

3.1 Substance n.a.	In case of irritation of the lungs, perform first-aid with control	
SECTION 3: Composition/information on ingredients	In case of sensitivity, concentrations below the limit value markers of sensitivity, concentrations below the limit value markers and the sensitivity of the sensitity of the sensitivity of the sensitivity of the sensitivit	ar after an extended period / after several hours.
under XIII of the regulation (EC) 1907/2006 (< 0,1 %).	Coughing Headaches Effect on the central nervous system Asthmatic symptoms	
The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %). The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included	Allergic contact eczema Discoloration of the skin Irritant to mucosa of the nose and throat	
2.2'-methylenediphenyl diisocyanate 2.3 Other hazards	The following may occur: Dermatitis (skin inflammation) Drying of the skin.	
o-(p-isocyanatobenzyl)phenylisocyanate Diphenylmethanediisocyanate, isomeres and homologues	4.2 Most important symptoms and effects, the following may occur:	
4.4-methylenediphenyl diisocyanate	Do not induce vomiting - give copious water to drink. Consul Never pour anything into the mouth of an unconscious perso	n!
Continue rinsing. P308+P313-IF exposed or concerned: Get medical advice / attention. EUH204-Contains isocyanates. May produce an allergic reaction.	Wash thoroughly for several minutes using copious water - o Ingestion Rinse the mouth thoroughly with water.	all doctor immediately, have Data Sheet available.
P302+P352-IF ON SKIN: Wash with plenty of water and soap. P304+P340-IF INHALED. Remove person to fresh air and keep comfortable for breathing. P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.	Dab away with polyethylene glycol 400 Eye contact Remove contact lenses.	
protective gloves / protective clothing and eye protection / face protection. P284-Wear respiratory protection.	Remove polluted, soaked clothing immediately, wash thorou irritation of the skin (flare), consult a doctor. Dab away with polyethylene glycol 400	ghly with plenty of water and soap, in case of
repeated exposure. H351-Suspected of causing cancer. P201-Obtain special instructions before use. P260-Do not breathe vapours or spray. P280-Wear	Skin contact Wipe off residual product carefully with a soft, dry cloth.	
irritation. H334-May cause allergy or asthma symptoms or breating difficulties if inhaled. H317- May cause an allergic skin reaction. H373-May cause damage to organs through prolonged or repeated exposure. H351-Suspected of causing cancer.	Supply person with fresh air and consult doctor according to If the person is unconscious, place in a stable side position a Respiratory arrest - Artificial respiration apparatus necessar	and consult a doctor.
- H319-Causes serious eye irritation. H335-May cause respiratory irritation. H315-Causes skin	Inhalation Remove person from danger area.	
Danger	4.1 Description of first aid measures	
· · · ·	account. SECTION 4: First a	aid measures
	For the text of the H-phrases and classification codes (GHS) The substances named in this section are given with their ar For substances that are listed in appendix VI, table 3.1/3.2 or regulation) this means that all notes that may be given here	tual, appropriate classification! f the regulation (EC) no. 1272/2008 (CLP
Labeling according to Regulation (EC) 1272/2008 (CLP)		Resp. Sens. 1, H334 Skin Sens. 1, H317
2.2 Label elements		STOT KE 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315
Carc. 2 H351-Suspected of causing cancer.	Classification according to Regulation (EC) 1272/2008 (CLP)	Carc. 2, H351 Acute Tox. 4, H332 STOT RE 2, H373
Skin Sens. 1 H317-May cause an allergic skin reaction. STOT RE 2 H373-May cause damage to organs through	EINECS, ELINCS, NLP CAS content %	2536-05-2 0,1-<1
Skin Irrit. 2 H315-Causes skin irritation. Resp. Sens. 1 H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled.	Registration number (REACH) Index	01-2119927323-43-XXXX 615-005-00-9 219-799-4
STOT SE 3 H335-May cause respiratory irritation.	2,2'-methylenediphenyl diisocyanate	STOT RE 2, H373
Classification according to Regulation (EC) 1272/2008 (CLP) Hazard class Hazard category Hazard statement Eye Irrit. 2 H319-Causes serious eye irritation.		Skin Sens. 1, H317 Carc. 2, H351
2.1 Classification of the substance or mixture		STOT E 3, H335 Skin Irrit. 2, H315 Resp. Sens. 1, H334
SECTION 2: Hazards identification	Classification according to Regulation (EC) 1272/2008 (CLP)	Acute Tox. 4, H332 Eye Irrit. 2, H319
+49 (0) 700 / 24 112 112 (WIC)	EINECS, ELINCS, NLP CAS content %	9016-87-9 1-<10
Telephone number of the company in case of emergencies:	Registration number (REACH) Index	*** ***
1.4 Emergency telephone number Emergency information services / official advisory body:	Diphenylmethanediisocyanate, isomeres and homologues	
Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.		Skin Irrit. 2, H315 Resp. Sens. 1, H334 Skin Sens. 1, H317
mholzer@knapp-verbinder.com		Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315
(QB) Knapp GmbH, Wassergasse 31, 3324 Euratsfeld, Austria Phone: +43 (0)7474 / 799 10, Fax: +43 (0)7474 / 799 10 99	Classification according to Regulation (EC) 1272/2008 (CLP)	Carc. 2, H351 Acute Tox. 4, H332 STOT RE 2, H373
1.3 Details of the supplier of the safety data sheet	CAS content %	5873-54-1 1-<10
Uses advised against: No information available at present.	Index EINECS, ELINCS, NLP	615-005-00-9 227-534-9
Relevant identified uses of the substance or mixture:	o-(p-isocyanatobenzyl)phenylisocyanate Registration number (REACH)	01-2119480143-45-XXXX
1.2 Relevant identified uses of the substance or mixture and uses advised against		Skin Irrit. 2, H315 Resp. Sens. 1, H334 Skin Sens. 1, H317
KNAPP PM+ KLEBER GLUE COLLA		Eye Irrit. 2, H319 STOT SE 3, H335
1.1 Product identifier	Classification according to Regulation (EC) 1272/2008 (CLP)	Carc. 2, H351 Acute Tox. 4, H332 STOT RE 2, H373
	CAS content %	101-68-8 1-<10
SECTION 1: Identification of the substance/mixture and of the company/undertaking	Registration number (REACH) Index EINECS, ELINCS, NLP	01-2119457014-47-XXXX 615-005-00-9 202-966-0
according to Regulation (EC) No 1907/2006, Annex II	4,4'-methylenediphenyl diisocyanate	
Safety data sheet	content % Classification according to Regulation (EC) 1272/2008 (CLP)	1-<10 Eye Irrit. 2, H319
Valid from: 06.02.2017 PDF print date: 06.02.2017 KNAPP PM+ KLEBER GLUE COLLA	EINECS, ELINCS, NLP CAS	203-572-1 108-32-7
	Index	607-194-00-1
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 06.02.2017 / 0006 Replacing version dated / version: 24.07.2015 / 0005	Propylene carbonate Registration number (REACH)	01-2119537232-48-XXXX



<form></form>	(B) Page 2 of 9 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II		ry diamine/mol creatinine	in urine		nformation		
<form></form>		(Isocyanate, post task)		nediisocvanate, isom				
<form></form>	PDF print date: 06.02.2017	WEL-TWA: 0,02 mg	/m3 (Isocyanates, N	/EL-STEL: 0,07 mg		-		
		Monitoring procedures	s:		Othersia		0	
				in urine				
<form></form>	SECTION 5. Threinghning measures	GB Chemical Nam	e 2,2'-methylene	diphenyl diisocyanate)			%:0,1-
<form></form>					/m3 (Isocya	anates,		<1
<form></form>	CO2	Monitoring procedures	s:		Other in	oformation	n: Sen	
<form></form>	Water jet spray	(Isocyanate, post task)					_
		9						
	In case of fire the following can develop:	10 mg/m3 (total inhala	ble dust)	EL-31EL				
<form></form>	Oxides of nitrogen	BMGV:			Other in	nformation	ı:	2 · · ·
	Hydrocyanic acid (hydrogen cyanide)							
<form> In cardior and/or analysis, control begins of the state of the control begins of the control begins</form>	Danger of bursting (explosion) when heated	2,4 mg/m3 (resp. dust)					
<text><text><text><text></text></text></text></text>	In case of fire and/or explosion do not breathe fumes.	BMGV:			Other in	nformation	1:	
<text></text>	According to size of fire Full protection, if necessary.	GB WEL-TWA = Wor	kplace Exposure Limit - Lo	ong-term exposure lir	nit (8-hour	TWA (= tir	ne weighte	d
		STEL = Workplace Ex	posure Limit - Short-term	exposure limit (15-mi	nute refere	nce perio	d). BMGV	
	SECTION 6: Accidental release measures	Germany) Other info skin. Carc = Capable	rmation: Sen = Capable of of causing cancer and/or h	causing occupationation	al asthma. S age.	Sk = Can I	be absorbe	0
	6.1 Personal precautions, protective equipment and emergency procedures		t for this substance is repe	ealed through the TR	GS 900 (Ge	ermany) o	f January 2	006 with
Artic of application Exposing on the property of the p	Ensure sufficient supply of air.	Propylene carbonate						
Breache desig of this public design of the section section of the section of the section of the section	6.2 Environmental precautions		Exposure route /				Unit	Note
memory distance youthom memory distanc	Resolve leaks if this possible without risk.		Environment -		-	9	mg/l	
B. Methods and material for containment and cleaning up Solution of advocation from the lead of advocation to Section 3. Description of the packing dum. Image: Section 3. Image: Section 3. Image: Section 3. Description of the packing dum. Image: Section 3. Image: Section 3. Image: Section 3. Consumer Section 3. Image: Section 3. Image: Section 3. Image: Section 3. Consumer Section 3. Section 3. Image: Section 3. Image: Section 3. Consumer Section 3. Section 3. Image: Section 3. Image: Section 3. Consumer Section 3. Section 3. Image: Section 3. Image: Section 3. Consumer Function 3. Section 3. Image: Section 3. Image: Section 3. Consumer Function 3. Section 3. Image: Section 3. Image: Section 3. Consumer Function 3. Section 3. Image: Section 3. Image: Section 3. Consumer Function 3. Section 3. Image: Section 3. Image: Section 3. Consumer Function 3. Image: Section 3. Image: Section 3. <td< th=""><th>Prevent from entering drainage system.</th><th></th><th>(intermittent) release</th><th></th><th>DNEO</th><th>0.00</th><th></th><th></th></td<>	Prevent from entering drainage system.		(intermittent) release		DNEO	0.00		
Bit of according to Section 13. Advertex of according to Section 13. Bit of according to Section 13. Advertex of according to Section 13. Adverex of according to Section 13. Advertex of accor	6.3 Methods and material for containment and cleaning up		marine				-	
Keep modil. Date and data point of the model of all model in the solution products of the model in the solution products of the model in the solution of more and all operation of the model in the solution of more and all operation of the model in the solution of more and all operation of the model in the solution of more and all operation of the model in the solution of more and all operation of the model in the solution of the more and all operation of the model in the solution of the model in the solution of the more and all operation of the model in the solution of the more and all operation of the model in the solution of the more and all operation of the model in themodel in the model in the model in the model in the mode	dispose of according to Section 13.		sediment, marine		PNEC	3	-	
According protection to order sections Terms Section 12: Section 2: and order disposal instructions are selection 13: Section 2: and order disposal instructions are selection 13: Section 2: and order disposal instructions are selection 13: Section 2: and order disposal instructions are selection 13: Section 2: and order disposal instructions are selection 13: Section 2: and order disposal instructions are selection 13: Section 2: and order disposal instructions are selection 13: Section 2: and order disposal instructions are selection 2: and order disposal instructions are selection 13: Section 2: and order disposal instructions are selection 13: Section 2: and order disposal instructions are selection 2: and order disposal instructions are applicable. The section 2: and order disposal instructions are applicable. The section 2: and order disposal instructions are applicable. The section 2: and order disposal instructions are applicable. The section 2: and order disposal instructions are applicable. The section 2: and order disposal instructions are applicable. The section 2: and order disposal instructions are applicable. The section 2: and order disposal instructions are applicable. The section 2: and order disposal instructins are applicable. The section 2: and order disposal instructions	Keep moist.		freshwater					
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Decention of a constant of your in this section, relevant information can also be found in section 8 and 6.1. Consumer Human - rimbition DNEL 25 mg/kg Consumer Human - rimbition Consumer Human - rimbition DNEL 42 mg/kg DNEL 42 DNEL 42 <th></th> <th></th> <th>sewage treatment</th> <th></th> <th>TNEO</th> <th></th> <th>mg/i</th> <th></th>			sewage treatment		TNEO		mg/i	
The creations in gradie handling control in the processing machine necessary.	SECTION 7: Handling and storage		Human - oral	systemic effects				
T.1. General recommendations Ensure good version total affects total affects And inhibition diversion total affects total affects Note of the vapours. Number of the vapours. Note or the variable measures of the function and or the processing machine necessary. Long term, systemic affects Desc. T/R mg/m3 More contract with products of this type in case of allergies, asthma und chronic respiratory tract disorders. Diserved freedings according to stool-store, is produced and with an advanced or contract with products on table and instructions for use. Use working methods according to productive sugment before metring areas in which food is consumed. 7.2 Conditions for safe storage, including any incompatibilities (Resp out affacts from if C to 25°C. Store in a dryptice. 7.3 Specific end use(s) Adhesive Effect on angree in the store in angree in angree in the store of the store of angree in angree in angree in the store of angree in an				systemic effects				
Avoid inhibition of the sequences. Avoid of the sequences. Image: Avoid measures at the workstation or on the processing machine necessary. Avoid contact with hysits or shall. More contact with hysits or shall. Workers / Image: Avoid measures at the workstation or on the processing machine necessary. Avoid contact with hysits or shall. More contact with hysits or shall. Workers / Image: Avoid measures at the workstation or on the processing machine necessary. Avoid contact with hysits or shall. Contact with hysits or shall and instructions for use. Workers / Image: Avoid measures for the handing of chemicalismes are applicable. Beard hysits measures for the handing of chemicalismes are applicable. More contaminated conting and protechine sequences. Advement of the sequences. Advement of the sequences. Brand baseline of the sequences. Note the state state at at and of work. Advement of the sequences. Advement of the sequences. Advement of the sequences. Brand baseline of the sequences. Note the sequences. Advement of the sequences. Advement of the sequences. Advement of the sequences. Store product codes of only in original packing. More contact with and sequences. Advement of the sequences. Advement of the sequences. Advement of the sequences. Store product codes of only in original packing. More contact with a seque				local effects			-	
No contact with products of this type in case of allergies, asthma und chronic respiratory tract disorders. Understand, and instructions on label and instructions for use. Use working membranes in prohabited in work-nom. Description 0.001	If applicable, suction measures at the workstation or on the processing machine necessary.			systemic effects			-	
Observe directions on table and instructions for use. Under the match operating instructions. Descriptions on table and instructions for use. Descriptions on table and instructions. Descriptions	No contact with products of this type in case of allergies, asthma und chronic respiratory tract disorders.	Workers /	Human - dermal	Long term,	DNEL	50	mg/kg	
T.1.2 Notes on general hygiene measures at the workplace General hygiene measures for the handing of chemicals are applicable. And before breaks and at end of work. General hygiene measures for the handing of chemicals are applicable. Wash hands before breaks and at end of work. See yout of access to unauthorised individuals. Note Area of application Erroronment - Environment - Compartment PNEC 1 mgl Area of application Erroronment - restrict and only in original packing. PNEC 1 mgl Store product closed and only in original packing. PNEC 1 mgl Note Store product closed and only in original packing. PNEC 1 mgl Note Store in adry place. PNEC 1 mgl Note Store in adry place. PNEC 1 mgl Note Bit Control parameters Environment - sevage treatment plant PNEC 1 mgl Note Well-TWA: NO.02 Mgl isocyanates Mgl isocyanates Mgl isocyanates Mgl isocyanates Mgl isocyanates Mgl isocyanates Consumer Human - inhalation isocyanate groups in air using 2(1-methoxypherylpiperazine coaded isocyanates in air - Laboratory method using sampling	Observe directions on label and instructions for use.	Workers /	Human - inhalation	Long term,	DNEL	20	mg/m3	
Wash handing before breaks and at end of work. 4.4-methylenediphenyl diisocynate 4.4-methylenediphenyl diisocynate Keep avay from bod, dirik kan animal teedingstuffs. Remove contaminated clothing and protective equipment before entering areas in which food is consumed. A.4-methylenediphenyl diisocynate PNEC 1 mgl X.2 Conditions for safe storage, including any incompatibilities Feryionment - PNEC 1 mgl Keep pout cloced and only in original packing. Store in adity labe. PNEC 1 mgl Store in adity labe. A.5-methylenediphenyl discognate PNEC 1 mgl Store in adity labe. PNEC 1 mgl . Store in adity labe. PNEC 1 mgl . Athesive Environment - PNEC 1 mgl . Athesive Environment - PNEC 1 mgl . Well-TVK: 0.02 mg/m3 (lsocynates, mdl Mellowares, spradic (intermitent) release Consumer Human - inhalation Short term, systemic effects DNEL 25 mg/kg Mellowares, spradic (intermitent) releases . .	7.1.2 Notes on general hygiene measures at the workplace	omployeee		loodi onoolo				
Carbonization for safe storage, including any incompatibilities Construction of the set of the se	Wash hands before breaks and at end of work. Keep away from food, drink and animal feedingstuffs.		Exposure route /				Unit	Note
Areage out of address to unautivised: influendations. Image: Construction of the submet of the s	7.2 Conditions for safe storage, including any incompatibilities		compartment	health	-			
Keep protected from direct sunlight and temperatures over 50°C. Imaine PNEC 1 mg/kg Convolution and typiace. 7.3 Specific end use(s) Environment - soil PNEC 1 mg/kg Athesive Environment - soil PNEC 1 mg/kg BL Control parameters Environment - soil PNEC 1 mg/kg Consumer Human - demail Short term, systemic effects PNEC 1 mg/kg WEL-TWA: 0.02 mg/m3 (lsocyanates, int (as - KOC)) int (as - KOC) Intel (as - KOC) Intel (as - KOC) DEL 2 mg/kg Monitoring procedures: ISO 16702 (Workplace air quality - determination of total socyanates in air - Laboratory method using sampling either onto 2-(1 - methoxyphenylpiperazine cand elges amanaysis using high performance liquid chromatography) - 1999 - Uproject ECUENTENTKOUROU202-16 card + 74 (2004) 2 Consumer Human - inhalation Local effects DEL 0.02 mg/m3 Consumer Human - dermail Systemic effects DEL 0.02 mg/m3 2 Consumer Human - inhalation Local effects DEL 0.02 mg/m3 2 Consumer Human - inhalation L	Not to be stored in gangways or stair wells.		freshwater				-	
Store in a dry place. 7.3 Specific end use(s) Adhesive Environment - sewage treatment plant PNEC 1 mg/l Build of the sewage treatment plant PNEC 1 mg/l Build of the sewage treatment plant PNEC 1 mg/l Build of the sewage treatment plant PNEC 1 mg/l Build of the sewage treatment plant PNEC 1 mg/l Build of the sewage treatment plant PNEC 1 mg/l Build of the sewage treatment plant PNEC 1 mg/l Build of the sewage treatment plant PNEC 1 mg/l Build of the sewage treatment plant PNEC 1 mg/l Build of the sewage treatment sewage treatment sewage treatment sewage treatment sewage treatment plant PNEC 10 mg/l Build of the sewage treatment	Keep protected from direct sunlight and temperatures over 50°C.		marine				mg/kg	
Adhesive Data Data Data Data Data SECTION 8: Exposure controls/personal protection Bint Bint<!--</th--><th>Store in a dry place.</th><th></th><th></th><th></th><th>PNEC</th><th>1</th><th></th><th></th>	Store in a dry place.				PNEC	1		
SECTION 3: Exposure controls/personal protection water, sporadic (intermittent) release water, sporadic (intermittent)	Adhesive		plant		PNEC	10	mg/l	
Systemic effects	SECTION 8: Exposure controls/personal protection		water, sporadic (intermittent) release				-	
Chemical Name 4,4'-methylenediphenyl diisocyanate Content %:1-<10	8.1 Control parameters			systemic effects			bw/d	
WEL-TWA: 0.02 mg/m3 (isocyanates, all (as -NCO)) WEL-STEL: 0.07 mg/m3 (isocyanates, all (as -NCO)) Systemic effects bw/d [*] Monitoring procedures: ISO 16702 (Workplace air quality – determination of total isocyanate groups in air using 2-(1-methoxyphenylpiperazine and - liquid chromatography) - 2001 MOHS 25/3 (Organic isocyanates in air – Laboratory method using sampling either onto 2-(1- methoxyphenylpiperazine coated glass fibre filters followed by solvent desorption or into impigers and analysis using high performance liquid chromatography) - 1999 - - EU project BC/CENVENTR/000/2002-16 card 7-4 (2004) Consumer Human - inhalation using either onto 2-(1- methoxyphenylpiperazine coated glass fibre filters followed by solvent desorption or into impigers and analysis using high performance liquid chromatography) - 1999 - - EU project BC/CENVENTR/000/2002-16 card 7-4 (2004) Consumer Human - inhalation using either onto 2-(1 - methoxyphenylpiperazine coated glass fibre filters followed by solvent desorption or into impigers and analysis using high performance liquid chromatography) - 1999 - - EU project BC/CENVENTR/000/2002-16 card 7-4 (2004) ONEL ONEL O.02 mg/m3 BMGV: 1 µmol urinary diamine/mol creatinine in urine (Isocyanate, post task) Ortext of the main - dermal Short term, systemic effects DNEL 0,02 mg/m3 @ Context employees Human - inhalation Short term, systemic effects DNEL 0,1 mg/m3 @ Content employees Human - inhalation				systemic effects			-	
Monitoring procedures: ISO 16702 (Workplace air quality – determination of total isocyanate groups in air using 2-(1-methoxyphenylpiperazine and - liquid chromatography) - 2001 Intervention of total storatory method using sampling either onto 2-(1-methoxyphenylpiperazine and analysis using high performance liquid chromatography) - 2001 Consumer Human - inhalation Short term, local effects DNEL 0,02 mg/m3 Monitoring procedures: . <th>WEL-TWA: 0,02 mg/m3 (Isocyanates, WEL-STEL: 0,07 mg/m3 (Isocyanates,</th> <th></th> <th></th> <th>systemic effects Short term,</th> <th></th> <th></th> <th>bw/d mg/cm</th> <th></th>	WEL-TWA: 0,02 mg/m3 (Isocyanates, WEL-STEL: 0,07 mg/m3 (Isocyanates,			systemic effects Short term,			bw/d mg/cm	
MDHS 25/3 (Organic isocyanates in air – Laboratory method using sampling either onto 2-(1- methoxyphenyliperzine coated glass fibre filters followed by solvent desorption or into impigers and analysis using high performance liquid chromatography) - 1999 - Under the therm is therm is the therm is the therm is the therm is	Monitoring procedures: ISO 16702 (Workplace air quality – determination of total isocyanate groups in air using 2-(1-methoxyphenylpiperazine and	Consumer	Human - inhalation	Short term,	DNEL	0,05	-	
Consumer Human - inhalation Long term, local effects DNEL 0,02 mg/m3 BMGV: 1 µmol urinary diamine/mol creatinine in urine Other information: Sen (Isocyanate, post task) Other information: Sen (Isocyanates, all (as -NCO)) Human - inhalation Long term, local effects DNEL 0,02 mg/m3 @B Chemical Name o-(p-isocyanatobenzyl)phenylisocyanates, WEL-TWA: 0,02 mg/m3 (Isocyanates, WEL-STEL: 0,07 mg/m3 (Isocyanates,	MDHS 25/3 (Organic isocyanates in air – Laboratory method using	Consumer	Human - inhalation	Long term,	DNEL		mg/m3	
BMGV: 1 µmol urinary diamine/mol creatinine in urine Other information: Sen (Isocyanate, post task) Workers / Human - dermal Short term, systemic effects DNEL 50 mg/kg bw/d @BMGV: 1 µmol urinary diamine/mol creatinine in urine Other information: Sen (Isocyanate, post task) Other information: Sen (Isocyanate, all (as -NCO)) Human - inhalation Short term, systemic effects DNEL 0,1 mg/kg bw/d @BMGV: 1 µmol urinary diamine/mol creatinine in urine Other information: Sen (Isocyanate, all (as -NCO)) Workers / Human - inhalation Short term, systemic effects DNEL 0,1 mg/rcm 2 @WEL-TWA: 0,02 mg/m3 (Isocyanates, WEL-STEL: 0,07 mg/m3 (Isocyanates, systemic stress) Workers / Human - inhalation Short term, Short term, Bort term, Short term, Bort term, Bo	fibre filters followed by solvent desorption or into impingers and			Long term, local effects		0,02 5	-	
Chemical Name o-(p-isocyanates, post task) (isocyanates, all (as -NCO)) Workers / employees Human - inhalation Short term, systemic effects DNEL 0,1 mg/m3 Workers / employees Content Workers / employees Human - inhalation Short term, systemic effects DNEL 0,1 mg/m3 Well-TWA: 0.02 mg/m3 (isocyanates, bit of term, Well-STEL: 0.07 mg/m3 (isocyanates, mg/m3 Workers / employees Human - inhalation Short term, local effects DNEL 28.7 mg/m3	- EU project BČ/CĚN/ENTR/000/2002-16 card 7-4 (2004)	employees		Short term, systemic effects		50	bw/d	
weight weight<	(Isocyanate, post task) (Isocyanates, all (as -NCO))	employees		systemic effects			-	
	%:1-<10	employees		local effects			2	
							U	



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Valid from: 06.02.2017	, ,					
PDF print date: 06.02.						
KNAPP PM+ KLEBER	GLUE COLLA					
Workers /	Human - inhalation	Long term,	DNEL	0,05	mg/m3	
employees	numan - mnaiation	systemic effects	DINEL	0,00	mg/mo	
Workers /	Human - inhalation	Long term,	DNEL	0,05	mg/m3	
employees		local effects		-,		
. (n isservenstekens	u) when will a cover sta					
o-(p-isocyanatobenzy Area of application	Exposure route /	Effect on	Descri	Valu	Unit	
Alea of application	Environmental	health	ptor	e	Unit	
	compartment	neutin	pion	, c		
	Environment -		PNEC	1	mg/l	
	freshwater				g.i	
	Environment -		PNEC	0,1	mg/l	
	marine				-	
	Environment - soil		PNEC	1	mg/kg	
					dry	
					weight	
	Environment -		PNEC	1	mg/l	
	sewage treatment					
	plant Human - dermal	Long term,	DNEL	0	mg/kg	
	numan - uermai	local effects	DINEL		ilig/kg	
Consumer	Human - inhalation	Long term,	DNEL	0.02	mg/m3	
		local effects		5		
Consumer	Human - dermal	Short term,	DNEL	25	mg/kg	
		systemic effects			body	
					weight/	
-					day	
Consumer	Human - inhalation	Short term,	DNEL	0,05	mg/m3	
Consumer	Human - oral	systemic effects	DNEL	20		
Consumer	Human - orai	Short term, systemic effects	DNEL	20	mg/kg body	
		systemic enects			weight/	
					day	
Consumer	Human - dermal	Short term.	DNEL	17.2	mg/cm	
		local effects		,	2	
Consumer	Human - dermal	Short term,	DNEL	0,05	mg/m3	
-		local effects				
Consumer	Human - dermal	Long term,	DNEL	0	mg/kg	
0	However, 12, 12	systemic effects	DVS			
Consumer	Human - inhalation	Long term,	DNEL	0,02	mg/m3	
Consumer	Human - oral	systemic effects Long term,	DNEL	5	mg/kg	-
Consumer	numan - Orai	systemic effects	DINEL		тту/ку	
Workers /	Human - dermal	Short term,	DNEL	50	mg/kg	-
employees		systemic effects	DITEL		bw/day	
Workers /	Human - inhalation	Short term,	DNEL	0,1	mg/m3	
employees		systemic effects			5	
Workers /	Human - dermal	Short term,	DNEL	28,7	mg/cm	
employees		local effects			2	
Workers /	Human - inhalation	Short term,	DNEL	0,1	mg/m3	
employees	Liver en alemente?	local effects	DNEL			
Workers /	Human - dermal	Long term,	DNEL	0	mg/kg	
employees Workers /	Human - inhalation	systemic effects Long term,	DNEL	0.05	mg/m3	-
employees	numan - mnaiation	systemic effects	DINEL	0,05	mg/ma	
Workers /	Human - dermal	Long term,	DNEL	0	mg/kg	-
employees		local effects	DINCL	ĭ	mgmg	
Workers /	Human - inhalation	Long term,	DNEL	0,05	mg/m3	
employees		local effects		-,		

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Area of application	Exposure route /	Effect on	Descri	Valu	Unit	Note
	Environmental	health	ptor	e		
	compartment					
	Environment -		PNEC	1	mg/l	
	freshwater				-	
	Environment -		PNEC	0,1	mg/l	
	marine				-	
	Environment -		PNEC	10	mg/l	
	water, sporadic					
	(intermittent) release					
	Environment -		PNEC	1	mg/l	
	sewage treatment				-	
	plant					
	Environment - soil		PNEC	1	mg/kg	
Consumer	Human - oral	Short term,	DNEL	20	mg/kg	
		local effects			bw/d	
Consumer	Human - inhalation	Short term,	DNEL	0,05	mg/m3	
		local effects			-	
Consumer	Human - inhalation	Short term,	DNEL	0,05	mg/m3	
		systemic effects			Ū	
Consumer	Human - inhalation	Long term,	DNEL	0,02	mg/m3	
		local effects		5	Ū	
Consumer	Human - inhalation	Long term,	DNEL	0,02	mg/m3	
		systemic effects		5	Ū	
Consumer	Human - dermal	Short term,	DNEL	17,2	mg/cm	
		local effects			2	
Consumer	Human - dermal	Short term,	DNEL	25	mg/kg	
		systemic effects			bw/d	
Workers /	Human - inhalation	Short term,	DNEL	0,1	mg/m3	
employees		local effects			-	
Workers /	Human - inhalation	Short term,	DNEL	0,1	mg/m3	
employees		systemic effects			-	
Workers /	Human - inhalation	Long term,	DNEL	0,05	mg/m3	
employees		local effects			-	
Workers /	Human - inhalation	Long term,	DNEL	0,05	mg/m3	
employees		systemic effects			-	
Workers /	Human - dermal	Short term,	DNEL	28,7	mg/cm	
employees		local effects			2	
Workers /	Human - dermal	Short term,	DNEL	50	mg/kg	
employees		systemic effects			bw/d	

2,2'-methylenediphe	enyl diisocyanate					
Area of application	Exposure route / Environmental compartment	Effect on health	Descri ptor	Valu e	Unit	Note

	Environment -		PNEC	1	mg/l	
	freshwater					
	Environment -		PNEC	0,1	mg/l	
	marine					
	Environment - soil		PNEC	1	mg/kg	
	Environment -		PNEC	1	mg/l	
	sewage treatment					
	plant					
Consumer	Human - dermal	Short term,	DNEL	25	mg/kg	
		systemic effects			body	
					weight/	
					day	
Consumer	Human - inhalation	Long term,	DNEL	0,05	mg/kg	
		systemic effects				
Consumer	Human - oral	Short term,	DNEL	20	mg/kg	
		systemic effects			body	
					weight/	
					day	
Consumer	Human - dermal	Short term,	DNEL	17,2	mg/cm	
		local effects			2	
Consumer	Human - inhalation	Short term,	DNEL	0,05	mg/m3	
		local effects				
Consumer	Human - inhalation	Long term,	DNEL	0,02	mg/m3	
		systemic effects		5		
Consumer	Human - inhalation	Long term,	DNEL	0,02	mg/m3	
		local effects		5		
Workers /	Human - dermal	Short term,	DNEL	50	mg/kg	
employees		systemic effects			bw/day	
Workers /	Human - inhalation	Short term,	DNEL	0,1	mg/m3	
employees		systemic effects				
Workers /	Human - dermal	Short term,	DNEL	28,7	mg/cm	
employees		local effects			2	
Workers /	Human - inhalation	Short term,	DNEL	0,1	mg/m3	
employees		local effects				
Workers /	Human - dermal	Long term,	DNEL	0	mg/kg	
employees		systemic effects				
Workers /	Human - inhalation	Long term,	DNEL	0,05	mg/m3	
employees		systemic effects				
Workers /	Human - dermal	Long term,	DNEL	0	mg/kg	
employees		local effects				
Workers /	Human - inhalation	Long term,	DNEL	0,05	mg/m3	
employees		local effects				

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction. If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Applies only in mathematical permission explosing values are values are values. Solitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques. These are specified by e.g. EN 14042. EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of

exposure to chemical and biological agents".

8.2.2 Individual protection measures, such as personal protective equipment General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and at end of work.

Reep away from food, drink and animal feedingstuffs. Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection: Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection: Chemical resistant protective gloves (EN 374).

Recommended

Protective nitrile gloves (EN 374) Minimum layer thickness in mm:

>= 0,35 Permeation time (penetration time) in minutes: >= 480

>= 480 The breakthrough times determined in accordance with EN 374 Part 3 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time. Protective hand cream recommended.

Skin protection - Other: Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:

Normally not necessary. If OES or MEL is exceeded.

Piter A2 P2 (EN 14387), code colour brown, white Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed. In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications. Final selection of glove material must be made taking the breakthrough times, permeation rates and

degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer. In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested

before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at pro-

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
Physical state:
Colour:
Pastelike, Liquid
According to specification Odour: Odour threshold: pH-value: Melting point/freezing point: Initial boiling point and boiling range: Flash point:

Characteristic Not determined na Not determined Not determined Not determined



Safety data sheet accord Revision date / version: (06.02.2017	/ 0006		o, Annex II			corrosion/irritation:					(Acute Dermal Irritation/Corrosio	
Replacing version dated Valid from: 06.02.2017 PDF print date: 06.02.20	/ version: 24	4.07.2015 /0	0005				Serious eye damage/irritation:				Rabbit	n) OECD 405 (Acute Eye	Irritant
KNAPP PM+ KLEBER G		A					_					Irritation/Corrosio n)	
Evaporation rate: Flammability (solid, gas)	:		n.a n.a				Respiratory or skin sensitisation:				Human being	/	Not sensitizisin
Lower explosive limit: Upper explosive limit:				t determined t determined			Germ cell					OECD 471	g Negative
Vapour pressure: Vapour density (air = 1):			No	t determined			mutagenicity:					(Bacterial Reverse	rioguaro
Density:				t determined ,52 g/cm3 (20	°C)							Mutation Test)	
Bulk density: Solubility(ies):			n.a No	ı. t determined			Germ cell mutagenicity:					OECD 474 (Mammalian	Negative
Water solubility: Partition coefficient (n-oc	top of (water)	\.	Ins	oluble t determined								Erythrocyte Micronucleus	
Auto-ignition temperature	e:).	No	t determined								Test)	
Decomposition temperat Viscosity:	ure:			t determined t determined			Germ cell mutagenicity:					OECD 482 (Gen. Tox	Negative
Explosive properties: Oxidising properties:			Pro No	oduct is not ex	plosive.							DNA Damage and Repair,	
9.2 Other informat	tion											Unscheduled	
Miscibility: Fat solubility / solvent:				t determined t determined								DNA Synthesis in Mammalian	
Conductivity:			No	t determined			Carcinogenicity:				Mouse	Cells In Vitro) OECD 451	Negative
Surface tension: Solvents content:				t determined t determined								(Carcinogenicity Studies)	
	SECTI	ON 10: S	Stabilit	y and rea	activity		Reproductive toxicity:	NOAE	5000	mg/k	Rat	OECD 414	No
								L		g		(Prenatal Developmental	indications of such an
10.1 Reactivity							Penroductivo tovicitus	NOAE	1000	mall	Rat	Toxicity Study) OECD 414	effect.
reacts with water	hili4						Reproductive toxicity:	L	1000	mg/k g	rvdl	(Prenatal	Negative
10.2 Chemical sta Stable with proper storage		lling.										Developmental Toxicity Study)	
10.3 Possibility of	hazardo		ons				Specific target organ					, 2.30,,	No
Exothermic reaction post Alcohols	sible with:						toxicity - single exposure (STOT-SE):						
Amines Bases							Specific target organ toxicity - repeated						No
Acids							exposure (STOT-RE): Aspiration hazard:	-					No
Water Developement of:							Symptoms:						breathing
Carbon dioxide CO2 formation in closed	tanks cause	es pressure tr	o rise										difficulties, headaches,
Pressure increase will re	sult in dang												gastrointes tinal
10.4 Conditions to See also section 7.	o avoid												disturbance
Protect from humidity. Polymerisation due to high	ab boot is a	ossible											s, dizziness,
T > ~ 260°C							Specific target organ	NOEL	>5000	mg/k		OECD 408	nausea
10.5 Incompatible See also section 7.	material	S					toxicity - repeated		20000	g		(Repeated Dose	
Acids							exposure (STOT-RE), oral:					90-Day Oral Toxicity Study in	
Acids Bases							oral:	NOEC	100	ma/m		Toxicity Study in Rodents)	Dust Mist
Acids Bases Amines Alcohols							oral: Specific target organ toxicity - repeated	NOEC	100	mg/m 3		Toxicity Study in Rodents) OECD 413 (Subchronic	Dust, Mist
Acids Bases Amines	ecompos	sition proc	ducts				oral: Specific target organ	NOEC	100			Toxicity Study in Rodents) OECD 413 (Subchronic Inhalation Toxicity - 90-Day	Dust, Mist
Acids Bases Amines Alcohols Water 10.6 Hazardous de See also section 5.2		•	ducts				oral: Specific target organ toxicity - repeated exposure (STOT-RE),	NOEC	100			Toxicity Study in Rodents) OECD 413 (Subchronic Inhalation	Dust, Mist
Acids Bases Amines Alcohols Water 10.6 Hazardous de See also section 5.2 No decomposition when	used as dire	ected.		nical info	ormation		oral: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: 4,4'-methylenediphenyi	I diisocyana	ate	3	Organis	Toxicity Study in Rodents) OECD 413 (Subchronic Inhalation Toxicity - 90-Day Study)	
Acids Bases Amines Alcohols Water 10.6 Hazardous de See also section 5.2 No decomposition when	used as dire	ected.		gical info	ormation		oral: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: 4,4'-methylenedipheny Toxicity / effect	I diisocyana Endpo int	ate Value	3 Unit	Organis M Pot	Toxicity Study in Rodents) OECD 413 (Subchronic Inhalation Toxicity - 90-Day	Dust, Mist
Acids Bases Amines Alcohols Water 10.6 Hazardous de See also section 5.2 No decomposition when	used as dire	ected. N 11: To	oxicolo	gical info	ormation		oral: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: 4,4'-methylenediphenyi Toxicity / effect Acute toxicity, by oral route:	I diisocyana Endpo int LD50	ate Value >2000	3 Unit mg/k g	m Rat	Toxicity Study in Rodents) OECD 413 (Subchronic Inhalation Toxicity - 90-Day Study) Test method	
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Acids Bases Amines Alcohols Water 10.6 Hazardous de See also section 5.2 No decomposition when S 11.1 Information c Possibly more informatic KNAPP PM+ KLEBER of Toxicity / effect Acute toxicity, by oral	used as dire ECTIO	ected. N 11: To logical eff effects, see s	fects Section 2.1	(classification).	Notes n.d.a.	oral: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: 4,4'-methylenediphenyi Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by oral route: Acute toxicity, by oral	I diisocyana Endpo int LD50	ate Value >2000	3 Unit mg/k g mg/k g	m Rat	Toxicity Study in Rodents) OECD 413 (Subchronic Inhalation Toxicity - 90-Day Study) Test method Regulation (EC) 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402	
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Acids Bases Amines Alcohols Water 10.6 Hazardous de See also section 5.2 No decomposition when S 11.1 Information c Possibly more informatic KNAPP PM+ KLEBER (Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by oral route: Acute toxicity, by oral amage/irritation: Serious eye damagenicity: Caronogenicity: Specific target organ toxicity - repeated exposure (STOT-RE): Aspiration hazard: Symptoms: Other information: Propylene carbonate Toxicity / effect	Endpo	ected. N 11: Tc logical effi effects, see : A Value >20	fects Section 2.1 Unit mg/l/ 4h	(classification Organis m). Test method	n.d.a. n.d.a. Vapours, calculated value n.d.a. n.d.a. n.d.a. n.d.a. n.d.a. n.d.a. n.d.a. n.d.a. n.d.a. n.d.a. n.d.a. Classificati on according to calculation procedure.	oral: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: 4,4'-methylenediphenyi Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by oral route: Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skrin corrosion/irritation: Skrin sensitisation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell mutagenicity:	I diisocyana Endpo int LD50 LD50 LD50 LD50	ate Value >2000 >2000 >9400 0,368	3 Unit mg/k g mg/k g mg/k g mg/l 4h	mRat Rat Rat Rat Rat Rabbit Rabbit Mouse Mouse	Toxicity Study in Rodents) OECD 413 (Subchronic Inhalation Toxicity - 90-Day Study) Test method Regulation (EC) 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 404 (Acute Sye Irritation/Corrosio n) OECD 404 (Acute Sye Irritation/Corrosio n) OECD 404 (Acute Sye Irritation/Corrosio n) OECD 404 (Acute Sye Irritation/Corrosio n) OECD 404 (Acute Sye Irritation/Corrosio n) OECD 405 (Skin Sensitisation - Local Lymph Node Assay) OECD 405 (Skin Sensitisation) OECD 471 (Bacterial Reverse Mutation Test) OECD 453 (Combined Chronic Toxicity/Carcinog	Notes Notes Aerosol Irritant, Analogous conclusion Yes (skin contaci), Analogous conclusion Yes (skin contaci), Analogous conclusion Yes (inhalation and skin contact), Analogous conclusion Negative Negative, Analogous conclusion Negative Negative Analogous conclusion, Limited evidence
Acids Bases Amines Alcohols Water 10.6 Hazardous de See also section 5.2 No decomposition when S 11.1 Information c Possibly more informatic KNAPP PM+ KLEBER of Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by oral route: Acute toxicity, by dermal route: Acute toxicity, by dermal route: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye damage/irritation: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: Specific target organ toxicity - single exposure (STOT-RE): Specific target organ toxicity - repeated exposure (STOT-RE): Specific target organ toxicity - repeated exposure (STOT-RE): Specific target organ toxicity - repeated exposure (STOT-RE): Symptoms: Other information:	Endpo int EEndpo	ected. N 11: Tc logical effi effects, see : A Value >20 Value Value >30 Value >5000	section 2.1	Corganis M Organis M Organis M Rat). Test method	n.d.a. n.d.a. Vapours, calculated value n.d.a. n.d.a. n.d.a. n.d.a. n.d.a. n.d.a. n.d.a. n.d.a. n.d.a. n.d.a. n.d.a. Classificati on according to calculation procedure.	oral: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: 4,4'-methylenediphenyi Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by oral route: Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skrin corrosion/irritation: Skrin sensitisation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell mutagenicity:	I diisocyana Endpo int LD50 LD50 LD50 LD50	ate Value >2000 >2000 >9400 0,368	3 Unit mg/k g mg/k g mg/k g mg/l 4h	mRat Rat Rat Rat Rat Rabbit Rabbit Mouse Mouse	Toxicity Study in Rodents) OECD 413 (Subchronic Inhalation Toxicity - 90-Day Study) Test method Regulation (EC) 440/2008 B-1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 403 (Acute Eye Irritation/Corrosio n) OECD 404 (Acute Eye Irritation/Corrosio n) OECD 429 (Skin Sensitisation - Local Lymph Node Assay) OECD 471 (Bacterial Reverse Mutation Test) OECD 453 (Combined Chronic	Notes Aerosol Irritant, Analogous conclusion Irritant, Analogous conclusion Yes (skin conclusion Yes (inhalation and skin conclusion Yes (inhalation and skin conclusion Negative, Analogous conclusion Negative, Analogous conclusion
Acids Bases Amines Alcohols Water 10.6 Hazardous de See also section 5.2 No decomposition when 11.1 Information c Possibly more informatic Contect 11.1 Information c Possibly more informatic Contect 11.1 Information c Possibly more informatic Contect 11.1 Information c Possibly more informatic Contect 11.1 Information c Possibly more informatic 11.1 Information c Propylene carbonate 11.1 Information c 11.1 Information c 11.1	estimation in the second secon	Value	fects Section 2.1 Unit mg/l/ 4h	(classification Organis m Organis m). Test method	n.d.a. n.d.a. Vapours, calculated value n.d.a. n.d.a. n.d.a. n.d.a. n.d.a. n.d.a. n.d.a. n.d.a. n.d.a. n.d.a. n.d.a. Classificati on according to calculation procedure.	oral: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: 4,4'-methylenediphenyi Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by oral route: Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skrin corrosion/irritation: Skrin sensitisation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell mutagenicity:	I diisocyana Endpo int LD50 LD50 LD50 LD50	ate Value >2000 >2000 >9400 0,368	3 Unit mg/k g mg/k g mg/k g mg/l 4h	mRat Rat Rat Rat Rat Rabbit Rabbit Mouse Mouse	Toxicity Study in Rodents) OECD 413 (Subchronic Inhalation Toxicity - 90-Day Study) Test method Regulation (EC) 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 404 (Acute Sye Irritation/Corrosio n) OECD 404 (Acute Sye Irritation/Corrosio n) OECD 404 (Acute Sye Irritation/Corrosio n) OECD 404 (Acute Sye Irritation/Corrosio n) OECD 404 (Acute Sye Irritation/Corrosio n) OECD 405 (Skin Sensitisation - Local Lymph Node Assay) OECD 405 (Skin Sensitisation) OECD 471 (Bacterial Reverse Mutation Test) OECD 453 (Combined Chronic Toxicity/Carcinog	Notes Notes Aerosol Irritant, Analogous conclusion Irritant, Analogous conclusion Irritant, Analogous conclusion Yes (skin contact), Analogous conclusion Negative, Analogous conclusion Negative, Analogous conclusion Analogous conclusion Analogous conclusion Analogous conclusion



B) Page 5 of 9 Safety data sheet accord Revision date / version: (Replacing version dated Valid free: 06.0047	06.02.2017	/ 0006		6, Annex II			Reproductive toxicity:	NOAE L	12	mg/m 3	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Negative, Aerosol
Valid from: 06.02.2017 PDF print date: 06.02.20 KNAPP PM+ KLEBER G	SLUE COLL		1				Reproductive toxicity (Developmental toxicity):		4		Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Negative
Reproductive toxicity:	NOAE L	4	mg/m 3	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Negative, Analogous conclusion	Reproductive toxicity (Effects on fertility):				Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Negative
Symptoms:						respiratory distress, coughing, mucous	Specific target organ toxicity - single exposure (STOT-SE):						Irritation the respirato tract
Specific target organ toxicity - single						membrane irritation Irritation of the	Specific target organ toxicity - repeated exposure (STOT-RE):	NOEC	0,2	mg/k g		OECD 453 (Combined Chronic Toxicity/Carcinog	
exposure (STOT-SE), inhalative:						respiratory tract	Aspiration hazard:					enicity Studies)	No
Specific target organ toxicity - single exposure (STOT-SE), inhalative:						Irritation of the respiratory tract, Target organ(s): respiratory system	Symptoms:						fever, coughing headach nausea and vomiting. dizziness breathing difficultie
o-(p-isocyanatobenzyl) Toxicity / effect	phenylisoc Endpo	yanate Value	Unit	Organis	Test method	Notes							laryngeal oedema,
Acute toxicity, by oral route:	int LD50	>2000	mg/k g	m Rat	Regulation (EC) 440/2008 B.1 (ACUTE ORAL	Analogous conclusion							oedema o the lungs chemical pneumon
Acute toxicity, by dermal route:	LD50	>9400	mg/k g	Rabbit	TOXICITY) OECD 402 (Acute Dermal Toxicity)	Analogous conclusion							s (condition similar to pneumor
Acute toxicity, by inhalation: Skin corrosion/irritation:	LC50	0,387	mg/l/ 4h	Rat Rabbit	OECD 404 (Acute Dermal	Irritant, Analogous), abdomina pain, diarrhoea
					Irritation/Corrosio	conclusion	Specific target organ toxicity - single						Target organ(s):
Respiratory or skin sensitisation:				Mouse	ÓECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Sensitising (skin contact), Analogous	exposure (STOT-SE), inhalative:						respirator organs, May caus respirator
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	conclusion Yes (inhalation), Analogous	2,2'-methylenedipheny Toxicity / effect	Endpo	ate Value	Unit	Organis	Test method	irritation.
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse	conclusion Negative, Analogous conclusion	Acute toxicity, by oral route:	int LD50	>2000	mg/k g	m Rat	Regulation (EC) 440/2008 B.1 (ACUTE ORAL	Analogou conclusio
Carcinogenicity:					Mutation Test) OECD 453 (Combined Chronic	Analogous conclusion, Limited	Acute toxicity, by dermal route:	LD50	>9400	mg/k g	Rabbit	TOXICITY) OECD 402 (Acute Dermal Toxicity)	
					Toxicity/Carcinog enicity Studies)	evidence of a carcinogeni c effect.	Acute toxicity, by inhalation: Skin	LC50	>2,24	mg/l/ 1h	Rat Rabbit	OECD 403 (Acute Inhalation Toxicity) OECD 404	Mist Mild irrita
Reproductive toxicity:					OECD 414 (Prenatal Developmental Toxicity Study)	Negative	corrosion/irritation:				Rabbit	(Acute Dermal Irritation/Corrosio n)	Irritant
Symptoms:					TOXICITY Study)	asthmatic	damage/irritation:				Mouse	OECD 429 (Skin	
						symptoms, mucous membrane irritation	Respiratory or skin sensitisation:					Sensitisation - Local Lymph Node Assay)	Yes (skin contact)
Specific target organ toxicity - single exposure (STOT-SE), inhalative:						Target organ(s): respiratory tract,	Respiratory or skin sensitisation:				Guinea pig		Yes (inhalatio Analogo conclusi
						Irritant	Germ cell mutagenicity:				Salmonel la	OECD 471 (Bacterial	Negative Analogou
Diphenylmethanediiso Toxicity / effect	Endpo	omeres and h Value	omologue Unit	Organis	Test method	Notes					typhimuri um	Reverse Mutation Test)	conclusio
Acute toxicity, by oral route:	LD50	>10000	mg/k g mg/k	m Rat Rabbit	OECD 401 (Acute Oral Toxicity) OECD 402		Carcinogenicity:				Rat	OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies)	Limited evidence of a carcinoge c effect.,
dermal route:			g g	· CODOR	(Acute Dermal Toxicity)								Analogou conclusio
Acute toxicity, by inhalation:	LC50	0,49	mg/l/ 4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol, Does not conform with EU	Reproductive toxicity:	NOAE L	4	mg/m 3	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	No indicatior of such a effect.
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal	classificatio n. Irritant	Specific target organ toxicity - single exposure (STOT-SE): Aspiration hazard:						May cause respirato irritation. Not to be
Serious eye damage/irritation:				Rabbit	Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio	Mild irritant	Symptoms:						expected respirato distress, coughing mucous
Respiratory or skin				Guinea	n) OECD 406 (Skin	Sensitising							membrar
sensitisation:				pig	Sensitisation)	(skin contact)	Calcium carbonate						
Germ cell mutagenicity:					OECD 474 (Mammalian	Negative	Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Carcinogenicity:		1	mg/m	Rat	Erythrocyte Micronucleus Test) OECD 453	Positive	Acute toxicity, by oral route:	LD50	>2000	mg/k g	Rat	OECD 420 (Acute Oral toxicity - Fixe Dose Procedure)	
			3		(Combined Chronic Toxicity/Carcinog enicity Studies)		Acute toxicity, by dermal route:	LD50	>2000	mg/k g	Rat	OECD 402 (Acute Dermal Toxicity)	



B) Page 6 of 9 Safety data sheet acc	ording to Pear	ulation (EC) N	1007/200				Toxicity / effect	Endpoin t	Tim	Valu	Unit	Organism	Test	Notes
Safety data sheet acc Revision date / version	n: 06.02.2017	/ 0006		Jo, ANNEX II			12.1. Toxicity to	t LC50	e 96h	e >10	mg/l	Cyprinus	method 92/69/EC	
Replacing version dat Valid from: 06.02.201	7	4.07.2015 / 0	005				fish: 12.1. Toxicity to	EC50	48h	00 >10	mg/l	caprio Daphnia	OECD 202	
PDF print date: 06.02. KNAPP PM+ KLEBEF	.2017 R GLUE COLL				0505 400		daphnia:	2000	1011	00	g.	magna	(Daphnia sp. Acute Immobilisati	
Acute toxicity, by nhalation: Skin	LC50	>3	mg/l/ 4h	Rat Rabbit	OECD 403 (Acute Inhalation Toxicity) OECD 404	Not irritant	12.1. Toxicity to algae:	EC50	72h	>90 0	mg/l	Desmodesm us subspicatus	on Test) OECD 201 (Alga, Growth	
corrosion/irritation:				Kubbit	(Acute Dermal Irritation/Corrosio n)	Not initiatit	12.2.			83,5	%	Subspicatus	Inhibition Test) OECD 301	Readily
Serious eye Jamage/irritation: Respiratory or skin				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Not irritant, Mechanical irritation possible. No (skin	Persistence and degradability:			-87- 7			B (Ready Biodegradab ility - Co2 Evolution Test)	biodegra ble29d
ensitisation: Germ cell					in vitro	contact) Negative	12.3. Bioaccumulative	Log Pow		- 0,48			1630	Bioaccu ation is
nutagenicity: Carcinogenicity:						Negative, administere d as Ca-	potential:							unlikely (LogPov 1)., calculate
Reproductive toxicity:						lactate Negative, administere d as Ca-	12.5. Results of PBT and vPvB assessment							value No PBT substan No vPvB
Silica, amorphous						carbonate	Toxicity to	EC10	16h	256	mg/l	Pseudomon	DIN 38412	substan
Foxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes	bacteria: Other	AOX		19 0	%	as putida	T.8	Does no
Acute toxicity, by oral	LD50	>5000	mg/k	m Rat			information:							contain any
cute: cute toxicity, by ermal route:	LD50	>5000	g mg/k q	Rabbit										organic bound haloger
cute toxicity, by ermal route:	LD50	> 2000	mg/k g	Rat		References								which c contribu
cute toxicity, by lermal route:	LD50	>2000	mg/k g	Rat	OECD 402 (Acute Dermal Toxicity)									to the A value in waste
cute toxicity, by halation:	LC50	>0,691	mg/l/ 4h	Rat						1	1			water.
kin prrosion/irritation: kin	_			Rabbit Rabbit	OECD 404	Not irritant, References Not irritant	4,4'-methylenedip Toxicity / effect	henyl diisocy Endpoin	Tim	Valu	Unit	Organism	Test	Notes
kin prrosion/irritation:					(Acute Dermal Irritation/Corrosio n)		12.1. Toxicity to fish:	t LC50	e 96h	e >10 00	mg/l	Brachydanio rerio	method OECD 203 (Fish, Acute Toxicity	
erious eye amage/irritation:				Rabbit		Not irritant, References	12.1. Toxicity to	LC0	96h	>10	mg/l	Brachydanio	Test) OECD 203	Analog
erious eye amage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio	Not irritant	fish:			00		rerio	(Fish, Acute Toxicity Test)	conclus
erm cell utagenicity:					n) OECD 471 (Bacterial Reverse Mutation Test)	Negative	12.1. Toxicity to daphnia:	EC50	24h	>10 00	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)	Analog conclus
erm cell hutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative, References	12.1. Toxicity to algae:	NOEC/N OEL	72h	164 0	mg/l	Desmodesm us subspicatus	OECD 201 (Alga, Growth Inhibition	Analogo conclus
													Test) OECD 201	
	SECTI	ON 12: E	cologi	ical infor	mation		12.1. Toxicity to algae:	EC50	72h	1,5	mg/l		(Alga, Growth	
NAPP PM+ KLEBE	ation on enviro	nmental effec	s, see See	ction 2.1 (class	ification).			EC50 EC50	72h 72h	1,5		Desmodesm	(Alga,	Analogo
NAPP PM+ KLEBE oxicity / effect 2.1. Toxicity to	ation on envirc R GLUE COL Endpoin	nmental effec	s, see See		ification).	Notes n.d.a.	algae:				mg/l	Desmodesm us subspicatus	(Alga, Growth Inhibition Test) OECD 201 (Alga, Growth Inhibition	Analogo conclus
CNAPP PM+ KLEBE	ation on envirc R GLUE COL Endpoin	onmental effec LA Tim Valu	s, see See	ction 2.1 (class	ification).	n.d.a.	algae: 12.1. Toxicity to			164		us	(Alga, Growth Inhibition Test) OECD 201 (Alga, Growth	conclus
12.1. Toxicity to ish: 12.1. Toxicity to Japhnia: 12.1. Toxicity to algae:	ation on envirc R GLUE COL Endpoin	onmental effec LA Tim Valu	s, see See	ction 2.1 (class	ification).	n.d.a. n.d.a. n.d.a.	algae: 12.1. Toxicity to algae: 12.2.		72h	164 0	mg/l	us	(Alga, Growth Inhibition Test) OECD 201 (Alga, Growth Inhibition Test) OECD 302 C (Inherent Biodegradab iity -	With wa at the interface transform
CNAPP PM+ KLEBE Foxicity / effect (2.1. Toxicity to ish: (2.1. Toxicity to laphnia: (2.1. Toxicity to	ation on envirc R GLUE COL Endpoin	onmental effec LA Tim Valu	s, see See	ction 2.1 (class	ification).	n.d.a. n.d.a. n.d.a. With water at the interface, transforms slowly with formation of CO2 into a firm, insoluble reaction product with a high melting point (polycarba mide).	algae: 12.1. Toxicity to algae: 12.2. Persistence and		72h	164 0	mg/l	us	(Alga, Growth Inhibition Test) OECD 201 (Alga, Growth Inhibition Test) OECD 302 C (Inherent Biodegradab	With wa at the interface transform slowly w formatio of CO2 into a fir insoluble reaction product with a hi melting point (polycar mide), Accordii to experier
INAPP PM+ KLEBE	ation on envirc R GLUE COL Endpoin	onmental effec LA Tim Valu	s, see See	ction 2.1 (class	ification).	n.d.a. n.d.a. n.d.a. With water at the interface, transforms slowly with formation of CO2 into a firm, insoluble reaction product with a high melting point (polycarba mide). According to experience available to date, polycarba mide is inert and non- degradable	algae: 12.1. Toxicity to algae: 12.2. Persistence and		72h	164 0	mg/l	us	(Alga, Growth Inhibition Test) OECD 201 (Alga, Growth Inhibition Test) OECD 302 C (Inherent Biodegradab ility - Modified MITI Test	interface transform slowly w formatio of CO2 into a fir insoluble reaction product with a hi melting point (polycar mide)., Accordin
INAPP PM+ KLEBE oxicity / effect 2.1. Toxicity to aphnia: 2.1. Toxicity to Igae: 2.1. Toxicity to Igae: 2.2. Persistence and legradability: 2.3. isoacumulative	ation on envirc R GLUE COL Endpoin	onmental effec LA Tim Valu	s, see See	ction 2.1 (class	ification).	n.d.a. n.d.a. n.d.a. N.d.a. With water at the interface, transforms slowly with formation of CO2 into a firm, insoluble reaction product with a high melting point (polycarba mide). According to experience available to date, polycarba mide is inert and non-	algae: 12.1. Toxicity to algae: 12.2. Persistence and		72h	164 0	mg/l	us	(Alga, Growth Inhibition Test) OECD 201 (Alga, Growth Inhibition Test) OECD 302 C (Inherent Biodegradab ility - Modified MITI Test	With wa at the interface transfor of CO2 into a fir insolubl reaction product with a h melting point (polycar mide), Accordii to experier availabl to date, polycart ido is in and non
INAPP PM+ KLEBE oxicity / effect 2.1. Toxicity to aphnia: 2.1. Toxicity to I.1. Toxicity to Igae: 2.2. tersistence and egradability: 2.3. ioaccumulative otential: 2.4. Mobility in	ation on envirc R GLUE COL Endpoin	onmental effec LA Tim Valu	s, see See	ction 2.1 (class	ification).	n.d.a. n.d.a. n.d.a. With water at the interface, transforms slowly with formation of CO2 into a firm, insoluble reaction product with a high melting point (polycarba mide). According to experience available to date, polycarba mide is inert and non- degradable	algae: 12.1. Toxicity to algae: 12.2. Persistence and		72h	164 0	mg/l	us	(Alga, Growth Inhibition Test) OECD 201 (Alga, Growth Inhibition Test) OECD 302 C (Inherent Biodegradab ility - Modified MITI Test	With wa at the interfact transfor of CO2 into a fin insolubl reactior product with a h melting point (polycan mide), Accordi to experier availabl to date, polycart ido is in and nor
INAPP PM+ KLEBE Toxicity / effect 2.1. Toxicity to laphnia: 2.1. Toxicity to laphnia: 2.1. Toxicity to laphnia: 2.2. Toxicity to laphnia: 2.2. Toxicity to laphnia: 2.2. Toxicity to laphnia: 2.2. Toxicity to laphnia: 2.3. Toxicity to laphnia: 2.4. Mobility in soil: 2.5. Results of PBT and vPvB ssessment	ation on envirc R GLUE COL Endpoin	onmental effec LA Tim Valu	s, see See	ction 2.1 (class	ification).	n.d.a. n.d.a. n.d.a. with water at the interface, transforms slowly with formation of CO2 into a firm, insoluble reaction product with a high melting point (polycarba mide). According to experience available to date, polycarbam ide is inert and non- degradable n.d.a. n.d.a.	algae: 12.1. Toxicity to algae: 12.2. Persistence and		72h	164 0	mg/l	us	(Alga, Growth Inhibition Test) OECD 201 (Alga, Growth Inhibition Test) OECD 302 C (Inherent Biodegradab ility - Modified MITI Test	With wa at the interfact transfor of CO2 into a fin insolubl reactior product with a h melting point (polycan mide), Accordi to experier availabl to date, polycart ido is in and nor
INAPP PM+ KLEBE oxicity / effect 2.1. Toxicity to aphnia: 2.1. Toxicity to Igae: 2.2. Persistence and legradability: 2.3. ioaccumulative otential: 2.4. Mobility in oil: 2.5. Results of BT and VPvB	ation on envirc R GLUE COL Endpoin	onmental effec LA Tim Valu	s, see See	ction 2.1 (class	ification).	n.d.a. n.d.a. n.d.a. With water at the interface, transforms slowly with formation of CO2 into a firm, insoluble reaction product with a high melting point (polycarba mide). According to experience available to date, polycarba mide is inert and non- degradable n.d.a.	algae: 12.1. Toxicity to algae: 12.2. Persistence and		72h	164 0	mg/l	us	(Alga, Growth Inhibition Test) OECD 201 (Alga, Growth Inhibition Test) OECD 302 C (Inherent Biodegradab ility - Modified MITI Test	With wa at the interfact transfor of CO2 into a fin insolubl reactior product with a h melting point (polycan mide), Accordi to experier availabl to date, polycart ido is in and nor



GB) Page 7 of 9 Safety data sheet a Revision date / vers Replacing version of Valid from: 06.02.2 PDF print date: 06. KNAPP PM+ KLEE	sion: 06.02.20 dated / version 017 .02.2017	17 / 000 n: 24.07.2	6		5, Annex II			12.2. Persistence and degradability:		28d	0	%		OECD 302 C (Inherent Biodegradab ility - Modified MITI Test (II))	With water at the interface, transforms slowly with formation of CO2 into a firm,
12.2. Persistence and degradability:	BOD	28d	0	%		OECD 302 C (Inherent Biodegradab ility - Modified MITI Test (II))	With water at the interface, transforms slowly with formation of CO2 into a firm, insoluble reaction								insoluble reaction product with a high melting point (polycarba mide)., Analogous conclusion
							product with a high melting point (polycarba mide)., According	12.3. Bioaccumulative potential: 12.5. Results of PBT and vPvB	BCF	28d	200		Cyprinus caprio	OECD 305 (Bioconcentr ation - Flow- Through Fish Test)	Not to be expected, Analogous conclusion
							to experience	assessment							substance, No vPvB substance
							available to date, polycarbam ide is inert and non- degradable	Toxicity to bacteria:	EC50	3h	>10 0	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon	Analogous conclusion
12.3. Bioaccumulative potential:	BCF	28d	200		Cyprinus caprio	OECD 305 (Bioconcentr ation - Flow-	A notable biological accumulati							and Ammonium Oxidation))	
						Through Fish Test)	on potential has to be expected (LogPow >	Other organisms:	NOEC/N OEL	14d	>10 00		Lumbricus terrestris	OECD 207 (Earthworm, Acute Toxicity Tests)	Analogous conclusion
12.3. Bioaccumulative	Log Pow		5,22				3). A notable biological	Diphenylmethane Toxicity / effect	diisocyanate, Endpoin	isomere Tim	s and ho Valu	omologue Unit	s Organism	Test	Notes
potential:							accumulati on potential has to be	12.1. Toxicity to fish:	t LC50	e 96h	e >10 00	mg/l	Brachydanio rerio	method OECD 203 (Fish, Acute Toxicity	
12.5. Results of PBT and vPvB							expected (LogPow > 3). No PBT substance,	12.1. Toxicity to daphnia:	NOEC/N OEL	21d	>10	mg/l	Daphnia magna	Test) OECD 211 (Daphnia magna Reproductio	
assessment	5050					0505 000	No vPvB substance	12.1. Toxicity to	EC50	24h	>10	mg/l	Daphnia	n Test) OECD 202	
Toxicity to bacteria:	EC50	3h	>10 0	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition	Analogous conclusion	daphnia:	EC50	72h	>16	mg/l	magna Scenedesm	(Daphnia sp. Acute Immobilisati on Test) OECD 201	
						Test (Carbon and Ammonium		algae:			40		us subspicatus	(Alga, Growth Inhibition Test)	
Toxicity to bacteria:	EC50	3h	>10 0	mg/l	activated sludge	Oxidation)) OECD 209 (Activated Sludge, Respiration Inhibition		12.2. Persistence and degradability:		28d	0	%		OECD 301 C (Ready Biodegradab ility - Modified MITI Test (I))	Not biodegrada ble
0.1						Test (Carbon and Ammonium Oxidation))		12.3. Bioaccumulative potential:	BCF	42d	<14		Cyprinus caprio	OECD 305 (Bioconcentr ation - Flow- Through Fish Test)	A notable biological accumulati on potential is
Other information:							Does not contain any organically								not to be expected (LogPow 1- 3).
							bound halogens which can	12.5. Results of PBT and vPvB assessment							No PBT substance
							contribute to the AOX value in	Toxicity to bacteria:	EC50	3h	>10 0	mg/l	activated sludge	OECD 209 (Activated Sludge,	
Toxicity to annelids:	EC50	14d	>10 00	mg/k g	Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity	waste water.							Respiration Inhibition Test (Carbon and Ammonium	
- ()-						Tests)		Other organisms:	NOEC/N	14d	>10	mg/k	Eisenia	Oxidation)) OECD 207	
o-(p-isocyanatobe Toxicity / effect	Endpoin t	socyanat Tim e	te Valu e	Unit	Organism	Test method	Notes		OEL		00	g	foetida	(Earthworm, Acute Toxicity	
12.1. Toxicity to fish:	LCO	96h	> 100 0	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	Analogous conclusion	Other information:	BOD	28d	<10	%		Tests) OECD 302 C (Inherent Biodegradab	
12.1. Toxicity to daphnia:	EC50	24h	>10 00	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati	Analogous conclusion	Other						ility - Modified MITI Test (II))	Deers
12.1. Toxicity to daphnia:	NOEC/N OEL	21d	>10	mg/l	Daphnia magna	on Test) OECD 202 (Daphnia sp. Acute Immobilisati on Test)	Analogous conclusion	Other information:							Does not contain any organically bound halogens
12.1. Toxicity to algae:	ErC50	72h	>16 40	mg/l	Scenedesm us subspicatus	OFFEST OECD 201 (Alga, Growth Inhibition Test)	Analogous conclusion								which can contribute to the AOX value in waste



B) Page 8 of 9 Safety data sheet a Revision date / vers Replacing version o Valid from: 06.02.2	sion: 06.02.20 dated / versior 017	17 / 0000	6		6, Annex II			fish: 12.2.			000		rerio	(Fish, Acute Toxicity Test)	Not
PDF print date: 06. KNAPP PM+ KLEE	02.2017 BER GLUE CC	OLLA						Persistence and degradability:							biodeg ble
2,2'-methylenedip Toxicity / effect	henyl diisocy Endpoin	anate Tim	Valu	Unit	Organism	Test	Notes		SEC	FION 1	3: Di	sposal	considera	ations	
12.1. Toxicity to fish:	t LC50	e 96h	e >10 00	mg/l	Brachydanio rerio	method OECD 203 (Fish, Acute Toxicity Test)	Analogous conclusion	13.1 Waste tre For the subst	ance / mix			l amour	nts		
12.1. Toxicity to daphnia:	EC50	24h	>10 00	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)	Analogous conclusion	EC disposal code of The waste codes a Owing to the user's allocated under ce 08 04 09 waste ad	are recomments specific con- rtain circumst hesives and s	ditions for ances. (20	use and 014/955/E	disposal, c EU)	other waste codes	s may be	ces
12.1. Toxicity to algae:	EC50	72h	>16 40	mg/l	Scenedesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)	Analogous conclusion	08 05 01 waste iso Recommendation: Sewage disposal s Pay attention to loo E.g. suitable incine	hall be discor cal and nation eration plant.		regulatio	าร.			
12.2. Persistence and degradability:		28d	0	%		OECD 302 C (Inherent Biodegradab ility - Modified MITI Test (II))	With water at the interface, transforms slowly with formation of CO2 into a firm, insoluble	Hardened product: E.g. dispose at sui For contamin Pay attention to loc Empty container co Uncontaminated p. Dispose of packag 15 01 10 packagin	table refuse s ated pack cal and nation ompletely. ackaging can ing that canno g containing r	ing main al official be recycle be be clea residues o	regulation ed. ned in the of or conta	e same ma minated b		stances	
							reaction product		JEC		14.1	lanspu			
							with a high melting point (polycarba mide)., According to experience available to date, polycarbam ide is inert and non- degradable	General state 14.1. UN number: Transport by 14.2. UN proper st 14.3. Transport ha 14.4. Packing grou Classification code LQ: 14.5. Environment Tunnel restriction of Transport by 14.2. UN proper st 14.3. Transport ha 14.3. Transport ha	road/by ra iipping name: zard class(es p: : al hazards: sea (IMDC iipping name: zard class(es): i-code)	,	n.a	t applicable		
12.3. Bioaccumulative potential:	BCF	28d	200		Cyprinus caprio	OECD 305 (Bioconcentr ation - Flow- Through Fish Test)	A notable biological accumulati on potential has to be expected (LogPow > 3).	14.4. Packing grou Marine Pollutant: 14.5. Environment: Transport by 14.2. UN proper sh 14.3. Transport ha 14.4. Packing grou 14.5. Environment 14.6. Special	al hazards: air (IATA) ipping name: zard class(es ip: al hazards:):	Iser	n.a n.a	t applicable		
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance	Unless specified of 14.7. Transpo Non-dangerous ma	rt in bulk	accord	ing to A	Annex İl			Code
Toxicity to bacteria:	EC50	3h	>10 0		activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium	Analogous conclusion	15.1 Safety, h substance or Observe restriction Regulation (EC) N 4,4 ⁻ methylenedipt	ealth and mixture IS: 0 1907/2006, 1907/2006,	enviror Annex X\ nate	nmenta	0	ory inform ations/legisla		for the
Toxicity to annelids:	NOEC/N OEL	14d	>10 00	mg/k g	Eisenia foetida	Oxidation)) OECD 207 (Earthworm, Acute Toxicity	Analogous conclusion	o-(p-isocyanatober Diphenylmethaned 2,2'-methylenediph Comply with trade	liisocyanate, i ienyl diisocya	someres a nate		-	s.		
						Tests)		Directive 2010/75/				0 g	Л		
Calcium carbonat Toxicity / effect	e Endpoin	Tim	Valu	Unit	Organism	Test	Notes	Observe youth em Observe law on pre					gulation).		
12.1. Toxicity to	t LC50	e 96h	e >10	mg/l	Oncorhynch	method OECD 203		15.2 Chemica							
fish:			0		us mykiss	(Fish, Acute Toxicity		A chemical safety					r informatio	on	
12.1. Toxicity to daphnia:	EC50	48h	>10 0	mg/l	Daphnia magna	Test) OECD 202 (Daphnia sp. Acute Immobilisati		Revised sections:				3	morman		
12.1. Toxicity to algae:	EC50	72h	>14	mg/l	Desmodesm us subspicatus	on Test) OECD 201 (Alga, Growth Inhibition		These details refer Employee instructi Classification accordance w	on/training in and proc	handling I esses (hazardou U sed to	derive	the classific	ation of the n	nixture
Toxicity to	EC50	3h	>10	mg/l	activated	Test) OECD 209		Classification	in accord	lance w	vith	Ev	aluation met	hod used	
bacteria:			00		sludge	(Activated Sludge, Respiration Inhibition Test		regulation (EC Eye Irrit. 2, H3	C) No. 127 19			Cla	assification ac	ccording to cal	
						(Carbon and		STOT SE 3, H	335				assification ac cedure.	cording to cal	lculation
						Ammonium Oxidation))		Skin Irrit. 2, H3	315			Cla	assification ad	ccording to cal	Iculation
Toxicity to annelids:					Eisenia foetida	OECD 207 (Earthworm, Acute	Negative	Resp. Sens. 1				Cla	ocedure.	cording to cal	
Water colubility			0.04	a/I		Toxicity Tests)		Skin Sens. 1, I	-1317				assification ac ocedure.	cording to cal	Iculatior
Water solubility:			0,01 4	g/l				STOT RE 2, H	373			Cla	assification ac	cording to cal	
Silica, amorphous	5							Carc. 2, H351						cording to cal	1 1 1



	sheet according to Regulation (EC) No 1907/2006, Annex II te / version: 06.02.2017 / 0006	ODP OECD
	ersion dated / version: 24.07.2015 / 0005	org. PAH
PDF print da	+ KLEBER GLUE COLLA	PBT PC PE
		PE PNEC POCP
	g phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product stituents (specified in Section 2 and 3).	ppm
H315 Cause	ause an allergic skin reaction.	PROC
H319 Cause	s serious eye irritation. Iul if inhaled.	REACH 1907/2
H334 May c	ause allergy or asthma symptoms or breathing difficulties if inhaled.	REACH No. or
H351 Suspe	ause respiratory irritation. scied of causing cancer.	technic RID
	ause damage to organs through prolonged or repeated exposure.	Regula SADT
STOT SE -	Eye irritation - Specific target organ toxicity - single exposure - respiratory tract irritation Skin irritation	SAR SU
Resp. Sens.	. — Respiratory sensitization	SVHC Tel.
STOT RE -	— Skin sensitization – Specific target organ toxicity - repeated exposure	ThOD TOC
	rcinogenicity — Acute toxicity - inhalation	TRGS UN RT
An	y abbreviations and acronyms used in this document:	VbF VOC
		vPvB WEL-T
AC	Article Categories	(= time limit (1
acc., acc. to ACGIH	according, according to American Conference of Governmental Industrial Hygienists	WHO wwt
	Accord européen relatif au transport international des marchandises Dangereuses par Route (= greement concerning the International Carriage of Dangerous Goods by Road)	
AOEL AOX	Acceptable Operator Exposure Level Adsorbable organic halogen compounds	The sta are
approx.	approximately Article number	not me No res
ATE BAM	Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP) Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and	These Chen
Testing, Ger BAuA		5233
and Safety, BCF		© by C is forbi
BGV BHT	Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation) Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol)	
BMGV BOD	Biological monitoring guidance value (EH40, UK) Biochemical oxygen demand	
BSEF	Bromine Science and Environmental Forum body weight	
CAS CEC	Chemical Abstracts Service Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants	
and Other F CESIO		
CIPAC	Collaborative International Pesticides Analytical Council Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification,	
	d packaging of substances and mixtures) carcinogenic, mutagenic, reproductive toxic	
COD	Chemical oxygen demand	
CTFA DMEL	Cosmetic, Toiletry, and Fragrance Association Derived Minimum Effect Level	
DNEL DOC	Derived No Effect Level Dissolved organic carbon	
DT50 DVS	Dwell Time - 50% reduction of start concentration Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for	
dw	d Allied Processes) dry weight	
e.g. EC	for example (abbreviation of Latin 'exempli gratia'), for instance European Community	
ECHA EEA	European Chemicals Agency European Economic Area	
EEC EINECS	European Economic Community European Inventory of Existing Commercial Chemical Substances	
ELINCS EN	European List of Notified Chemical Substances European Norms	
EPA ERC	United States Environmental Protection Agency (United States of America) Environmental Release Categories	
ES etc.	Exposure scenario et cetera	
EU EWC	European Union European Waste Catalogue	
Fax. gen.	Fax number general	
GHS GWP	Globally Harmonized System of Classification and Labelling of Chemicals Global warming potential	
HET-CAM HGWP	Hen's Egg Test - Chorionallantoic Membrane Halocarbon Global Warming Potential	
IARC	International Agency for Research on Cancer International Air Transport Association	
IBC	International Bulk Container International Bulk Chemical (Code)	
IC	Inhibitory concentration	
incl.	International Maritime Code for Dangerous Goods including, inclusive	
IUCLID LC	International Uniform ChemicaL Information Database lethal concentration	
LC50 LCLo	lethal concentration 50 percent kill lowest published lethal concentration	
LD LD50	Lethal Dose of a chemical Lethal Dose, 50% kill	
LDLo LOAEL	Lethal Dose Low Lowest Observed Adverse Effect Level	
LOEC LOEL	Lowest Observed Effect Concentration Lowest Observed Effect Level	
LQ MARPOL	Limited Quantities International Convention for the Prevention of Marine Pollution from Ships	
n.a.	not applicable not applicable	
n.av.	not available not checked	1
n.c.	no data available	
	no data available National Institute of Occupational Safety and Health (United States of America) No Observed Adverse Effective Concentration	

	NOEL No	Observed Effect Level
		one Depletion Potential
		ganisation for Economic Co-operation and Development Janic
		ycyclic aromatic hydrocarbon
	PBT per	rsistent, bioaccumulative and toxic
		emical product category
_		lyethylene edicted No Effect Concentration
		otochemical ozone creation potential
t		ts per million
		ocess category
		lytetrafluorethylene
		gistration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No cerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)
	REACH-IT List-	
		nerical identifier. List Numbers do not have any legal significance, rather they are purely
	technical identif	iers for processing a submission via REACH-IT.
		glement concernant le transport International ferroviaire de marchandises Dangereuses (=
		cerning the International Carriage of Dangerous Goods by Rail) If-Accelerating Decomposition Temperature
		ucture Activity Relationship
	SU Se	ctor of use
		bstances of Very High Concern
		lephone eoretical oxygen demand
		tal organic carbon
		chnische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances)
		ited Nations Recommendations on the Transport of Dangerous Goods
		rordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))
_		latile organic compounds y persistent and very bioaccumulative
	WEL-TWA, WE	
		d average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure
		reference period) (EH40, UK).
		orld Health Organization t weight
	wwi we	tweight
		made here should describe the product with regard to the necessary safety precautions - they
	are	arantee definite characteristics - but they are based on our present up-to-date knowledge.
	No responsibilit	
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