Safety data sheet

S KEMPER

Revision: 29.04.2021

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according to 1907/2006/EC, Article 31 Printing date 29.04.2021 Version number 11 SECTION 1: Identification of the substance/mixture and of the company/undertaking - 1.1 Product identifier **KEMPEROL 1K-SF** - Trade name: 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 research & development - 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 H317 May cause an allergic skin reaction. Skin Sens. 1 Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects. - 2.2 Label elements - Labelling according to Regulation (EC) No The product is classified and labelled according to the CLP regulation. 1272/2008 - 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-4piperidyl sebacate benzotriazole derivatives - Hazard statements 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. Dispose of contents/container in accordance with local/regional/national/international P501 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 Mixtures - Description: Mixture: consisting of the following components. - Dangerous components: CAS: 2768-02-7 trimethoxyvinylsilane EINECS: 220-449-8 Flam. Liq. 3, H226; Acute Tox. 4, H332 Reg.nr.: 01-2119513215-52 CAS: 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 EC number: 915-687-0 sebacate

Reg.nr.: 01-2119491304-40 Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1A, H317 0.5-2.5%

≥0.5-<1%

⁽Contd. on page 2)



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Trade name: KEMPEROL 1K-SF

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	benzotriazole derivatives	≥0.5-<1%
Index number: 607-176-00-3	Aquatic Chronic 2, H411; Skin Sens. 1, H317	
Reg.nr.: 01-0000015075-76		
- 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.
	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. - 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 Do not inhale explosion gases or combustion gases. - 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.	
	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).	
0 1	Do not flush with water or aqueous cleansing agents	
	Dispose contaminated material as waste according to item 13.	
- 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 - Storage: Requirements to be met by storerooms an receptacles: 		(Contd. on page 3)



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- Information about storage in one common		(Contd. of page 2)
storage facility: - Further information about storage	Store away from foodstuffs.	
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.	

SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters	
- Ingredients with limit values that require mo	
- Additional information:	The lists valid during the making were used as basis.
- 8.2 Exposure controls	
- Appropriate engineering controls	No further data; see item 7.
- Individual protection measures, such as per	sonal 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
	Respiratory protection - Gas filters and combination filters according to (DIN EN 141)
	Provide thorough ventilation during and after processing / curing as methanol is split off during curing.
- Hand protection	m la
	M Protective gloves
	Flotective gioves
	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
	The selection of the suitable gloves does not only depend on the material, but also on further marks of
Dependention time of aloue meterial	quality and varies from manufacturer to manufacturer.
 Penetration time of glove material 	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
- As protection from splashes gloves made of	recommended.
the following materials are suitable:	
the following materials are suitable.	Manufacturer's recommendation:
	Nitrile rubber, NBR Recommended thickness of the material: ≥ 0.1 mm
	Penetration time (min.): < 10
- Eye/face protection	relevation time (min.). < To
	رات المراجع
	Distostive gaggies and facial protection - Obscification according to EN 400
Padu protection.	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
- Colour:

According to product specification



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Trade name: KEMPEROL 1K-SF

			(Contd. of page 3)
- Odour:		Characteristic	
- Odour threshold:		Not determined.	
 Melting point/freezing point: Boiling point or initial boiling point and b 	oiling rongo	Undetermined.	
- Boning point of Initial boning point and b		Undetermined. Not applicable.	
- Lower and upper explosion limit		Not applicable.	
- Lower:		Not determined.	
- Upper:		Not determined.	
- Flash point:		88 °C (DIN ISO 2719)	
 Auto-ignition temperature: 		Product is not selfigniting.	
- Decomposition temperature:		Not determined.	
- pH		Not determined.	
- Viscosity: - Kinematic viscosity at 20 °C		6.500 mm²/s	
- Dynamic:		Not determined.	
- Solubility		Not determined.	
- water:		Not miscible or difficult to mix.	
- Partition coefficient n-octanol/water (log	/alue)	Not determined.	
- Density and/or relative density			
- Density at 20 °C:		1.3 g/cm³	
- Relative density		Not determined.	
- Vapour density		Not determined.	
- 9.2 Other information			
- Appearance:			
- Form:		Fluid	
- Important information on protection of he	alth and environment, and o	n	
safety. - Explosive properties:		Product does not present an explosion hazard.	
- Solvent content:		rioudel does not present an explosion nazaru.	
- Organic solvents:		0.1 %	
- VOC (EC)		1.00 %	
- Change in condition			
- Evaporation rate		Not determined.	
 Information with regard to physical hazar 	d classes		
- Explosives			
- Flammable gases	Void		
- Flainnable gases	Void		
- Aerosols	Vold		
	Void		
- Oxidising gases			
	Void		
- Gases under pressure			
	Void		
- Flammable liquids	Volu		
	Void		
- Flammable solids			
	Void		
 Self-reactive substances and mixtures 			
	Void		
- Pyrophoric liquids			
	Void		
 Pyrophoric solids 			
Colf besting substances and whether	Void		
- Self-heating substances and mixtures			
- Substances and mixtures, which emit flar	Void		
water	innable gases in contact with		
	Void		
			(Contd. on page 5)

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		(Contd. of page 4)
- Oxidising liquids		
- Oxidising solids	Void	
- Oxidising solids	Void	
- Organic peroxides		
- Corrosive to metals	Void	
	Void	
- Desensitised explosives		
	Void	

10.2 Chemical stability Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. No further relevant information available. No further relevant information available data, the classification criteria are not met. DI/C50 values relevant for classification: Z768-02-7 trimethoxyvinyisliane Oral LD50 7.340-7.460 mg/kg (rabbit) (OECD 401) Dermal LD50 7.340-7.460 mg/kg (rabbit) (OECD 402) Inhalative LC504 h 16.79 mg/l (rat) Dermal (LD50 > 3.230 mg/kg (rat) (OECD 401) Dermal LD50 > 2.000 mg/kg (rat) (OECD 402) Second available data, the classification criteria are not met. Reproductive toxicity Based on available data, the classification criteria are not met. Repro	10.1 Reac			No further relevant information available.	
avolded: No decomposition if used according to specifications. No decomposition if used according to specifications. No decomposition fused according to specifications. No decompositions known. No further relevant information available. No further relevant information available. Hydrolysed to methanol SECTION 11: Toxicological information SECTION 12: 500 + 50,000 m	10.2 Chen	nical stal	bility		
10.3 Possibility of hazardous reactions No dangerous reactions known, g about the second		lecompo	sition / conditions to be	No decomposition if used according to apositiontions	
10.4 Conditions to avoid No further relevant information available. 10.5 Incompatible materials: No further relevant information available. 10.6 Hazardous decomposition products: Hydrolysed to methanol SECTION 11: Toxicological information etals SECTION 11: Toxicological information SECTION 11: Toxicological information etals SECTION 11: Toxicological information SECTION 12: 2: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0:		ibility of	hazardous reactions		
10.5 Incompatible materials: No further relevant information available. 10.5 Hazardous decomposition products: Hydrolysed to methanol SECTION 11: Toxicological information Section 20: Sectin					
10.6 Hazardous decomposition products: Hydrolysed to methanol 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 3,440-7,460 mg/kg (rat) (OECD 401) Dermal LD50 3,400-7,460 mg/kg (rat) (OECD 402) Inhalative LC50/4 h 16.79 mg/l (rat) 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 Oral LD50 3,210 mg/kg (rat) (OECD 402) Demative interve Dased on available data, the classification criteria are not met. Skin corrosion/irritation Based on available data, the classification criteria are not met. Selficitation criteria are not met. Reproductive toxicity Based on available data, the classification criteria are not met. Selficitation criteria are not met. Selficititon criteria are not met.					
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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. Image: Comparison of the ingredients is listed.					
11.2 Information on other hazards Endocrine disrupting properties None of the ingredients is listed.			posure		
None of the ingredients is listed.			n other hazards		
None of the ingredients is listed.	Endocrine	disrupt	ing properties		
		-			
SECTION 12: Ecological information	None of th				
SECTION 12 [,] Ecological information	None of th				
	None of th				

- Aquatic toxicity: 2768-02-7 trimethoxyvinylsilane NOEC 28 mg/kg (Daphnia magna) (21d) EC50 >100 mg/l (Daphnia magna) (OECD 202) EC50 297.2 mg/l (Daphnia magna) (24h) (Contd. on page 6)

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		(Contd. of page 5)
EC10	1.1 mg/l (Pseudomonas putida) (3	h; acute)
	32 mg/l (Selenastrum capricornut	um) (7d; acute)
EC50	>100 mg/I (DESMODESMUS SUE	3SPICATUS) (72h; Growth Inhibition Test; acute)
	>100 mg/l (daphnia) (48h; Watery	twigs acute)
	168.7 mg/l (Daphnia magna) (48h	
EC50	210 mg/l (Selenastrum capricornu	tum) (7d; static acute)
LC 50	191 mg/l (Oncorhynchus mykiss (Regenbogenforelle)) (96h acute)
LC50	>100 mg/l (Brachydanio rerio (Ric	efish)) (96h; static acute)
NOEC	28 mg/l (Daphnia magna) (21d)	
NOEC	25 mg/l (Selenastrum capricornut	um) (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 (9	06 hr))
benzotria	zole derivatives	
NOEC	100 mg/kg (Eisenia fetida/foetida)	(56d; OECD 222)
LC50/96	h 2.8 mg/l (Oncorhynchus mykiss (F	Regenbogenforelle)) (OECD 203; ISO 7346; 84/449/EWG,C1 stat.)
EC50	EC50 >1,000 mg/l (Belebtschlamm) (3h; OECD 209)	
EC50	EC50 4 mg/l (Daphnia magna) (48h;)	
EC10	EC10 10 mg/l (Pseudokirchneriella subcapitata) (72h; OECD 201)	
EC50	>100 mg/l (Pseudokirchneriella su	bcapitata) (72h; OECD 201)
NOEC	0.78 mg/l (Daphnia magna) (21d;	OECD 202, Part 2)
	sistence and degradability	No further relevant information available.
	accumulative potential	No further relevant information available.
	pility in soil	No further relevant information available.
- 12.5 Res - PBT:	ults of PBT and vPvB assessment	Not applicable.
- vPvB:		Not applicable.
	ocrine disrupting properties	The product does not contain substances with endocrine disrupting properties.
- 12.7 Oth	- 12.7 Other adverse effects	
	al ecological information:	
- General I	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.

SECTION 13: Disposal conside	erations
 - 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	s containing organic solvents or other hazardous substances
15 01 10* packaging containing residue	s of or contaminated by hazardous substances
17 02 03 plastic	
- Uncleaned packaging: - Recommendation:	Disposal must be made according to official regulations.
SECTION 14: Transport inform	ation
- 14.1 UN number or ID number - ADR, ADN, IMDG, IATA	Void
- 14.2 UN proper shipping name - ADR, ADN, IMDG, IATA	Void
14.2 Transport barand class(ca)	

Void

- 14.3 Transport hazard class(es) - ADR, ADN, IMDG, IATA

- Class

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		(Contd. of page 6)
- 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 IM	O 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

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

- REGULATION (EC) No 1907/2006 ANNEX XVII

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.

- National regulations:

- Information about limitation of use:

- 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. 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. H226 Flammable liquid and vapour.

Employment restrictions concerning juveniles must be observed.

A Chemical Safety Assessment has not been carried out.

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

- Relevant phrases

	H317 May cause an allergic skin reaction. H332 Harmful if inhaled. 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.
 Department issuing SDS: Contact: Date of previous version: Version number of previous version: Abbreviations and acronyms: 	research & development research & development 11.01.2021 10 ADR: Accord relatif au transport international 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. 3: Flammable liquids – Category 3 Acute Tox. 4: Acute toxicity – Category 4 Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1A: Skin sensitisation – Category 1 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Chronic 1: 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: (Contd. on page 8)



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

- * Data compared to the previous version altered.