

- Trade name:

Safety data sheet

according to 1907/2006/EC, Article 31

Version number 6

Identified use: intended for professional use only!

KEMPER SYSTEM GmbH & Co. KG Holländische Strasse 32-36

Research and Development

Revision: 29.08.2017

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

Coating

34246 Vellmar Deutschland / Germany Telefon: +49 (0)561 / 8295-0 Telefax: +49 (0)561 / 8295-5110 E-Mail: MSDS@KEMPER-SYSTEM.COM

- 1.1 Product identifier

KEMPERDUR AC

- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- Application of the substance / the mixture
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
- Further information obtainable from:
- 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				
STOT SE 3 H335 May cause respiratory irrit	ation.			
 - 2.2 Label elements - Labelling according to Regulation (EC) No 				
1272/2008	The product is c	lassified and labelled according to the CLP regulation.		
- Hazard pictograms		^		
	J.J.			
	<u><u>v</u></u>			
	GHS02 GH	1 S07		
- Signal word	Danger			
- Hazard-determining components of	5			
labelling:	methyl methacry	late		
	2-ethylhexyl acr			
	Triethylene glyc	ol dimethacrylate		
- Hazard statements		nmable liquid and vapour.		
	H315 Causes sk			
		e an allergic skin reaction.		
- Precautionary statements	P210	e respiratory irritation. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.		
- Frecautionally Statements	F210	No smoking.		
	P241	Use explosion-proof [electrical/ventilating/lighting] equipment.		
	P261	Avoid breathing dust/fume/gas/mist/vapours/spray.		
	P303+P361+P3	53 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		
- 2.3 Other hazards		regulations.		
- Results of PBT and vPvB assessment				
- PBT:	Not applicable.			
- vPvB:	Not applicable.			
SECTION 3: Composition/informati	on on ingredi	ents		

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

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	(Conte	d of pogo 1)
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	1. of page 1) 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%
- 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: 	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.
- After inhalation:	Take affected persons out of danger area and lay down. 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: 	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 	No further relevant information available.
- Protective equipment: - Additional information	Do not inhale explosion gases or combustion gases. 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	
	Keep away from ignition sources.	
	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	
- 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.		
An incoactions for sale nationing	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 ar	5 S		
- Storage:	y moonpationaes		
- 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	Store away nom loodstuffs.		
conditions:	Protect from frost.		
	Store in dry conditions.		
	Keep container tightly sealed. Recommended storage temperature: 10-30 ℃		
- Storage class:	3		
- 7.3 Specific end use(s)	No further relevant information available.		
	and protection		
SECTION 8: Exposure controls/pers	sonar protection		
- Additional information about design of			
technical facilities:	No further data; see item 7.		
- 8.1 Control parameters			
- Ingredients with limit values that require mo	nitoring at the workplace:		
80-62-6 methyl methacrylate			
WEL Short-term value: 416 mg/m ³ , 100 ppm Long-term value: 208 mg/m ³ , 50 ppm			
8002-74-2 Paraffin waxes and Hydrocarbon v	vaxes		
WEL Short-term value: 6 mg/m ³			
Long-term value: 2 mg/m ³			
- 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.		
- Respiratory protection:	Avoid contact with the eyes and skin. When used properly and under normal conditions, breathing protection is not required.		
הפסטומנטיץ טוטנטנוטוו.	Use suitable respiratory protective device in case of insufficient ventilation.		
	Filter A/P2		
Distantion of bondar	Respiratory protection - Gas filters and combination filters according to EN 141		
- Protection of hands:			
	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		
- Material of gloves	After use of gloves apply skin-cleaning agents and skin cosmetics. Recommended materials:		
material of gioves	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		
- Penetration time of alove material	quality and varies from manufacturer to manufacturer.		
- Penetration time of glove material	The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is		
	recommended.		
- As protection from splashes gloves made of			
the following materials are suitable:	Nitrile rubber, NBR		
	Recommended thickness of the material: $\geq 0.1 \text{ mm}$		

Penetration time (min.): <10

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- Eye protection:	
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Tightly sealed goggles

- Body protection:

Protective goggles and facial protection - Classification according to EN 166 Protective work clothing Impervious protective clothing

SECTION 9: P	hysical and	chemica	l properti	es

 - 9.1 Information on basic physical and chemical properties - General Information 		
- Appearance: Form: Colour:	Fluid Grey	
 Odour: Odour threshold: 	Characteristic Not determined.	
- pH-value:	Not determined.	
 Change in condition Melting point/freezing point: Initial boiling point and boiling range: 	Undetermined. Undetermined.	
- Flash point:	10℃	
 Flammability (solid, gas): 	Not applicable.	
- Ignition temperature:		
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: Upper:	Not determined. Not determined.	
- Density at 20 ℃: - Relative density - Vapour density - Evaporation rate	1.02g/cm ³ Not determined. Not determined. 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: Kinematic:	650mPas Not determined.	
 Solvent content: VOC (EC) 9.2 Other information 	8.50 % No further relevant information available.	

SECTION 10: Stability and reactivit	У
 10.1 Reactivity 10.2 Chemical stability Thermal decomposition / conditions to be 	No further relevant information available.
avoided:	No decomposition if used according to specifications.
 10.3 Possibility of hazardous reactions 	Reacts with peroxides and other radical forming substances. Exothermic polymerisation.
- 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.

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects

- Acute toxicity

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



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- LD/LC50 values relevant for classification:		
ethyl metl	hacrylate	
LD50	>5,000 mg/kg (rat)	
LD50	>5,000 mg/kg (rabbit)	
LC50/4 h	29.8 mg/l (rat)	
2-ethylhex	yl acrylate	
LD50	4,435 mg/kg (rat) (IUCLID	
LD50	7,522 mg/kg (rabbit) (IUCI	LID)
Friethylen	e glycol dimethacrylate	
LD50	10,066 mg/kg (rat)	
LC50/4 h	>2,000 mg/l (mouse)	
Paraffin v	waxes and Hydrocarbon v	Naxes
LD50	>5,000 mg/kg (rat)	
LD50	>2,000 mg/kg (rat)	
		Causes skin 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.		
v ,		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.		
- Aspiration hazard Based on available data, the classification criteria are not met.		
	ethyl method met	ethyl methacrylate LD50 >5,000 mg/kg (rat) LD50 >5,000 mg/kg (rabbit) LD50 >5,000 mg/kg (rabbit) LC50/4 h 29.8 mg/l (rat) 2-ethylhexyl acrylate 2000 mg/kg (rat) (IUCLID LD50 4,435 mg/kg (rat) (IUCLID LD50 7,522 mg/kg (rabbit) (IUC Triethylene glycol dimethacrylate 10,066 mg/kg (rat) LD50 10,066 mg/kg (rat) LC50/4 h >2,000 mg/kg (rat) LD50 >5,000 mg/kg (rat) LD50 >5,000 mg/kg (rat) LD50 >5,000 mg/kg (rat) LD50 >2,000 mg/kg (rat) LD50 >2,000 mg/kg (rat) ritant effect: 2,000 mg/kg (rat) ry or skin sensitisation cts (carcinogenity, mutagenicity and mutagen

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 qu	uadricauda) (DIN 38412 Part 9; 8d)	
EC0	100 mg/l (Pseudomonas p	putida)	
EC50	69 mg/l (Daphnia magna)	(48 h; OECD 202)	
LC 50	>79 mg/l (Oncorhynchus i	mykiss (Regenbogenforelle)) (96 h; OECD 203)	
103-11-7 2-ethylhe	xyl acrylate		
Inhalative LC50/8h	1.19 mg/l (rat) (OECD 403	3)	
EC50	17 mg/l (Daphnia magna)	(48h; IUCLID)	
EC50	>10,000 mg/l (Pseudomonas putida) (30 min.; IUCLID)		
IC50	44 mg/l (DESMODESMUS	S SUBSPICATUS) (72h, IUCLID)	
LC50	23 mg/l (Leuciscus idus (C	Goldorfe)) (48h; IUCLID)	
12.2 Persistence a		No further relevant information available.	
- 12.3 Bioaccumulat		No further relevant information available.	
	- 12.4 Mobility in soil No further relevant information available.		
		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 PB	- 12.5 Results of PBT and vPvB assessment		
- PBT: Not applicable.			
- vPvB:			
- 12.6 Other adverse effects 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 08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

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Uncleaned packaging:
 Recommendation:

Disposal must be made according to official regulations.

SECTION 14: Transport information	
14.1 UN-Number	
ADR, IMDG, IATA	UN1993
14.2 UN proper shipping name	
ADR	1993 FLAMMABLE LIQUID, N.O.S. (METHYL METHACRYLATE MONOMER
	STABILIZED)
IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (METHYL METHACRYLATE MONOMER,
	STABILIZED)
14.3 Transport hazard class(es)	
ADR	
Class	3 (F1) Flammable liquids.
Label	3
IMDG, IATA	
Class	3 Flammable liquids.
Label	3
14.4 Packing group	
ADR, IMDG, IATA	II
14.5 Environmental hazards:	
Marine pollutant:	No
-	Morning, Flormable liquide
14.6 Special precautions for user Danger code (Kemler):	Warning: Flammable liquids.
EMS Number:	- F-E,S-E
Stowage Category	B
14.7 Transport in bulk according to Annex II of Mar	
Code	Not applicable.
	the approach.
Transport/Additional information:	
ADR	41
Limited quantities (LQ) Excepted quantities (EQ)	1L Code: E2
Excepted quantities (Ew)	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

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

²5C FLAMMABLE L

5,000 t

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- Qualifying quantity (tonnes) for the	(Contd. of page 6)
application of upper-tier requirements - REGULATION (EC) No 1907/2006 ANNEX	50,000 t
XVII	Conditions of restriction: 3
 National regulations: 	
- Information about limitation of use:	Employment restrictions concerning juveniles must be observed. Employment restrictions concerning pregnant and lactating women must be observed. Employment restrictions concerning women of child-bearing age must be observed.
 15.2 Chemical safety assessment: 	A Chemical Safety Assessment has not been carried out.

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. H225 Highly flammable liquid and vanour Polovant phrasos

- Relevant phrases	H225 Highly flammable liquid and vapour. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. H412 Harmful to aquatic life with long lasting effects.
 Department issuing SDS: 	research & development
- 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) LCS0: 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 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- Sources	Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3 Internet:
Couroco	- www.echa.com
	- www.baua.de
	- www.gestis.itrust.de (IFA: Institute für Occupational Safety and
	Health of the German Social Accident Insurance)
 * Data compared to the previous version altered. 	EN