

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 29.11.2019

Version number 2

Revision: 29.11.2019

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

- 1.1 Product identifier
- Trade name: **KEMPERTEC AC GF Gradient Filler**
- 1.2 Relevant identified uses of the substance or mixture and uses advised against  
 Identified use: intended for professional use only!
- Application of the substance / the mixture: Mortar
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier: KEMPER SYSTEM GmbH & Co. KG  
 Holländische Strasse 32-36  
 34246 Vellmar  
 Deutschland / Germany  
 Telefon: +49 (0)561 / 8295-0  
 Telefax: +49 (0)561 / 8295-5110  
 E-Mail: MSDS@KEMPER-SYSTEM.COM
- Further information obtainable from: research & development
- 1.4 Emergency telephone number: Giftinformationszentrum der Länder Rheinland-Pfalz und Hessen  
 Langenbeckstraße 1; Gebäude 601; 55131 Mainz  
 Tel. Nr.: +49 (0)6131 / 19 24 0  
 Universitätsmedizin der Johannes Gutenberg-Universität Mainz

## SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008  
 Skin Sens. 1 H317 May cause an allergic skin reaction.
- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008  
 The product is classified and labelled according to the CLP regulation.
- Hazard pictograms  
  
 GHS07
- Signal word: Warning
- Hazard-determining components of labelling:  
 methyl methacrylate  
 2-ethylhexyl acrylate  
 (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate  
 H317 May cause an allergic skin reaction.
- Hazard statements
- Precautionary statements  
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P280 Wear protective gloves.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- 2.3 Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

## SECTION 3: Composition/information on ingredients

- 3.2 Chemical characterisation: Mixtures
- Description: Mixture: consisting of the following components.

### - Dangerous components:

CAS: 80-62-6	methyl methacrylate	2.5-10%
EINECS: 201-297-1	Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	
Index number: 607-035-00-6		
Reg.nr.: 01-2119452498-28		

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CAS: 103-11-7 EINECS: 203-080-7 Index number: 607-107-00-7 Reg.nr.: 01-2119453158-37	2-ethylhexyl acrylate Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335; Aquatic Chronic 3, H412	2.5-10%
CAS: 42978-66-5 EINECS: 256-032-2 Index number: 607-249-00-X Reg.nr.: 01-2119484613-34	(1-methyl-1,2-ethanediy)bis[oxy(methyl-2,1-ethanediy)] diacrylate Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	<0.5%

**- Non-dangerous ingredients**

CAS: 14808-60-7 EINECS: 238-878-4 Reg.nr.: 01-2120770509-45	Quartz (SiO <sub>2</sub> )	50-100%
CAS: 65997-17-3 EINECS: 266-046-0 Reg.nr.: 01-2119990048-30	Fibrous Glass	12.5-25%
	Acrylat Copolymer	0.5-2.5%
CAS: 9003-22-9 EC number: 618-359-2	Acetic acid ethenyl ester, Polymer mit Chloroethene	0.5-2.5%

**- Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

- 4.1 Description of first aid measures**
- General information:** Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.  
Immediately remove any clothing soiled by the product.  
Do not leave affected persons unattended.  
Personal protection for the First Aider.  
Take affected persons out of danger area and lay down.
- After inhalation:** In case of unconsciousness place patient stably in side position for transportation.  
Supply fresh air; consult doctor in case of complaints.
- After skin contact:** Immediately wash with water and soap and rinse thoroughly.  
Seek medical treatment in case of complaints.
- After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.  
Protect unharmed eye.
- After swallowing:** If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

### SECTION 5: Firefighting measures

- 5.1 Extinguishing media**
- Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture** Formation of toxic gases is possible during heating or in case of fire.
- 5.3 Advice for firefighters**
- Protective equipment:** Do not inhale explosion gases or combustion gases.
- Additional information** Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation  
Avoid contact with skin and eyes
- 6.2 Environmental precautions:** Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.  
Prevent from spreading (e.g. by damming-in or oil barriers).
- 6.3 Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Do not flush with water or aqueous cleansing agents

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**- 6.4 Reference to other sections**

See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

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## SECTION 7: Handling and storage

**- 7.1 Precautions for safe handling**

Store in cool, dry place in tightly closed receptacles.  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.

**- 7.2 Conditions for safe storage, including any incompatibilities**

**- Storage:**

**- Requirements to be met by storerooms and receptacles:**

Store only in the original receptacle.

**- Information about storage in one common storage facility:**

Store away from foodstuffs.

**- Further information about storage conditions:**

Protect from frost.  
Store in dry conditions.  
Recommended storage temperature: 5-30 °C  
Keep container tightly sealed.

**- Storage class:**

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**- 7.3 Specific end use(s)**

No further relevant information available.

## SECTION 8: Exposure controls/personal protection

**- Additional information about design of technical facilities:**

No further data; see item 7.

**- 8.1 Control parameters**

**- Ingredients with limit values that require monitoring at the workplace:**

**80-62-6 methyl methacrylate**

WEL	Short-term value: 416 mg/m <sup>3</sup> , 100 ppm
	Long-term value: 208 mg/m <sup>3</sup> , 50 ppm

**- Regulatory information**

WEL: EH40/2018

**- Additional information:**

The lists valid during the making were used as basis.

**- 8.2 Exposure controls**

**- Personal protective equipment:**

**- General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.

**- Respiratory protection:**

When used properly and under normal conditions, breathing protection is not required.  
Use suitable respiratory protective device in case of insufficient ventilation.  
Filter A/P2

**- Protection of hands:**

Respiratory protection - Gas filters and combination filters according to (DIN EN 141)



Protective gloves

Check protective gloves prior to each use for their proper condition.  
Only use chemical-protective gloves with CE-labelling of category III.  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation  
After use of gloves apply skin-cleaning agents and skin cosmetics.

**- Material of gloves**

Recommended materials:  
Butyl rubber, BR  
Recommended thickness of the material: ≥ 0.5 mm  
Penetration time (min.): < 480

**- Penetration time of glove material**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.  
The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

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- As protection from splashes gloves made of the following materials are suitable:

Nitrile rubber, NBR  
Recommended thickness of the material:  $\geq 0.1$  mm  
Penetration time (min.):  $< 10$

- Eye protection:



Tightly sealed goggles

- Body protection:

protective clothing (EN 13034)

## SECTION 9: Physical and chemical properties

### - 9.1 Information on basic physical and chemical properties

#### - General Information

#### - Appearance:

Form:	Viscous
Colour:	Colourless
- Odour:	Characteristic
- Odour threshold:	Not determined.

- pH-value: Not determined.

#### - Change in condition

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Undetermined.

- Flash point: Not applicable.

- Flammability (solid, gas): Not applicable.

- Decomposition temperature: Not determined.

- Auto-ignition temperature: Product is not selfigniting.

- Explosive properties: Product does not present an explosion hazard.

#### - Explosion limits:

Lower:	Not determined.
Upper:	Not determined.

- Density at 20 °C: 2.12 g/cm<sup>3</sup>

- Relative density: Not determined.

- Vapour density: Not determined.

- Evaporation rate: Not determined.

#### - Solubility in / Miscibility with

water: Not miscible or difficult to mix.

- Partition coefficient: n-octanol/water: Not determined.

#### - Viscosity:

Dynamic at 20 °C:	19000 mPas
Kinematic:	Not determined.

#### - Solvent content:

VOC (EC) 0.20 %

- 9.2 Other information: No further relevant information available.

## SECTION 10: Stability and reactivity

- 10.1 Reactivity: No further relevant information available.

- 10.2 Chemical stability

- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions

No dangerous reactions known.

- 10.4 Conditions to avoid

No further relevant information available.

- 10.5 Incompatible materials:

No further relevant information available.

- 10.6 Hazardous decomposition products:

No dangerous decomposition products known.

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### SECTION 11: Toxicological information

#### - 11.1 Information on toxicological effects

- **Acute toxicity** Based on available data, the classification criteria are not met.

#### - LD/LC50 values relevant for classification:

##### 80-62-6 methyl methacrylate

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50/4 h	29.8 mg/l (rat)

##### 103-11-7 2-ethylhexyl acrylate

Oral	LD50	4,435 mg/kg (rat) (IUCLID)
Dermal	LD50	7,522 mg/kg (rabbit) (IUCLID)

##### 42978-66-5 (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate

Oral	LD50	2,000 mg/kg (rat) (OECD 423)
Dermal	LD50	2,000 mg/kg (rabbit) (OECD 402)

#### - Primary irritant effect:

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.

- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.

- **Respiratory or skin sensitisation** May cause an allergic skin reaction.

#### - CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

- **Carcinogenicity** Based on available data, the classification criteria are not met.

- **Reproductive toxicity** Based on available data, the classification criteria are not met.

- **STOT-single exposure** Based on available data, the classification criteria are not met.

- **STOT-repeated exposure** Based on available data, the classification criteria are not met.

- **Aspiration hazard** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

#### - 12.1 Toxicity

#### - Aquatic toxicity:

##### 80-62-6 methyl methacrylate

	NOEC	37 mg/l (Daphnia magna) (21 days; OECD 202 Part 2, flow)
	EC3	37 mg/l (Scenedesmus quadricauda) (DIN 38412 Part 9; 8d)
	EC0	100 mg/l (Pseudomonas putida)
	EC50	69 mg/l (Daphnia magna) (48 h; OECD 202)
	LC 50	>79 mg/l (Oncorhynchus mykiss (Regenbogenforelle)) (96 h; OECD 203)

##### 103-11-7 2-ethylhexyl acrylate

Inhalative	LC50/8h	1.19 mg/l (rat) (OECD 403)
	LC50/96 h	1.8 mg/l (Oncorhynchus mykiss (Regenbogenforelle))
	EC50	17 mg/l (Daphnia magna) (48h; IUCLID)
	EC50	>10,000 mg/l (Pseudomonas putida) (30 min.; IUCLID)
	IC50	44 mg/l (DESMODESMUS SUBSPICATUS) (72h, IUCLID)
	LC50	23 mg/l (Leuciscus idus (Goldorfe)) (48h; IUCLID)

##### 42978-66-5 (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate

	LC50	4.6-10 mg/l (Leuciscus idus) (96h; DIN38412- Teil 15)
	EC50	>1,000 mg/l (Belebtschlamm) (3h, OECD 209)
	EC50	89 mg/l (Daphnia magna) (48h; US EPA)
	EC50	65.9 mg/l (DESMODESMUS SUBSPICATUS) (72h; DIN 38412 Teil 9)
	EC10	6.6 mg/l (DESMODESMUS SUBSPICATUS) (72h)

- **12.2 Persistence and degradability** No further relevant information available.

- **12.3 Bioaccumulative potential** No further relevant information available.

- **12.4 Mobility in soil** No further relevant information available.

#### - Additional ecological information:

- **General notes:** Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

#### - 12.5 Results of PBT and vPvB assessment

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

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**- Contact:**

research & development

**- Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 4: Acute toxicity - oral – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

**- \* Data compared to the previous version altered.**