

Septicare II Bond - 50 ml/160 ml/200 ml/250 ml (comp. A)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	26.03.2018	2637954-00001	Date of first issue: 26.03.2018

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

1.1 Product identifier

Trade name

: Septicare II Bond - 50 ml/160 ml/200 ml/250 ml (comp. A)

Product code

: 106652001 / 106652005

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-	:	Adhesives
stance/Mixture		

1.3 Details of the supplier of the safety data sheet

Company	: UKAL Elevage 2 rue de l'Etang F-67360 ESCHBACH
Telephone	: +33 3 88 07 40 15
Telefax	: +33 3 88 07 40 14
E-mail address of person responsible for the SDS	: <u>ukalel@ukal-elevage.com</u>

1.4 Emergency telephone number

+49 (0)6132 - 84463

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) Acute toxicity, Category 4 H332: Harmful if inhaled.				
Acute toxicity, Category 4				
Skin irritation, Category 2	H315: Causes skin irritation.			
Eye irritation, Category 2	H319: Causes serious eye irritation.			
Respiratory sensitisation, Category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.			
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.			
Carcinogenicity, Category 2	H351: Suspected of causing cancer.			
Specific target organ toxicity - single ex- posure, Category 3	H335: May cause respiratory irritation.			

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Specific target organ toxicity - re exposure, Category 2			3: May cause damage to organs through pro- ed or repeated exposure.	
2.2 Label e	elements			
	ling (REGULATION (E d pictograms	EC) :	No 1272/2008)	!
Signa	l word	:	Danger	
Hazar	d statements	:	H317 May cau H319 Causes H332 Harmful H334 May cau difficulties if inha H335 May cau H351 Suspect	ise respiratory irritation. ed of causing cancer. ise damage to organs through prolonged or
Preca	utionary statements	:	P260 Do not b P264 Wash sk P280 Wear pr tion/ face protec Response: P304 + P340 + I air and keep cor CENTER/doctor	

Hazardous components which must be listed on the label: Castor oil, polymer with 1,1'-methylenebis[4-isocyanatobenzene] 4,4'-Diphenylmethane diisocyanate

2.3 Other hazards

Excessive exposure may aggravate preexisting asthma and other respiratory disorders (e.g. emphysema, bronchitis, reactive airways dysfunction syndrome).

according to Regulation (EC) No. 1907/2006

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Castor oil, polymer with 1,1'- methylenebis[4- isocyanatobenzene]	68424-09-9	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 STOT RE 2; H373	>= 90 - <= 100
4,4'-Diphenylmethane diisocya- nate	101-68-8 202-966-0 615-005-00-9 01-2119457014-47	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 STOT RE 2; H373	>= 10 - < 20

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	In the case of accident or if you feel unwell, seek med vice immediately. When symptoms persist or in all cases of doubt seek advice.	
Protection of first-aiders	First Aid responders should pay attention to self-prote and use the recommended personal protective equip when the potential for exposure exists.	-
If inhaled	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.	
In case of skin contact	In case of contact, immediately flush skin with plenty for at least 15 minutes while removing contaminated and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.	

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In case of eye contact		for at least 15	emove contact lens, if worn.		
If swallowed		Get medical a	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.		
4.2 Most i	mportant symptoms	and effects, both ac	ute and delayed		
Risks		Causes seriou Harmful if inha May cause all ties if inhaled. May cause res Suspected of	allergic skin reaction. Is eye irritation.		
		delayed. Excessive exp other respirato	mptoms, including pulmonary edema, may be posure may aggravate preexisting asthma and pry disorders (e.g. emphysema, bronchitis, reac- ysfunction syndrome).		
4.3 Indica	tion of any immediat	e medical attention	and special treatment needed		
Treatment		: Treat sympton	Treat symptomatically and supportively.		

SECTION 5: Firefighting measures

5.1 Extinguishing media		
Suitable extinguishing media	:	Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical Water spray in large fire situations
Unsuitable extinguishing media	:	High volume water jet
5.2 Special hazards arising from	the	e substance or mixture
Specific hazards during fire- fighting	:	Exposure to combustion products may be a hazard to health. If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.
Hazardous combustion prod- ucts	:	Carbon oxides Nitrogen oxides (NOx)
		1/00



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				Hydrogen cyanide Isocyanates	e (hydrocyanic acid)
5.3	Advice	for firefighters			
Special protective equipment for firefighters		:		e, wear self-contained breathing apparatus. ective equipment.	
Specific extinguishing meth- ods		:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do	

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	 Use personal protective equipment. Follow safe handling advice and personal protective equip- ment recommendations.
6.2 Environmental precautions	

6.2 Environmental precautions

Environmental precautions	:	Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
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6.3 Methods and material for containment and cleaning up

	Methods for cleaning up	 Soak up with inert absorbent material. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. After approximately one hour, transfer to waste container and do not seal, due to evolution of carbon dioxide. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.
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6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

according to Regulation (EC) No. 1907/2006

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SECTION 7: Handling and storage

7.1 Precautions for safe handling	J	
Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	Use with local exhaust ventilation.
Advice on safe handling	:	Do not get on skin or clothing. Do not breathe vapours or spray mist. Do not swallow. Do not get in eyes. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Keep container tightly closed. Keep away from water. Protect from moisture. Already sensitised individuals should consult their physician regarding working with respiratory irritants or sensitisers. Take care to prevent spills, waste and minimize release to the environment.
Hygiene measures	:	Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.
7.2 Conditions for safe storage, i	ncl	uding any incompatibilities
Requirements for storage areas and containers	:	Keep in properly labelled containers. Store locked up. Protect from moisture. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations.
Advice on common storage	:	Do not store with the following product types: Strong oxidizing agents
Storage class (TRGS 510)	:	10, Combustible liquids
Recommended storage tem- perature	:	18 - 30 °C
7.3 Specific end use(s)		
Specific use(s)	:	No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits



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Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis		
4,4'- Diphenylmethane diisocyanate	101-68-8	AGW (Vapour and aerosols)	0,05 mg/m3	TRGS 430		
Peak-limit: excur- sion factor (catego- ry)	1;=2=(l)					
Further information	Sum of vapour and aerosols, The exposure limit is established for monomers. For regulatory details on oligomers and polymers see TRGS 430 'Isocyanate'., airway sensitizing substance					
		AGW (Vapour and aerosols, inhalable frac- tion)	0,05 mg/m3	DE TRGS 900		
Peak-limit: excur- sion factor (catego- ry)	1;=2=(I)					
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission)., Sum of vapor and aerosols., The exposure limit is established for monomers. For regulatory details on oligomers and polymers see TRGS 430 'Isocyanate'., Skin absorption, When there is compli- ance with the OEL and biological tolerance values, there is no risk of harming the unborn child, Substance sensitizing through the skin and respiratory sys- tem					

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
4,4'-Diphenylmethane diisocyanate	Workers	Inhalation	Long-term local ef- fects	0,05 mg/m3
	Workers	Inhalation	Acute local effects	0,1 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	0,025 mg/m3
	Consumers	Inhalation	Acute local effects	0,05 mg/m3

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
4,4'-Diphenylmethane diisocya-	Fresh water	1 mg/l
nate		
	Marine water	0,1 mg/l
	Intermittent use/release	10 mg/l
	Sewage treatment plant	1 mg/l
	Soil	1 mg/kg

8.2 Exposure controls

Engineering measures

Processing may form hazardous compounds (see section 10). Minimize workplace exposure concentrations. Use with local exhaust ventilation.

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Pers	onal protective equipm	nent		
Eye	protection	:	Wear the followin Safety goggles	g personal protective equipment:
M Bi G	l protection aterial reak through time love thickness irective	: :	butyl-rubber > 480 min 0,7 mm DIN EN 374	
Bi G	aterial reak through time love thickness irective	:	butyl-rubber > 120 min 0,7 mm DIN EN 374	
R	emarks	:	on the concentrat stance and specif we recommend c aforementioned p	protect hands against chemicals depending ion and quantity of the hazardous sub- ic to place of work. For special applications, larifying the resistance to chemicals of the rotective gloves with the glove manufactur- before breaks and at the end of workday.
Skin	and body protection	:	resistance data a potential. Skin contact mus	e protective clothing based on chemical nd an assessment of the local exposure t be avoided by using impervious protective aprons, boots, etc).
Resp	iratory protection	:	ventilation is prov	rotection unless adequate local exhaust ided or exposure assessment demonstrates e within recommended exposure guidelines.
Filter	type	:	Combined particu	lates and organic vapour type (A-P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	amber
Odour	:	characteristic
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling	:	No data available

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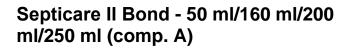
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	range				
	Flash p	oint	:	>= 200 °C	
	Evapor	ation rate	:	No data available	2
	Flamma	ability (solid, gas)	:	Not applicable	
		explosion limit / Upper bility limit	:	No data available	9
		explosion limit / Lower bility limit	:	No data available	9
	Vapour	pressure	:	5 - < 10 mmHg (2	25 °C)
	Relative	e vapour density	:	No data available	9
	Relative	e density	:	1,15	
	Density	,	:	ca. 1,15 g/cm3	
	Solubili Wat	ty(ies) er solubility	:	insoluble	
	Partitio octanol	n coefficient: n- /water	:	Not applicable	
	Auto-ig	nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ty cosity, dynamic	:	3.000 - 6.000 mF	Pa.s (23 °C)
	Visc	osity, kinematic	:	No data available	9
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.
9.2	Other in	formation			
	Flamma	ability (liquids)	:	No data available	9
	Particle	e size	:	Not applicable	

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.





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10.2 Chemical stability

Stable if used as directed. Follow precautionary advice and avoid incompatible materials and conditions.

Polymerises at high temperatures with evolution of carbon dioxide.

10.3 Possibility of hazardous reactions

Hazardous reactions	 Isocyanates react with many materials and the rate of reaction increases with temperature as well as increased contact; these reactions can become violent. Contact is increased by stirring or if the other material mixes with the isocyanate. Exothermic reaction with acids, amines and alcohols Reacts with water to form carbon dioxide and heat Isocyanates are not soluble in water and sink to the bottom, but react slowly at the interface. The reaction forms carbon dioxide gas and a layer of solid polyurea. Hazardous decomposition products will be formed upon contact with water or humid air.

10.4 Conditions to avoid

Conditions to avoid

: Exposure to moisture

10.5 Incompatible materials

Materials to avoid

: Oxidizing agents Acids Bases Water Alcohols Amines Ammonia Aluminium Zinc Brass Tin Copper Galvanised metals Humid air

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of	:	Inhalation
exposure		Skin contact
		Ingestion
		Eye contact

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A	Acute	oxicity			
H	Harmfu	l if inhaled.			
<u>P</u>	Produc	: <u>t:</u>			
А	Acute ii	nhalation toxicity	:	Acute toxicity estimate: 1,25 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method	
<u>C</u>	Compo	onents:			
C	Castor	oil, polymer with 1,1	'-me	ethylenebis[4-isod	cyanatobenzene]:
A	Acute c	oral toxicity	:	LD50 (Rat): > 5.0 Remarks: Based	00 mg/kg on data from similar materials
A	Acute ii	nhalation toxicity	:	Acute toxicity esti Exposure time: 4 Test atmosphere: Method: Expert ju Remarks: Based	h : dust/mist
A	Acute c	lermal toxicity	:	LD50 (Rabbit): > Remarks: Based	5.000 mg/kg on data from similar materials
4	l,4'-Dip	ohenylmethane diiso	cya	nate:	
А	Acute c	oral toxicity	:	icity	00 mg/kg substance or mixture has no acute oral tox- on data from similar materials
А	Acute ii	nhalation toxicity	:	LC50 (Rat): > 2,2 Exposure time: 1 Test atmosphere: Method: OECD T	h
А	Acute c	lermal toxicity	:	LD50 (Rabbit): > Remarks: Based	5.000 mg/kg on data from similar materials
_		orrosion/irritation			
<u>C</u>	Compo	onents:			
С	Castor	oil, polymer with 1,1	'-me	ethylenebis[4-isod	cyanatobenzene]:
	Species		:	Rabbit	
	Method		:	OECD Test Guide	eline 404
	Result Remarl	(S	:	Skin irritation Based on data fro	om similar materials

4,4'-Diphenylmethane diisocyanate:



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es od It arks	: Skin irritatio	t Guideline 404 on lata from similar materials
or oil, polymer with 1	,1'-methylenebis[4-isocyanatobenzene]:
lt arks	: Based on d	eyes, reversing within 21 days lata from similar materials armonised classification in EU regulation Annex VI
	26.03.2018 es od it arks us eye damage/eye es serious eye irritatio <u>conents:</u> or oil, polymer with 1	26.03.2018 2637954-0000 es : Rabbit od : OECD Test it : Skin irritation arks : Based on d us eye damage/eye irritation es serious eye irritation. conents: or oil, polymer with 1,1'-methylenebis[it : Irritation to arks : Based on d

4,4'-Diphenylmethane diisocyanate:

Result :	Irritation to eyes, reversing within 7 days
Remarks :	Based on harmonised classification in EU regulation
	1272/2008, Annex VI

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Components:

Castor oil, polymer with 1,1'-methylenebis[4-isocyanatobenzene]:

:	Local lymph node assay (LLNA) Skin contact Mouse positive Based on data from similar materials
:	Probability or evidence of skin sensitisation in humans
:	inhalation (dust/mist/fume) Guinea pig positive Based on data from similar materials
:	Probability of respiratory sensitisation in humans based on animal testing

4,4'-Diphenylmethane diisocyanate:

Test Type	:	Buehler Test
Exposure routes	:	Skin contact

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Specie Result		:	Guinea pig positive	
Assess	sment	:	Probability or e	evidence of skin sensitisation in humans
Exposi Specie Result Remar	ks	: : : :		from similar materials espiratory sensitisation in humans based on
A55653	Sment	•	animal testing	espiratory sensitisation in numans based on
	cell mutagenicity assified based on availa	able	information.	
<u>Comp</u>	onents:			
	r oil, polymer with 1,1	'-me	-	
Genoto	oxicity in vitro	:	Method: Direct Result: negative	cterial reverse mutation assay (AMES) ive 67/548/EEC, Annex, B.13/14 re ed on data from similar materials
Genoto	oxicity in vivo	:	cytogenetic as Species: Rat Application Ro Method: OECI Result: negativ	ute: inhalation (dust/mist/fume)) Test Guideline 474
4,4'-Di	phenylmethane diiso	cvai	nate:	
		-		cterial reverse mutation assay (AMES) re
Genoto	oxicity in vivo	:	 Test Type: Mammalian erythrocyte micronucleus test (in viv cytogenetic assay) Species: Rat Application Route: inhalation (dust/mist/fume) Method: OECD Test Guideline 474 Result: negative 	
	ogenicity cted of causing cancer.			
	onents:			
Casto	r oil, polymer with 1,1	'-me	ethylenebis[4-i	socyanatobenzene]:
Specie		:	Rat inhalation (dus	

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Res Ren	narks		from similar materials
Car mer	cinogenicity - Assess- It	: Limited evidence	ce of carcinogenicity in animal studies
4,4'	Diphenylmethane diis	ocyanate:	
App Exp Res	cies lication Route osure time ult narks	: Rat : inhalation (dust : 2 Years : positive : Based on data	t/mist/fume) from similar materials
Car	cinogenicity - Assess- t	: Limited evidence	ce of carcinogenicity in animal studies

Reproductive toxicity

Not classified based on available information.

Components:

Castor oil, polymer with 1,1'-methylenebis[4-isocyanatobenzene]:

Effects on fertility :	Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test Species: Rat Application Route: inhalation (vapour) Method: OECD Test Guideline 422 Result: negative Remarks: Based on data from similar materials
Effects on foetal develop-	Test Type: Embryo-foetal development Species: Rat Application Route: inhalation (dust/mist/fume) Method: OECD Test Guideline 414 Result: negative Remarks: Based on data from similar materials

4,4'-Diphenylmethane diisocyanate:

Test Type: Embryo-foetal development
Species: Rat
Application Route: inhalation (dust/mist/fume)
Result: negative
Remarks: Based on data from similar materials

STOT - single exposure

May cause respiratory irritation.



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Comp	oonents:				
Casto	or oil, polymer with	1,1'-methylenebis[4-i	socyanatobenzene]:		
	sment		piratory irritation.		
4,4'-D	iphenylmethane dii	socyanate:			
Asses	sment	: May cause res	piratory irritation.		
стот	- repeated exposu	e			
May c	ause damage to orga	ans through prolonged	or repeated exposure.		
<u>Comp</u>	oonents:				
Casto	or oil, polymer with	1,1'-methylenebis[4-i			
	sure routes	: inhalation (dus			
-	t Organs ssment	: Shown to prod	 Respiratory system Shown to produce significant health effects in animals at concentrations of >0.02 to 0.2 mg/l/6h/d. 		
4,4'-D	iphenylmethane dii	socyanate:			
	sure routes	: inhalation (dus			
-	t Organs ssment		uce significant health effects in animals at co >0.02 to 0.2 mg/l/6h/d.		
Repe	ated dose toxicity				
<u>Comp</u>	oonents:				
Casto	or oil, polymer with	1,1'-methylenebis[4-i	socyanatobenzene]:		
Speci		: Rat			
	L ation Route	: 0,05 mg/kg : inhalation (dus	t/mist/fumo)		
	sure time	: 90 Days			
Rema			from similar materials		
4,4'-D	iphenylmethane dii	socyanate:			
Speci		: Rat			
NOAE		: 0,2 mg/m3			
LOAE		: 1 mg/m3			
	ation Route	: inhalation (dus	wmisviume)		
Rema	sure time Irks	: 2 yr : Based on data	from similar materials		

Not classified based on available information.

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SECTION 12: Ecological information

12.1 Toxicity

Com	ponents:

Castor oil, polymer with 1,1'-methylenebis[4-isocyanatobenzene]:

Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 24 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials
Toxicity to algae	:	ErC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
		NOEC (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC: > 1 - 10 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211 Remarks: Based on data from similar materials
4,4'-Diphenylmethane diisoc	yaı	nate:
Toxicity to fish	:	LC50 (Oryzias latipes (Orange-red killifish)): > 3.000 mg/l Exposure time: 96 h Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 129,7 mg/l Exposure time: 24 h Method: OECD Test Guideline 202
Toxicity to algae	:	EC50 (Desmodesmus subspicatus (green algae)): > 1.640 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
		NOEC (Desmodesmus subspicatus (green algae)): 1.640 mg/l Exposure time: 72 h Method: OECD Test Guideline 201



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				Remarks: Based	on data from similar materials
-	Toxicity	to microorganisms	:	Exposure time: 3 Method: OECD T	h
á		to daphnia and other invertebrates (Chron- ty)	:	Method: OECD T	magna (Water flea)
12.2	Persist	ence and degradabil	ity		
<u>(</u>	Compo	onents:			
(Castor	oil, polymer with 1,1	'-me	ethylenebis[4-isod	yanatobenzene]:
I	Biodegr	radability	:		0 %
4	4,4'-Dip	phenylmethane diisoo	cya	nate:	
I	Biodegr	radability	:	Result: Not readily Biodegradation: (Exposure time: 28 Method: OECD T Remarks: Based	0 % 3 d
12.3	Bioacc	umulative potential			
<u>(</u>	Compo	onents:			
(Castor	oil, polymer with 1,1	'-me	ethylenebis[4-isoc	;yanatobenzene]:
I	Bioaccu	umulation	:	Method: OECD T	factor (BCF): 92 - 200
4	4,4'-Dip	ohenylmethane diisoo	cya	nate:	
ł	Bioaccu	umulation	:	Species: Cyprinus Bioconcentration	
-	Partitior octanol	n coefficient: n- /water	:	log Pow: 4,51	
		y in soil a available			
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12.5 Results of PBT and vPvB assessment

Not relevant

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

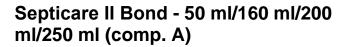
13.1 Waste treatment methods

Product	:	Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.
Contaminated packaging	:	Empty containers should be taken to an approved waste han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.
Waste Code	:	The following Waste Codes are only suggestions:
		used product 080501, waste isocyanates
		unused product 080501, waste isocyanates
		uncleaned packagings 150110, packaging containing residues of or contaminated by dangerous substances
		Acc. Packaging Ordinance properly emptied packaging: Properly emptied, non-contaminated packaging of non- hazardous products can be supplied to a system for the col- lection of sales packaging.

SECTION 14: Transport information

14.1 UN number

ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	UN 3334
14.2 UN proper shipping name		
ADN	:	Not regulated as a dangerous good





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ADR			Not regulated as	a dangerous good
RID			-	a dangerous good
IMD	2		-	a dangerous good
IATA		:	Aviation regulated as	
	sport hazard class(es)	•	Aviation regulate	יש ווקטום, וו.ט.ס.
ADN		:	Not regulated as	a dangerous good
ADR		:	-	a dangerous good
RID		:	-	a dangerous good
IMD	G	:	-	a dangerous good
ΙΑΤΑ	l l	:	9	
14.4 Pacl	king group			
ADN		:	Not regulated as	a dangerous good
ADR		:	Not regulated as	a dangerous good
RID		:	Not regulated as	a dangerous good
IMDO	G	:	Not regulated as	a dangerous good
	(Cargo) ing instruction (cargo aft)	:	964	
Pack	ing instruction (LQ)	:	Y964	
Pack Labe	ing group Is	:	III Miscellaneous	
Pack	(Passenger) ing instruction (passen- ircraft)	:	964	
Pack	ing instruction (LQ)	:	Y964	
Pack Labe	ing group Is	:	III Miscellaneous	
	ronmental hazards			
ADN		:	Not regulated as	a dangerous good
ADR		:	-	a dangerous good
RID		:	Not regulated as	a dangerous good
IMD	6	:	Not regulated as	a dangerous good

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks

: Not applicable for product as supplied.

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SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable		
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable		
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable		
Regulation (EC) No 850/2004 on persistent organic pol- lutants	:	Not applicable		
Regulation (EC) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	:	Not applicable		
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	:	Conditions of restriction for the fol- lowing entries should be considered: (3)		
		4,4'-Diphenylmethane diisocyanate (56)		
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of				

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Not applicable

Water contaminating class (Germany)	:	WGK 1 slightly hazardous to water Classification according to AwSV, Annex 1 (5.2)
Volatile organic compounds	-	Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 0 %

Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

TRGS 430 (German regulatory requirements)

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

according to Regulation (EC) No. 1907/2006



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SECTION 16: Other information

Full text of H-Statements					
H315	:	Causes skin irritation.			
H317	:	May cause an allergic skin reaction.			
H319	:	Causes serious eye irritation.			
H332	:	Harmful if inhaled.			
H334	:	May cause allergy or asthma symptoms or breathing difficul- ties if inhaled.			
H335	:	May cause respiratory irritation.			
H351	:	Suspected of causing cancer.			
H373	:	May cause damage to organs through prolonged or repeated exposure.			
H373	:	May cause damage to organs through prolonged or repeated exposure if inhaled.			
Full text of other abbreviations					
Full text of other abbreviation	ns				
Full text of other abbreviation Acute Tox.	ns :	Acute toxicity			
	ns : :	Acute toxicity Carcinogenicity			
Acute Tox.	ns : :				
Acute Tox. Carc.	ns : : :	Carcinogenicity			
Acute Tox. Carc. Eye Irrit.	ns : : : :	Carcinogenicity Eye irritation			
Acute Tox. Carc. Eye Irrit. Resp. Sens.	:	Carcinogenicity Eye irritation Respiratory sensitisation			
Acute Tox. Carc. Eye Irrit. Resp. Sens. Skin Irrit.	:	Carcinogenicity Eye irritation Respiratory sensitisation Skin irritation			
Acute Tox. Carc. Eye Irrit. Resp. Sens. Skin Irrit. Skin Sens.	:	Carcinogenicity Eye irritation Respiratory sensitisation Skin irritation Skin sensitisation			
Acute Tox. Carc. Eye Irrit. Resp. Sens. Skin Irrit. Skin Sens. STOT RE	:	Carcinogenicity Eye irritation Respiratory sensitisation Skin irritation Skin sensitisation Specific target organ toxicity - repeated exposure			
Acute Tox. Carc. Eye Irrit. Resp. Sens. Skin Irrit. Skin Sens. STOT RE STOT SE	:	Carcinogenicity Eye irritation Respiratory sensitisation Skin irritation Skin sensitisation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure			
Acute Tox. Carc. Eye Irrit. Resp. Sens. Skin Irrit. Skin Sens. STOT RE STOT SE DE TRGS 900		Carcinogenicity Eye irritation Respiratory sensitisation Skin irritation Skin sensitisation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure Germany. TRGS 900 - Occupational exposure limit values. Germany. TRGS 430 - Isocyanates			

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New



Classification procedure:

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Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Sources of key data used to :	Internal technical data, data from raw material SDSs, OECD
compile the Safety Data	eChem Portal search results and European Chemicals Agen-
Sheet	cy, http://echa.europa.eu/

Classification of the mixture:

		•
Acute Tox. 4	H332	Calculation method
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Resp. Sens. 1	H334	Calculation method
Skin Sens. 1	H317	Calculation method
Carc. 2	H351	Calculation method
STOT SE 3	H335	Calculation method
STOT RE 2	H373	Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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