15 Regulatory information**

**Exposure scenario:** not applicable  
**Chemical safety report:** not applicable  
**Labelling:** The product does not require a hazard warning label in accordance with EC-directives.  
**Hazard symbols:**  
not applicable  
**R-phrases:** none  
**S-phrases:** none  
**Special labelling:** Safety data sheet available for professional user on request.  
**Authorisation, TITEL VII:** not applicable  
**Restrictions, TITEL VIII:** not applicable  
**EEC-REGULATIONS:** 1967/548 (2008/58, 30. ATP/ 31. ATP); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006.  
**TRANSPORT-REGULATIONS:** DOT-Classification, ADR (2009); IMDG-Code (34. Amdt.); IATA-DGR (2009).  
**NATIONAL REGULATIONS** EH40/2005 Workplace exposure limits with amendments October 2007.

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**16 Other informations**

**Modified position:** Chapter: 15; Plus The product does not require a hazard warning label in accordance with EC-directives.  
Chapter: 15; Minus S 37: Wear suitable gloves.  
Chapter: 08; Minus Do not eat, drink, smoke or take drugs at work.  
Chapter: 15; Minus R 43: May cause sensitisation by skin contact.  
Chapter: 15; Minus S 24: Avoid contact with skin.  
Chapter: 15; Minus Irritant  
Chapter: 15; Plus Safety data sheet available for professional user on request.  
Chapter: 02; Plus The product/the substance is not hazardous to water.

**Observe employment restrictions for people:**  
no

**VOC (1999/13/CE):** 0%

**Customs Tariff:** not determinated

Disclaimer: This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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