

KERAFOL Keramische Folien GmbH & Co. KG
92676 Eschenbach

Date printed 30.09.2024, Revision 30.09.2024

Version 4.0. Supersedes version: 3.0

Page 1 / 10

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Keratherm® GFL 3020 (2K - Gap Filler Liquid), Comp. A
Keratherm® GFL 3020 G (2K - Gap Filler Liquid), Comp. A

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant uses

Potting

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

KERAFOL Keramische Folien GmbH & Co. KG
Koppe-Platz 1
92676 Eschenbach / GERMANY
Phone +49 (0) 9645 88-300
Fax +49 (0) 9645 88-390
Homepage www.kerafol.com
E-mail info@kerafol.com

Address enquiries to

Technical information

info@kerafol.com

Safety Data Sheet

sdb@chemiebuero.de (No dispatch of safety data sheets)
Safety data sheets are available from the supplier.

1.4 Emergency telephone number

Advisory body

+49 (0)89-19240 (24h) (English)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (GB) CLP]

No classification.

2.2 Label elements

The product does not require a hazard warning label in accordance with regulation CLP.

Hazard pictograms

none

Signal word

none

Hazard statements

none

Precautionary statements

none

2.3 Other hazards

Human health dangers

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Environmental hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Other hazards

Chemical compounds containing silicon - hydrogen bonds (Si-H).

This product may generate hydrogen gas.

Danger of oxyhydrogen gas formation with water, alcohols, acids, metallic salts, amines and alkalis.

KERAFOL Keramische Folien GmbH & Co. KG
92676 Eschenbach

Date printed 30.09.2024, Revision 30.09.2024

Version 4.0. Supersedes version: 3.0

Page 2 / 10

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

The product is a mixture.

Comment on component parts

No dangerous components.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Take off contaminated clothing and wash before reuse.

Inhalation

Ensure supply of fresh air.

Skin contact

When in contact with the skin, clean with soap and water.
Consult a doctor if skin irritation persists.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Ingestion

Do not induce vomiting.
Rinse out mouth and give plenty of water to drink.
Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
Forward this sheet to your doctor.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam.
Water mist.
Carbon dioxide.

Extinguishing media that must not be used

Full water jet.
Dry powder.

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.
Carbon monoxide (CO)
Not combusted hydrocarbons.
Carbon dioxide (CO₂)
Silicon compounds
With the use of water-based extinguishing agents care is required because hydrogen can be released, which accumulates after extinguishing the fire in poorly ventilated or confined areas and may re-fire or cause an explosion.

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Cool containers at risk with water spray jet.
Collect contaminated firefighting water separately, must not be discharged into the drains.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

KERAFOL Keramische Folien GmbH & Co. KG
92676 Eschenbach

Date printed 30.09.2024, Revision 30.09.2024

Version 4.0. Supersedes version: 3.0

Page 3 / 10

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.
Keep away from all sources of ignition.
Wear suitable protective equipment. For personal protection see SECTION 8.
Some risk of slipping due to spillage of product.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Take up mechanically.
Take up residues with absorbent material (e.g. sand, sawdust, general purpose binder, diatomaceous earth).
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.
Open and handle container with care.
Avoid contact with eyes and skin. Use personal protective equipment.
Keep away from open flames, hot surfaces and sources of ignition.
Do not smoke.
Take precautionary measures against static discharges.
Ignitable mixtures can be formed in the empty container.
Do not eat, drink or smoke when using this product.
Wash hands before breaks and after work.
Use barrier skin cream.
Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Do not store together with oxidizing agents.
Do not store together with acids and alkalies.
Do not store with amines
Keep container in a well-ventilated place.
Protect from heat/overheating.
Keep in a cool place. Store in a dry place.
Protect from contamination.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (UK)

not relevant

Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)

not relevant

KERAFOL Keramische Folien GmbH & Co. KG
92676 Eschenbach

Date printed 30.09.2024, Revision 30.09.2024

Version 4.0. Supersedes version: 3.0

Page 4 / 10

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
Eye protection	Safety glasses. (EN 166:2001)
Hand protection	> 0,3 mm, Butyl rubber, >480 min (EN 374-1/-2/-3). > 0,1 mm, Nitrile rubber, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	Protective clothing (EN 340)
Other	Avoid contact with eyes and skin.
Respiratory protection	Not required under normal conditions. In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Particle filter half mask, type FFP1 (DIN EN 149)
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	Comply with applicable environmental regulations limiting discharge to air, water and soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Form	pasty
Color	whitish
Odor	characteristic
Odour threshold	No information available.
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point or initial boiling point and boiling range [°C]	not applicable
Flash point [°C]	No information available.
Flammability	not applicable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	not applicable
Density [g/cm³]	ca. 2,3 (DIN EN 2811-2)
Relative density	not determined
Bulk density [kg/m³]	not applicable
Solubility in water	insoluble
Solubility other solvents	No information available.
Partition coefficient n-octanol/water (log value)	not applicable
Kinematic viscosity	No information available.
Relative vapour density	not relevant
Melting point [°C]	not relevant
Auto-ignition temperature [°C]	No information available.
Decomposition temperature [°C]	No information available.
Particle characteristics	No information available.

KERAFOL Keramische Folien GmbH & Co. KG
92676 Eschenbach

Date printed 30.09.2024, Revision 30.09.2024

Version 4.0. Supersedes version: 3.0

Page 5 / 10

9.2 Other information

Dynamic viscosity: 28000 mPas (DIN EN 2884-2).

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

In contact with incompatible substances this material may quickly generate a large volume of flammable hydrogen gas.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents.

Reactions with alkalis (lyes).

Reactions with amines.

Reactions with alcohols.

Reactions with acids.

Reactions with water.

The reactions take place with the formation of hydrogen.

10.4 Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

Contact with moisture.

Contact with contaminated piping or vessels or with corroded and rusty containers can increase the rate of hydrogen formation.

See SECTION 7

10.5 Incompatible materials

See SECTION 10.3.

10.6 Hazardous decomposition products

Hydrogen.

Measurements have shown that oxidative decomposition at temperatures greater than about 150 °C releases a small quantity of formaldehyde.

KERAFOL Keramische Folien GmbH & Co. KG
92676 Eschenbach

Date printed 30.09.2024, Revision 30.09.2024

Version 4.0. Supersedes version: 3.0

Page 6 / 10

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity

Product

Based on the available information, the classification criteria are not fulfilled.

Acute dermal toxicity

Product

Based on the available information, the classification criteria are not fulfilled.

Acute inhalational toxicity

Product

Based on the available information, the classification criteria are not fulfilled.

Serious eye damage/irritation

Based on the available information, the classification criteria are not fulfilled.

Skin corrosion/irritation

Based on the available information, the classification criteria are not fulfilled.

Respiratory or skin sensitisation

Based on the available information, the classification criteria are not fulfilled.

**Specific target organ toxicity —
single exposure**

Based on the available information, the classification criteria are not fulfilled.

**Specific target organ toxicity —
repeated exposure**

Based on the available information, the classification criteria are not fulfilled.

Mutagenicity

Based on the available information, the classification criteria are not fulfilled.

Reproduction toxicity

Based on the available information, the classification criteria are not fulfilled.

Carcinogenicity

Based on the available information, the classification criteria are not fulfilled.

Aspiration hazard

Based on the available information, the classification criteria are not fulfilled.

General remarks

Toxicological data of complete product are not available.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

11.2.2 Other information

none

SECTION 12: Ecological information

12.1 Toxicity

12.2 Persistence and degradability

**Behaviour in environment
compartments**

No information available.

Behaviour in sewage plant

No information available.

Biological degradability

The organic component of the product is non biodegradable.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

KERAFOL Keramische Folien GmbH & Co. KG
92676 Eschenbach

Date printed 30.09.2024, Revision 30.09.2024

Version 4.0. Supersedes version: 3.0

Page 7 / 10

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Ecological data of complete product are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Disposal in an incineration plant in accordance with the regulations of the local authorities.
In according to RoHS!

Waste no. (recommended) 070217

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Waste no. (recommended) 150102

SECTION 14: Transport information

14.1 UN number or ID number

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

KERAFOL Keramische Folien GmbH & Co. KG
92676 Eschenbach

Date printed 30.09.2024, Revision 30.09.2024

Version 4.0. Supersedes version: 3.0

Page 8 / 10

14.3 Transport hazard class(es)

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Maritime transport in bulk according to IMO instruments

not applicable

KERAFOL Keramische Folien GmbH & Co. KG
92676 Eschenbach

Date printed 30.09.2024, Revision 30.09.2024

Version 4.0. Supersedes version: 3.0

Page 9 / 10

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EEC-REGULATIONS

2008/98/EG (2000/532/EC); 2010/75/EU; 2004/42/EG; (EG) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EWG ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014; (EU) 2019/1148; (EU) 2019/1021, (EU) 2023/707

- Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.

- Annex XIV (REACH)

According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain any substances $\geq 0.1\%$ that are subject to authorisation.

- Annex XVII (REACH)

According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product does not contain any substances $\geq 0.1\%$ that are restricted.

According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is not subject to any restrictions.

TRANSPORT-REGULATIONS

ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2024)

NATIONAL REGULATIONS (UK):

EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.

- Observe employment restrictions for people

none

- VOC (2010/75/CE)

0 %

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

KERAFOL Keramische Folien GmbH & Co. KG
92676 Eschenbach

Date printed 30.09.2024, Revision 30.09.2024

Version 4.0. Supersedes version: 3.0

Page 10 / 10

SECTION 16: Other information

16.1 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ATE = acute toxicity estimate
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
EL50 = Median effective loading
ELINCS = European List of Notified Chemical Substances
EmS = Emergency Schedules
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform Chemical Information Database
IVIS = In vitro irritation score
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
LC0 = lethal concentration, 0%
LOAEL = lowest-observed-adverse-effect level
LL50 = Median lethal loading
LQ = Limited Quantities
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
NOAEL = No Observed Adverse Effect Level
NOEC = No Observed Effect Concentration
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
STP = Sewage Treatment Plant
TLV®/TWA = Threshold limit value – time-weighted average
TLV®STEL = Threshold limit value – short-time exposure limit
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

16.2 Other information

Classification procedure

Modified position 15.1

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