Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 19.03.2024

SYSTEM

Version number 17 (replaces version 16)

Revision: 19.03.2024

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

- 1.1 Product identifier	
- Trade name:	KEMPEROL 1K-SF + light grey
- UFI:	96E8-U0EN-E006-2FSR
 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 	Waterproofing
- 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:	Medical Emergency information in case of poisoning:
	Poison Information Center Mainz - 24 h - Phone: +49 (0) 6131 19240
	(advisory service in German or English language)

SECTION 2: Hazards identification

 - 2.1 Classification of the substance or mixture - Classification according to Regulation (EC) 	
Skin Sens. 1 H317 May cause an allergic	
Aquatic Chronic 3 H412 Harmful to aquatic life	
- 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:	Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl
	sebacate
	benzotriazole derivatives
- Hazard statements	trimethoxyvinylsilane H317 May cause an allergic skin reaction.
	H412 Harmful to aquatic life with long lasting effects.
- Precautionary statements	P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
	P273 Avoid release to the environment.
	P280 Wear protective gloves.
	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.
- Additional information:	EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
- 2.3 Other hazards	
- Results of PBT and vPvB assessment	
- PBT:	Not applicable.

SECTION 3: Composition/information on ingredients

- 3.2 Mixtures - Description:

Mixture: consisting of the following components.



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	(Conto	l. of page 1)
- Dangerous componer	nts:	
CAS: 2768-02-7	trimethoxyvinylsilane	≥0.5-<1%
EINECS: 220-449-8	Flam. Liq. 3, H226; Acute Tox. 4, H332; Skin Sens. 1B, H317	
	Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	≥0.5-<1%
EC number: 915-687-0	Repr. 2, H361f; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1A, H317	
ELINCS: 400-830-7	benzotriazole derivatives	≥0.5-<1%
	Aquatic Chronic 2, H411; Skin Sens. 1A, H317	
- Additional informatio	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.
	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:	CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire extinguishing methods suitable to surrounding conditions.
- For safety reasons unsuitable extinguishing	
agents:	Water with full jet
- 5.2 Special hazards arising from the	-
substance or mixture	Formation of toxic gases is possible during heating or in case of fire.
	Nitrogen oxides (NOx)
	Carbon monoxide (CO)
 - 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.
	Avoid contact with skin and eyes
	Ensure adequate ventilation
- 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	
and cleaning up:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
	Do not flush with water or aqueous cleansing agents
	Dispose contaminated material as waste according to section 13.
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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.		

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 Store only in the original receptacle. receptacles: - Information about storage in one common 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: 10 - 7.3 Specific end use(s) No further relevant information available.

- 8.1 Control parameters	with view of the workplace.		
 Ingredients with limit values that require mo Additional information: 	The lists valid during the making were used as basis.		
	The lists valid during the making were used as basis.		
- 8.2 Exposure controls	No further data, and another 7		
- Appropriate engineering controls - Individual protection measures, such as per	No further data; see section 7.		
	The usual precautionary measures are to be adhered to when handling chemicals.		
· General protective and hygienic measures.	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.		
	When using a small container (maximum 6.5 kg), the occupational exposure limit for methanol is complied with		
	in cross-ventilated work areas.		
	Orientating measurements with larger processing quantities or in unventilated rooms show that the occupationa exposure limit value for methanol is exceeded when processing in rooms.		
	Filter A/P2		
	Respiratory protection - Gas filters and combination filters according to (EN 14387)		
	Provide thorough ventilation during and after processing / curing as methanol is split off during curing.		
- Hand 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		
	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:		
Material of gloves	Butyl rubber, BR		
	Recommended thickness of the material: > 0.5 mm		
	(Contd. on page 4		



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Penetration time (min.): < 480
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.
de of
Nitrile rubber, NBR
Recommended thickness of the material: ≥ 0.1 mm
Penetration time (min.): < 10
Tightly sealed goggles
Protective goggles and facial protection - Classification according to EN 166
protective clothing (EN 13034)
1

- 9.1 Information on basic physical and chemical properties		
- General Information		
- Colour:	According to product specification	
- Odour:	Characteristic	
- Odour threshold:	Not determined.	
- Melting point/freezing point:	Undetermined.	
- Boiling point or initial boiling point and boiling range	Undetermined.	
- Flammability	Not applicable.	
- Lower and upper explosion limit	····	
- Lower:	Not determined.	
- Upper:	Not determined.	
- Flash point:	88 °C (DIN ISO 2719)	
- Decomposition temperature:	Not determined.	
- pH	Not determined.	
- Viscosity:	tet acternition.	
- Kinematic viscosity at 20 °C	6,500 mm²/s	
- Dynamic:	Not determined.	
- Solubility	Hot dotominod.	
- water:	Not miscible or difficult to mix.	
- Partition coefficient n-octanol/water (log value)	Not determined.	
- Density and/or relative density	Hot dotominod.	
- Density at 20 °C:	1.3 g/cm ³	
- Relative density	Not determined.	
- Vapour density	Not determined.	
- 9.2 Other information		
- Appearance:		
- Form:	Fluid	
- Important information on protection of health and environment,	and on	
safety.		
- Ignition temperature:	Product is not selfigniting.	
- Explosive properties:	Product does not present an explosion hazard.	
- Solvent separation test:		
- VOC (EC)	1.00 %	
- Change in condition		
- Evaporation rate	Not determined.	
 Information with regard to physical hazard classes 		
- Explosives	Void	
- Flammable gases	Void	
- Aerosols	Void	
- Oxidising gases	Void	
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- Gases under pressure	Void	
- Flammable liquids	Void	
- Flammable solids	Void	
 Self-reactive substances and mixtures 	Void	
- Pyrophoric liquids	Void	
- Pyrophoric solids	Void	
- Self-heating substances and mixtures	Void	
- Substances and mixtures, which emit flammable gase	s in contact with	
water	Void	
- Oxidising liquids	Void	
- Oxidising solids	Void	
- Organic peroxides	Void	
- Corrosive to metals	Void	
 Desensitised explosives 	Void	

	SECTION	DN 10:	Stabilitv	and reactivit	v
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- 10.1 Reactivity

- 10.2 Chemical stability

- Thermal decomposition / conditions to be
- avoided:
- 10.3 Possibility of hazardous reactions
- 10.4 Conditions to avoid
- 10.5 Incompatible materials:
- 10.6 Hazardous decomposition products:

No further relevant information available.

No decomposition if used according to specifications. No dangerous reactions known. No further relevant information available. No further relevant information available. Hydrolysed to methanol

SECTIO	SECTION 11: Toxicological information					
- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008						
- Acute toxicity			Based on available data, the classification criteria are not met.			
- LD/LC50 values relevant for classification:						
2768-02-7 trimethoxyvinylsilane						
Oral	LD50	7,340-7,460 mg/kg (rat) (OECD 401)				
Dermal	LD50	3,460-4,000 mg/kg (rabbi	t) (OECD 402)			
Inhalative	LC50/4 h	16.79 mg/l (rat)				
1065336-9	91-5 Reac	tion mass of bis(1,2,2,6,6	-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate			
Oral	LD50	3,230 mg/kg (rat) (OECD-guidline 423)				
Dermal	LD50	>3,170 mg/kg (rat) (OECI	D Guideline 402 (Acute Dermal Toxicity))			
benzotria	zole deriv					
Oral	LD50	>5,000 mg/kg (rat) (OECI	D 401)			
Dermal	LD50	>2,000 mg/kg (rat) (OECI	D 402)			
- Skin corre	- Skin corrosion/irritation		Based on available data, the classification criteria are not met.			
- Serious e			Based on available data, the classification criteria are not met.			
		sensitisation	May cause an allergic skin reaction.			
- Germ cell		icity	Based on available data, the classification criteria are not met.			
- Carcinog			Based on available data, the classification criteria are not met.			
- Reproduc			Based on available data, the classification criteria are not met.			
- STOT-sin			Based on available data, the classification criteria are not met.			
- STOT-rep		osure	Based on available data, the classification criteria are not met.			
- Aspiration hazard			Based on available data, the classification criteria are not met.			
- 11.2 Information on other hazards						
	- Endocrine disrupting properties					
None of the ingredients is listed.						

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SECTION 12: Ecological information							
- 12.1 Toxicity							
- Aquatic toxicity:							
	/ trimethoxyvinylsilane						
NOEC	28 mg/kg (Daphnia magna) (21d)						
EC50	>100 mg/l (Daphnia magna) (OECD 202)						
EC50	297.2 mg/l (Daphnia magna) (24h)						
EC10	1.1 mg/l (Pseudomonas putida) (3h; acute)						
LOID	32 mg/l (Selenastrum capricornutum) (7d; acute)						
EC50	>100 mg/l (DESMODESMUS SUBSPICATUS) (72h; Growth Inhibition Test; acute)						
LOSO	>100 mg/l (daphnia) (48h; Watery twigs acute)						
	168.7 mg/l (Daphnia magna) (48						
EC50	210 mg/l (Selenastrum capricornutum) (7d; static acute)						
LC 50	191 mg/l (Oncorhynchus mykiss (Regenbogenforelle)) (96h acute)						
LC50	>100 mg/l (Brachydanio rerio (Ricefish)) (96h; static acute)						
NOEC	28 mg/l (Daphnia magna) (21d)						
NOEC	25 mg/l (Selenastrum capricornutum) (7d; acute)						
1065336-	91-5 Reaction mass of bis(1,2,2,	6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate					
EC50	0.42 mg/l (ALGAE) (OECD 201)						
LC50	0.9 mg/l /72 h (fish) (OECD 203 (96 hr))						
	zole derivatives						
NOEC	100 mg/kg (Eisenia fetida/foetida						
LC50/96 I		(Regenbogenforelle)) (OECD 203; ISO 7346; 84/449/EWG,C1 stat.)					
EC50	>1,000 mg/l (Belebtschlamm) (3	h; OECD 209)					
EC50	4 mg/l (Daphnia magna) (48h;)						
EC10	10 mg/l (Pseudokirchneriella subcapitata) (72h; OECD 201)						
EC50	>100 mg/l (Pseudokirchneriella s	subcapitata) (72h; OECD 201)					
NOEC	0.78 mg/l (Daphnia magna) (21d	I; OECD 202, Part 2)					
	istence and degradability	No further relevant information available.					
	ccumulative potential	No further relevant information available. No further relevant information available.					
	ility in soil ults of PBT and vPvB assessmer						
- PBT:		Not applicable.					
- vPvB:		Not applicable.					
	ocrine disrupting properties	The product does not contain substances with endocrine disrupting properties.					
	er adverse effects						
- General i	al ecological information:	Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.					
contrain		Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water					
		Do not allow product to reach ground water, water course or sewage system.					
		Danger to drinking water if even small quantities leak into the ground.					

- 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	
- Europear	n waste catalogue		
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances		
15 01 10*	packaging containing residues of or contaminated by hazardous substances		
17 02 03	plastic		
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Uncleaned packaging:
 Recommendation:

Disposal must be made according to official regulations.

SECTION 14: Transport information				
- 14.1 UN number or ID number - ADR, ADN, IMDG, IATA	Void			
- 14.2 UN proper shipping name - ADR, ADN, IMDG, IATA	Void			
- 14.3 Transport hazard class(es) - ADR, ADN, IMDG, IATA - Class	Void			
- 14.4 Packing group - ADR, IMDG, IATA	Void			
- 14.5 Environmental hazards: - Marine pollutant:	No			
- 14.6 Special precautions for user	Not applicable.			
- 14.7 Maritime transport in bulk according to IMO instruments Not applicable.				
- UN "Model Regulation":	Void			

SECTION 15: Regulatory information

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

- Directive 2012/18/EU

XVII

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

- REGULATION (EU) 2019/1148

- Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

- Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed. - Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors None of the ingredients is listed.

- 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.

The safety data sheet issued is also compliant with the regulation Annex I of Regulation (EU) no. 453/2010 and Annex II of Regulation (EU) no. 2020/878.

- Relevant phrases

- H226 Flammable liquid and vapour. H317 May cause an allergic skin reaction.
- H332 Harmful if inhaled.
- H361f Suspected of damaging fertility.

H400 Very toxic to aquatic life.

- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.

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- Department issuing SDS:	research & development
- Contact:	research & development
- Date of previous version:	08.04.2021
- Version number of previous version:	16
- Abbreviations and acronyms:	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: 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 DBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids – Category 3 Acute Tox. 4: Acute toxicity – Category 1 Skin Sens. 11: Skin sensitisation – Category 1 Skin Sens. 18: Skin sensitisation – Category 2 Aquatic Acute 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
	Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
- Sources	Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3 - 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.	