Safety data sheet

according to 1907/2006/EC, Article 31

Version number 2 (replaces version 1)

Revision: 15.03.2023

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

- 1.1 Product identifier	
- Trade name:	KEMPERTEC Rapid SF Primer (B)
- UFI:	GEHA-H00C-6009-TWNS
 - 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 	Primer
- 1.3 Details of the supplier of the safety data - Manufacturer/Supplier:	sheet KEMPER SYSTEM LTD Kemper House 30 Kingsland Grange Warrington WA1 4RW www.kempersystem.co.uk enquiries@kempersystem.co.uk phone: +44 (0)1925 445532 fax: +44 (0)1925 575096
- Further information obtainable from: - 1.4 Emergency telephone number:	research & development 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 mixtu	
- Classification according to Regulation (EC)	NO 12/2/2008
Acute Tox. 4 H332 Harmful if inhaled.	
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 classified and labelled according to the GB CLP regulation.
- Hazard pictograms	
	•
	GHS07
- Signal word	Warning
- Hazard-determining components of	
labelling:	Hexamethylene diisocyanate, oligomers
	hexamethylene-di-isocyanate
 Hazard statements 	H332 Harmful if inhaled.
	H317 May cause an allergic skin reaction.
	H335 May cause respiratory irritation.
 Precautionary statements 	P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves.
	P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P312 Call a POISON CENTER/doctor if you feel unwell.
	P405 Store locked up.
	P501 Dispose of contents/container in accordance with local/regional/national/international
	regulations.
- Additional information:	EUH204 Contains isocyanates. May produce an allergic reaction.
- 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: 28182-81-2 Hexamethylene diisocyanate, oligomers 50-100% NLP: 500-060-2 Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335 Reg.nr.: 01-2119488934-20 (Contd. on page 2)

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	(Contd.	of page 1)
CAS: 822-06-0	hexamethylene-di-isocyanate	<0.1%
EINECS: 212-485-8	Acute Tox. 3, H331; Resp. Sens. 1, H334; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1,	
Index number: 615-011-00-1	H317; STOT SE 3, H335, EUH204	
Reg.nr.: 01-2119457571-37	Specific concentration limits: Resp. Sens. 1; H334: $C \ge 0.5$ %	
	Skin Sens. 1; H317: C ≥ 0.5 %	
- 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:	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 	g
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 (CÓ)
 - 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.
•	Dilute with plenty of water.
	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	5
and cleaning up:	Absorb with liguid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
····· ································	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	ge	
- 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.	(Contd. on page 3)

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		(Contd. of page 2)
 Information about fire - and explosion 		
protection:	Keep ignition sources away - Do not smoke.	
- 7.2 Conditions for safe storage, including ar	ny 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.	
	Keep container tightly sealed.	
	Store in dry conditions.	
	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	onitoring at the workplace:
822-06-0 hexamethylene-di-isocyanate	
WEL Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO	
- Regulatory information	WEL: EH40/2020
 Ingredients with biological limit values: 	
822-06-0 hexamethylene-di-isocyanate	
BMGV 1 µmol creatinine/mol Medium: urine Sampling time: At the end of the period Parameter: isocyanate-derived diamine	
- 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 General protective and hygienic measures: 	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:	In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Not necessary if room is well-ventilated. Use suitable respiratory protective device in case of insufficient ventilation. Wear suitable respirators during spray applications. Filter A/P2
- Hand protection	Respiratory protection - Gas filters and combination filters according to (DIN EN 141) Protective gloves
- Material of gloves	Only use chemical-protective gloves with CE-labelling of category III. Check protective gloves prior to each use for their proper condition. 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. 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 quality and varies from manufacturer to manufacturer. (Contd. on page 4) GB –

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(Contd. of page 3) - 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 recommended. - As protection from splashes gloves made of the following materials are suitable: Nitrile rubber, NBR Recommended thickness of the material: ≥ 0.1 mm Penetration time (min.): < 10 - Eye/face protection Virtile rubber, NBR Recommended thickness of the material: ≥ 0.1 mm Penetration time (min.): < 10 - Eye/face protection Virtile rubber, NBR Recommended thickness of the material: ≥ 0.1 mm Penetration time (min.): < 10 - Eye/face protection Virtile rubber, NBR Recommended thickness of the material: ≥ 0.1 mm Penetration time (min.): < 10 - Eye/face protection Virtile rubber, NBR Recommended thickness of the material: ≥ 0.1 mm Penetration time (min.): < 10 - Eye/face protection: Protective goggles and facial protection - Classification according to EN 166 protective clothing (EN 13034) - Body protection: Protective clothing (EN 13034) - SECTION 9: Physical and chemical properties - General Information - 9.1 Information on basic physical and chemical properties - General Information - Physical state Fluid - Physical state Fluid				
the following materials are suitable: Nitrile rubber, NBR Recommended thickness of the material: ≥ 0.1 mm Penetration time (min.): < 10 Tightly sealed goggles • Eye/face protection Fightly sealed goggles • Body protection: Protective goggles and facial protection - Classification according to EN 166 protective clothing (EN 13034) • SECTION 9: Physical and chemical properties • • 9.1 Information on basic physical and chemical properties • • General Information Fluid	- 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		
• Eye/face protection Recommended thickness of the material: ≥ 0.1 mm Penetration time (min.): < 10 Tightly sealed goggles • Body protection: Protective goggles and facial protection - Classification according to EN 166 protective clothing (EN 13034) • SECTION 9: Physical and chemical properties • 9.1 Information on basic physical and chemical properties • General Information • Physical state • Fluid	- As protection from splashes gloves made	e of		
Tightly sealed goggles Tightly sealed goggles Protective goggles and facial protection - Classification according to EN 166 protective clothing (EN 13034)	the following materials are suitable:	Nitrile rubber, NBR Recommended thickness of the material: \geq 0.1 mm		
Body protection: protective clothing (EN 13034) SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical properties General Information Physical state Fluid	- Eye/face protection	Tightly sealed goggles		
- 9.1 Information on basic physical and chemical properties - General Information - Physical state Fluid	- Body protection:			
- General Information - Physical state Fluid				
- Physical state Fluid		emical properties		
3 · · · · · · · · · · · · · · · · · · ·				
- COIDUESS	- Colour:	Colourless		

- Physical state	Fluid	
- Colour:	Colourless	
- Odour:	Light	
- 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:	203 °C	
- Decomposition temperature:	Not determined.	
- pH	Mixture reacts violently with water.	
r	Not determined.	
- Viscosity:		
- Kinematic viscosity at 20 °C	833 mm²/s	
- Dynamic:	Not determined.	
- Solubility		
- water:	Hydrolised.	
- Partition coefficient n-octanol/water (log value)	Not determined.	
- Density and/or relative density		
- Density at 20 °C:	1.15 a/cm³	
- Relative density	Not determined.	
- Vapour density	Not determined.	
- 9.2 Other information		
- Appearance:		
- Appearance. - Form:	Fluid	
- Important information on protection of health and environment, and on		
safety.		
- Auto-ignition temperature:	Product is not colficniting	
- Explosive properties:	Product is not selfigniting.	
- Solvent separation test:	Product does not present an explosion hazard.	
- VOC (EC)	0.00 %	
- Change in condition	0.00 %	
- Evaporation rate	Not determined.	
-		
 Information with regard to physical hazard classes 		
- Explosives	Void	
- Flammable gases	Void	
- Aerosols	Void	
- Oxidising gases	Void	
- Gases under pressure	Void	
- Flammable liquids	Void	
- Flammable solids	Void	
 Self-reactive substances and mixtures 	Void	
- Pyrophoric liquids	Void	
- Pyrophoric solids	Void	
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		(Contd. of page 4)
 Self-heating substances and mixtures 	Void	
- Substances and mixtures, which emit flammable g	ases in contact with	
water	Void	
- Oxidising liquids	Void	
- Oxidising solids	Void	
- Organic peroxides	Void	
- Corrosive to metals	Void	
 Desensitised explosives 	Void	

SECTIO	ON 10: Stability and reactivit	ty	
- 10.1 Rea	•	No further relevant information available.	
	mical stability		
- Thermal decomposition / conditions to be			
avoided:		No decomposition if used according to specifications.	
- 10.3 Pos	sibility of hazardous reactions	Reacts with alcohols, amines, aqueous acids and alkalis. Reacts with water.	
- 10.4 Con	ditions to avoid	No further relevant information available.	
- 10.5 Inco	ompatible materials:	Amines, acids, alkalis, strong oxidants, alcohols	
- 10.6 Hazardous decomposition products:		No dangerous decomposition products known.	
- 10.6 Haz	ardous decomposition products.		
	DN 11: Toxicological inform		
SECTIC	DN 11: Toxicological inform		
SECTIC	DN 11: Toxicological inform	ation	
SECTIO - 11.1 Info - Acute to:	DN 11: Toxicological inform	ation ned in Regulation (EC) No 1272/2008	
SECTIO - 11.1 Info - Acute tox - LD/LC50	ON 11: Toxicological inform rmation on hazard classes as definitive xicity	ation ned in Regulation (EC) No 1272/2008 Harmful if inhaled.	
SECTIO - 11.1 Info - Acute tox - LD/LC50	DN 11: Toxicological inform rmation on hazard classes as defin xicity values relevant for classification:	ation ned in Regulation (EC) No 1272/2008 Harmful if inhaled.	
SECTIO - 11.1 Info - Acute to: - LD/LC50 28182-81	DN 11: Toxicological inform rmation on hazard classes as defin xicity values relevant for classification: -2 Hexamethylene diisocyanate, ol	ation ned in Regulation (EC) No 1272/2008 Harmful if inhaled. igomers ED 423; female)	

~2,000 mg/kg (labbit)		~2,000 mg/kg (labbit)		
Inhalative LC50/4 h 0.39 mg/l (rat) ((dust & fo		0.39 mg/l (rat) ((dust & for	rk) OCED 403; Pauluhn, J. (2008).)	
	ATEmix	1.5 mg/l (rat) (*2)		
822-06-0	822-06-0 hexamethylene-di-isocyanate			
Oral	LD50	959 mg/kg (rat) (OECD 4	01)	
Dermal	LD50	>7,000 mg/kg (rat) (OECI	D 402)	
Inhalative	LC50/4 h	1.5 mg/l (rat) (OECD 403)		
	ATEmix	1.5 mg/l (rat) (*2)		
- Skin corr	osion/irrit	ation	Based on available data, the classification criteria are not met.	
- Serious e	- Serious eye damage/irritation		Based on available data, the classification criteria are not met.	
 Respirato 	- Respiratory or skin sensitisation		May cause an allergic skin reaction.	
 Germ cell 	- Germ cell mutagenicity		Based on available data, the classification criteria are not met.	
- Carcinog	- Carcinogenicity		Based on available data, the classification criteria are not met.	
 Reproduce 	- Reproductive toxicity		Based on available data, the classification criteria are not met.	
- STOT-sin	- STOT-single exposure		May cause respiratory irritation.	
- STOT-rep	- STOT-repeated exposure		Based on available data, the classification criteria are not met.	
 Aspiration 	- Aspiration hazard		Based on available data, the classification criteria are not met.	
- 11.2 Infor	mation or	n other hazards		
- Endocrine	e disrupti	ng properties		
None of th	e ingredie	nts is listed.		

SECTION 12: Ecological information

- 12.1 Toxicity					
- Aquatic	- Aquatic toxicity:				
28182-87	28182-81-2 Hexamethylene diisocyanate, oligomers				
ErC50	>1,000 mg/l (DESMODESMUS SUBSPICATUS) (0-72h static / EU C.3)				
	>199 mg/l (Scenedesmus subspicatus) (72h; guideline 67/548/EWG annex V; C3)				
EC50	>100 mg/l (DESMODESMUS SUBSPICATUS) (72; OECD 201)				
		(Contd. on nago 6)			

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			(Contd. of page 5)	
	>100 mg/l (Daphnia magna) (48h)			
EC50	>10,000 mg/l (Belebtschlamm) (3h,	EG/RL 88-302-EEC)		
EC50	>1,000 mg/l (Scenedesmus subspic	catus) (72h / DIN 38412)		
	127 mg/l (daphnia) (48h static / EU C.2)			
LC 50	8.9 mg/l (Brachydanio rerio (Ricefis	h))		
LC50	>100 mg/l (Danio rerio (Zebrabärbli	ng)) (96h)		
822-06-0 h	822-06-0 hexamethylene-di-isocyanate			
ErC50	50 >77.4 mg/l (DESMODESMUS SUBSPICATUS)			
LC50/96 h	LC50/96 h 22 mg/l (Brachydanio rerio (Ricefish))			
NOEC 11.7 mg/l (DESMODESMUS SUBSPICATUS) (72 h - EU method C.3)				
EC0	>89.1 mg/l (daphnia) (48 hour - EU	C.2)		
EC50	842 mg/l (Bacteria) (3h-static - OEC	CD 209)		
LOEC	C 12.6 mg/l (DESMODESMUS SUBSPICATUS) (72 h - EU method C.3)			
- 12.2 Persi	- 12.2 Persistence and degradability No further relevant information available.			
- 12.3 Bioad	cumulative potential	No further relevant information available.		
- 12.4 Mobility in soil		No further relevant information available.		
- 12.5 Resu	- 12.5 Results of PBT and vPvB assessment			
- PBT:		Not applicable.		
- vPvB:		Not applicable.		
	crine disrupting properties	The product does not contain substances with endocrine disrupting properties.		
	adverse effects			
	ecological information:			
- General n	otes:	Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for wa	ater	

SECTION 13: Disposal consideration - 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 05 01*	waste isocyanates	
15 01 10*	packaging containing residues	s of or contaminated by hazardous substances
17 02 03	plastic	

Recommendation: - Recommended cleansing agents: Disposal must be made according to official regulations. Water, if necessary together with cleansing agents.

SECTION 14: Transport information		
- 14.1 UN number or ID number - ADR, IMDG, IATA	Void	
 - 14.2 UN proper shipping name - ADR, 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:	Not applicable.	
- 14.6 Special precautions for user	Not applicable.	
- 14.7 Maritime transport in bulk according to IMO instruments Not applicable.		
- UN "Model Regulation":	Void	GB

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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. - REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 74 - 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 H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H331 Toxic if inhaled. H332 Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. H334 H335 May cause respiratory irritation. EUH204 Contains isocyanates. May produce an allergic reaction. - Department issuing SDS: research & development research & development - Contact: - Date of previous version: 02.12.2022 - Version number of previous version: ADR: Accord relatif au transport international 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 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 Acute Tox. 3: Acute toxicity – Category 3 Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Resp. Sens. 1: Respiratory sensitisation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) - 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

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