

according to 1907/2006/EC, Article 31

Printing date 23.07.2020 Version number 4 Revision: 23.07.2020

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

- 1.1 Product identifier

- Trade name: KEMPERTEC AC Jointing compound

- 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
 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

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction. STOT SE 3 H335 May cause respiratory irritation.

- 2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008

- Hazard pictograms

The product is classified and labelled according to the CLP regulation.



Danger



2 GHS

- Signal word

- Hazard-determining components of

labelling:

methyl methacrylate

2-ethylhexyl acrylate Triethylene glycol dimethacrylate

Fatty acids, C18, unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-

propanediamine

Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-

methylphenyl)amino]-

- **Hazard statements** H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H335 May cause respiratory irritation.

- **Precautionary statements** P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water [or shower].

P405 Store locked up.

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.

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3.2 Chemical characterisati			
- Description: Mixture: consisting of the following components.			
Dangerous components:		140 5 05	
CAS: 80-62-6 EINECS: 201-297-1 Index number: 607-035-00-6 Reg.nr.: 01-2119452498-28	methyl methacrylate Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	12.5-25	
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	12.5-25	
CAS: 109-16-0 EINECS: 203-652-6 Reg.nr.: 01-2119969287-21	Triethylene glycol dimethacrylate Skin Sens. 1, H317	0.5-2.5	
CAS: 8002-74-2 EINECS: 232-315-6 Reg.nr.: 01-2119488076-30	Paraffin waxes and Hydrocarbon waxes substance with a Community workplace exposure limit	0.5-2.5	
CAS: 162627-17-0 EC number: 605-296-0 Reg.nr.: 01-2119970640-38	Fatty acids, C18, unsatd., dimers,reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine Skin Sens. 1, H317	0.5-2.5	
CAS: 107-98-2 EINECS: 203-539-1 Index number: 603-064-00-3 Reg.nr.: 2119457435-35	1-methoxy-2-propanol Flam. Liq. 3, H226; Acute Tox. 3, H331; STOT SE 3, H336	<0.5%	
EC number: 911-490-9 Reg.nr.: 01-2119979579-10	Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]- Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 3, H412	<0.5% 	

SECTION 4: First aid measures

- 4.1 Description of first aid measures

- General information: Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours, therefore medical observation for at least 48

hours after the accident.

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.

Immediately wash with water and soap and rinse thoroughly.

Seek medical treatment in case of complaints.

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

- After skin contact:

- After eye contact:

- Suitable extinguishing agents: CO2, 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

- 5.3 Advice for firefighters

Formation of toxic gases is possible during heating or in case of fire.

- 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.





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SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective

equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation Keep away from ignition sources.

- 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Prevent from spreading (e.g. by damming-in or oil barriers).

Do not allow to enter sewers/ surface or ground water.

- 6.3 Methods and material for containment

- 6.4 Reference to other sections

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 See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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.

- Information about fire - and explosion

protection:

Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

- 7.2 Conditions for safe storage, including any incompatibilities

- Requirements to be met by storerooms and

receptacles: - Information about storage in one common Store only in the original receptacle.

storage facility:

Store away from foodstuffs.

- Further information about storage

conditions:

Protect from frost. Store in dry conditions. Keep container tightly sealed.

Recommended storage temperature: 5-30 °C

- Storage class:

- 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/m³, 100 ppm Long-term value: 208 mg/m³, 50 ppm

8002-74-2 Paraffin waxes and Hydrocarbon waxes

WEL Short-term value: 6 mg/m³ Long-term value: 2 mg/m³

107-98-2 1-methoxy-2-propanol

WEL Short-term value: 560 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm

- Regulatory information WEL: EH40/2020

- 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. Wash hands before breaks and at the end of work. Immediately remove all soiled and contaminated clothing

Avoid contact with the eyes and skin.

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(Contd. of page 3) When used properly and under normal conditions, breathing protection is not required.

Use suitable respiratory protective device in case of insufficient ventilation.

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

- Protection of hands:

- Respiratory protection:



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

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

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 - Penetration time of glove material conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is

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

Nitrile rubber, NBR

recommended

Recommended thickness of the material: ≥ 0.1 mm

Penetration time (min.): < 10

- Eye protection:



Tightly sealed goggles

Protective goggles and facial protection - Classification according to EN 166

- 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: Grey - 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:

10 °C - Flammability (solid, gas): Not applicable.

- Decomposition temperature: Not determined.

- Auto-ignition temperature: Product is not selfigniting.

- Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

- Explosion limits:

Lower: Not determined. Upper: Not determined.

- Density at 20 °C: 1.01 g/cm3 - Relative density Not determined - Vapour density Not determined. - Evaporation rate Not determined.

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- Solubility in / Miscibility with water:	Not miscible or difficult to mix.	
- Partition coefficient: n-octanol/water:	Not determined.	
 Viscosity: Dynamic at 20 °C: Kinematic: 	14000 mPas Not determined.	
- Solvent content: VOC (EC) - 9.2 Other information	6.10 % 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. Exothermic polymerisation.

- 10.3 Possibility of hazardous reactions

Reacts with peroxides. No further relevant information available.

- 10.4 Conditions to avoid - 10.5 Incompatible materials: No further relevant information available. - 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

		n toxicological effects			
	- Acute toxicity Based on available data, the classification criteria are not met.				
- LD/LC50	values rele	evant for classification:			
80-62-6 m	ethyl met	hacrylate			
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-ethylhex	yl acrylate			
Oral	LD50	4,435 mg/kg (rat) (IUCLID)			
Dermal	LD50	7,522 mg/kg (rabbit) (IUCLID)			
109-16-0	Triethylen	e glycol dimethacrylate			
Oral	LD50	10,066 mg/kg (rat)			
Inhalative	LC50/4 h	>2,000 mg/l (mouse)			
8002-74-2	Paraffin v	waxes and Hydrocarbon waxes			
Oral	LD50	>5,000 mg/kg (rat)			
Dermal	LD50	>2,000 mg/kg (rat)			
162627-17	7-0 Fatty a	cids, C18, unsatd., dimers,reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine			
Oral	LD50	>10,000 mg/kg (rat) (OECD 401)			
107-98-2	1-methoxy	r-2-propanol			
Oral	LD50	4,016 mg/kg (rat) (EG Guildline 92/69/EWG B.1)			
Dermal	LD50	>2,000 mg/kg (rabbit) (Guildline 67/548/EWG, part V; B.3)			
Inhalative	LC50/4 h	6 mg/l (rat)			
Reaction	mass of 2	,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-			
Oral	LD50	619 mg/kg (rat) (OECD 401)			
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)			
- Primary i	rritant effe	ct·			

- Primary irritant effect:

- Skin corrosion/irritation Causes skin irritation

- 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 (carcinogenity, 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 May cause respiratory irritation.

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

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- Aspiration hazard

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

SECT	TION 12: Eco	ological information	
- 12.1 To			
	c toxicity:		
	6 methyl metha	acrylate	
		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-ethylhexy	acrylate	
Inhalat	ive 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)	
8002-7		axes and Hydrocarbon waxes	
		>100 mg/l (fish)	
	LE50	>10,000 mg/l (daphnia)	
	NOEL	>100 mg/l (ALGAE) (acute)	
		>10 mg/l (daphnia) (long-term)	
162627		ids, C18, unsatd., dimers,reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine	
	ErC50	>100 mg/l (Pseudokirchneriella subcapitata) (72h; OECD 201; stat. test)	
	IC50	>430 mg/l (Pseudomonas putida) (16h; DIN 38412; L8)	
	EC50	>100 mg/l (Daphnia magna) (48h; OECD 202; stat. test)	
0.47.40	LC50	>150 mg/l (Leuciscus idus (Goldorfe)) (48h; DIN 38412 stat. test)	
64/42-		(petroleum), hydrodesulfurized heavy	
		4.1 mg/l (Pseudokirchneriella subcapitata) (72h, OECD 202)	
	LC50	10-30 mg/l (Oncorhynchus mykiss (Regenbogenforelle)) (96h; OECD 203)	
Daneti	EC50	10-22 mg/l (Daphnia magna) (48h; OECD 202)	
Reacti		2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]- >100 mg/l (Cyprinus Carpio) (OECD 203 (96 hr))	
	EC50/90 11	>100 mg/l (Scenedesmus subspicatus) (OECD 201; static)	
	EC50	48 mg/l (Daphnia magna) (OECD 202; part 1 static)	
	EC50	>100 mg/l (Cyprinus Carpio) (96h; OECD 203; ISO 7346; 92/69/CEE; C.1 static)	
	NOEC	>100 mg/l (Scenedesmus subspicatus) (OECD 201, static)	
- 12 2 D		I degradability No further relevant information available.	
	ioaccumulativ		
	obility in soil	No further relevant information available.	
	onal ecologica		
- Genera	al notes:	Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage	
		system. Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water	
- 12.5 R	esults of PBT	and vPvB assessment	
- PBT:		Not applicable.	
- vPvB:		Not applicable.	
- 12.6 O	ther adverse e	ffects No further relevant information available.	

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods

- Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system. Disposal according to official regulations

- European waste catalogue 08 04 09* | waste adhesives and sealants containing organic solvents or other hazardous substances (Contd. on page 7)





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SECTION 14: Transport information

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08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

- Uncleaned packaging:

- Recommendation: Disposal must be made according to official regulations.

14.1 UN-Number	
ADR, IMDG, IATA	UN1993
14.2 UN proper shipping name	
ADR	1993 FLAMMABLE LIQUID, N.O.S. (METHYL METHACRYLATE MONOMER
IMPO IATA	STABILIZED)
IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (METHYL METHACRYLATE MONOMER, STABILIZED)
44.2 Transport borond along (so)	STADILIZED)
14.3 Transport hazard class(es) ADR	
ADR	
<u> </u>	
3	
•	0 (71) 71
Class Label	3 (F1) Flammable liquids. 3
IMDG, IATA	3
, INIA	
3	
Class	2 Elammahla liquida
Label	3 Flammable liquids. 3
14.4 Packing group	
ADR, IMDG, IATA	II
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler code):	33
EMS Number:	F-E, <u>S-E</u>
Stowage Category	В
14.7 Transport in bulk according to Annex II of Marpol a	and the IBC
Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
Transport category	2
Tunnel restriction code	D/E
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (METHYL METHACRYLATE
	MONOMER, STABILIZED), 3, II





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SECTION 15: Regulatory information

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

- Directive 2012/18/EU

- Named dangerous substances - ANNEX I None of the ingredients is listed. P5c FLAMMABLE LIQUIDS

- Seveso category

- Qualifying quantity (tonnes) for the application of lower-tier requirements

5,000 t

 Qualifying quantity (tonnes) for the application of upper-tier requirements

50,000 t

REGULATION (EC) No 1907/2006 ANNEX

Conditions of restriction: 3

- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II

None of the ingredients is listed.

- National regulations:

- Information about limitation of use:

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning women of child-bearing age must be observed. Employment restrictions concerning pregnant and lactating women must be observed.

A Chemical Safety Assessment has not been carried out. - 15.2 Chemical safety assessment:

SECTION 16: Other information

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.

- Relevant phrases H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour. H302 Harmful if swallowed.

H315 Causes skin irritation. H317 May cause an allergic skin reaction.

H318 Causes serious eye damage. H331 Toxic if inhaled.

H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

- Department issuing SDS: research & development - Contact: research & development

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International - Abbreviations and acronyms:

Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

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

PB1: Persistent, Bloaccumulative and Toxic
VPVB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids — Category 2
Flam. Liq. 3: Flammable liquids — Category 3
Acute Tox. 4: Acute toxicity - oral — Category 4
Acute Tox. 3: Acute toxicity - inhalation — Category 3
Skin Irrit. 2: Skin corrosion/irritation — Category 2
Eye Dam. 1: Serious eye damage/eye irritation — Category 1
Skin Sens. 1: Skin sensitisation — Category 1
STOT SE 2: Specific toraget grape toxicity (single exposure)

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

- Sources - www.echa.europa.eu

- www.baua.de

IFA: Institute für Occupational Safety and Health of the German Social Accident Insurance:

- www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index.jsp

- www.dguv.de/ifa/gestis/gestis-dnel-liste

 * Data compared to the previous version altered.