

B Page 1 of 8 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 11.09.2019 / 0011 Replacing version dated / version: 29.03.2019 / 0010 Valid from: 11.09.2019 PDF print date: 12.09.2019 ferax 20-1K-PUR-Konstruktionsklebstoff	<b>2.3 Other hazards</b> The mixture does not contain any vPvB substance (vPvB = v included under XIII of the regulation (EC) 1907/2006 (< 0,1 %) The mixture does not contain any PBT substance (PBT = pe under XIII of the regulation (EC) 1907/2006 (< 0,1 %).	ó).
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II	SECTION 3: Composition/info	ormation on ingredients
SECTION 1: Identification of the substance/mixture and of the	3.1 Substance	
company/undertaking	3.2 Mixture	
oompany/andortaking	4,4'-methylenediphenyl diisocyanate	
	Registration number (REACH)	01-2119457014-47-XXXX
1.1 Product identifier		615-005-00-9
ferax 20-1K-PUR-Konstruktionsklebstoff	EINECS, ELINCS, NLP CAS	202-966-0 101-68-8
	content %	5-15
1.2 Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses of the substance or mixture: Adhesive Sector of use [SU]: SU21 - Consumer uses: Private households (=general public = consumers) Uses advised against: No information available at present.	Classification according to Regulation (EC) 1272/2008 (CLP)	Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H315 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT RE 3, H335 STOT RE 2, H373 (respiratory system) (as inhalation)
1.3 Details of the supplier of the safety data sheet	Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate	
	Registration number (REACH)	01-2119457015-45-XXXX
ferax e.K., Ringstraße 16, 86653 Monheim, Germany	Index EINECS, ELINCS, NLP	 905-806-4 (REACH-IT List-No.)
Phone: +49 (0) 90 91 / 907 997 - 0, Fax: +49 (0) 90 91 / 907 997 - 99	CAS	905-806-4 (REACH-IT LIST-NO.)
info@ferax.de, www.ferax.de	content %	5-15
Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets. 1.4 Emergency telephone number Emergency information services / official advisory body:  Telephone number of the company in case of emergencies:	Classification according to Regulation (EC) 1272/2008 (CLP)	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Acute Tox. 4, H332 Resp. Sens. 1, H334 STOT SE 3, H335 Carc. 2, H351 STOT RE 2, H373 (respiratory system) (as inhalation)
+49 (0) 700 / 24 112 112 (WIC)		
	Methylenediphenyl diisocyanate, modified	01 0110 1570 10 10 10 10 10 10
SECTION 2: Hazards identification	Registration number (REACH) Index	01-2119457013-49-XXXX
	EINECS, ELINCS, NLP	500-040-3 (NLP)
2.1 Classification of the substance or mixture	CAS	25686-28-6
Classification according to Regulation (EC) 1272/2008 (CLP)	content %	5-15
Hazard class       Hazard category       Hazard statement         Eye Irrit.       2       H319-Causes serious eye irritation.         STOT SE       3       H335-May cause respiratory irritation.         Skin Irrit.       2       H319-Causes skin irritation.         Resp. Sens.       1       H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled.         Skin Sens.       1       H317-May cause an allergic skin reaction.	Classification according to Regulation (EC) 1272/2008 (CLP)	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Acute Tox. 4, H332 Resp. Sens. 1, H334 STOT SE 3, H335 Carc. 2, H351 STOT RE 2, H373 (respiratory system) (as inhalation)
Carc. 2 H351-Suspected of causing cancer.	Propylene carbonate	
STOT RE 2 H373-May cause damage to organs through	Registration number (REACH)	01-2119537232-48-XXXX
prolonged or repeated exposure by	Index EINECS, ELINCS, NLP	607-194-00-1 203-572-1
inhalation (respiratory system).	CAS	108-32-7
	content %	1-5
2.2 Label elements	Classification according to Regulation (EC) 1272/2008	Eye Irrit. 2, H319
Labeling according to Regulation (EC) 1272/2008 (CLP)	(CLP)	
	Dibutyltin dilaurate	
	Registration number (REACH)	01-2119496068-27-XXXX
	Index	050-030-00-3
	EINECS, ELINCS, NLP	201-039-8 77-58-7
	CAS content %	0,1-<0,25
Danger H319-Causes serious eye irritation. H335-May cause respiratory irritation. H315-Causes skin irritation. H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317-	Classification according to Regulation (EC) 1272/2008 (CLP)	Muta. 2, H341 Repr. 1B, H360FD Skin Corr. 1C, H314 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) Skin Sens. 1, H317 STOT SE 1, H370 STOT SE 1, H372 (immune system) Eye Dam. 1, H318
May cause an allergic skin reaction. H351-Suspected of causing cancer. H373-May cause damage to organs through prolonged or repeated exposure by inhalation (respiratory system). P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children.	For the text of the H-phrases and classification codes (GHS/ The substances named in this section are given with their ac For substances that are listed in appendix VI, table 3.1 of the this means that all notes that may be given here for the name	tual, appropriate classification! regulation (EC) no. 1272/2008 (CLP regulation) ad classification have been taken into account.
P201-Obtain special instructions before use. P260-Do not breathe vapours or spray. P271-Use only outdoors or in a well-ventilated area. P280-Wear protective gloves / protective clothing / eye	SECTION 4: First a	ia measures
profection / face protection. P284-Wear respiratory protection. 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. Continue rinsing. P308+P313-IF exposed or concerned: Get medical advice / attention. P405-Store locked up. P501-Dispose of contents / container to an approved waste disposal facility.	<ul> <li>4.1 Description of first aid measures</li> <li>First-aiders should ensure they are protected!</li> <li>Never pour anything into the mouth of an unconscious perso</li> <li>Inhalation</li> <li>Remove person with fresh air and consult doctor according to</li> </ul>	
EUH204-Contains isocyanates. May produce an allergic reaction.	If the person is unconscious, place in a stable side position a	nd consult a doctor.
Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used. Dibutyfin dilaurate 4,4'-methylenediphenyl diisocyanate Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl	Respiratory arrest - Artificial respiration apparatus necessary <b>Skin contact</b> Wipe off residual product carefully with a soft, dry cloth. Remove polluted, soaked clothing immediately, wash thorou irritation of the skin (flare), consult a doctor. Dab away with polyethylene glycol 400 <b>Eye contact</b> Remove contact lenses. Wash thoroughly for several minutes using copious water - c	ghly with plenty of water and soap, in case of
isocyanate Mathulanadinhanyi diisocyanate modified	Ingestion Binse the mouth thoroughly with water.	

Ingestion Rinse the mouth thoroughly with water. Do not induce vomiting - give copious water to drink. Consult doctor immediately.

Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used. Dibutyltin diaurate 4,4'-methylenediphenyl diisocyanate Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate Methylenediphenyl diisocyanate, modified



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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II	WEL-TWA: 0,02 mg		WEL-STEL: 0,07 mg		anates		%:5-15
Revision date / version: 11.09.2019 / 0011 Replacing version dated / version: 29.03.2019 / 0010	all (as -NCO))		all (as -NCO))				
Valid from: 11.09.2019	Monitoring procedures		O 16702 (Workplace a ocyanate groups in air	ir quality – using 2-(1-r	determina nethoxypł	tion of total henylpipera	zine and
PDF print date: 12.09.2019 ferax 20-1K-PUR-Konstruktionsklebstoff		- liq M	uid chromatography) - DHS 25/3 (Organic iso	2001 cvanates in	air – Lab	oratory met	hod using
4.2 Most important symptoms and effects, both acute and delayed		sa	mpling either onto 2-(1	- methoxyp	henylpipe	erazine coate	ed glass
If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.		an	re filters followed by se alysis using high perfo	rmance liqu	uid chroma	atography) -	rs and - 1999 -
The following may occur: Dermatitis (skin inflammation)	BMGV: 1 umol isocy	- El anate-derived diamine/r	J project BC/CEN/ENT		2-16 card nformatior		
Drying of the skin. Allergic contact eczema	(At the end of the period					(as -NCO))	
Discoloration of the skin	GB Chemical Nam		ss of 4,4'-methylenedip		cyanate a	nd o-(p-	Content
Irritant to mucosa of the nose and throat Coughing	WEL-TWA: 0,02 mg	/m3 (Isocyanates,	nzyl)phenyl isocyanate WEL-STEL: 0,07 mg	e I/m3 (Isocya	anates,		%:5-15
Headaches Effect on the central nervous system	all (as -NCO)) Monitoring procedures		all (as -NCO))				
Asthmatic symptoms	BMGV: 1 µmol isocy (At the end of the period	anate-derived diamine/r			nformation		
In case of sensitivity, concentrations below the limit value may already result in asthmatic symptoms. Respiratory distress					nates, all	(as -NCO))	
In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours. 4.3 Indication of any immediate medical attention and special treatment needed	GB Chemical Nam	e Methylenedip	henyl diisocyanate, m	odified			Content %:5-15
In case of irritation of the lungs, perform first-aid with controlled-dosage aerosol dexamethasone.	WEL-TWA: 0,02 mg all (as -NCO))		WEL-STEL: 0,07 mg all (as -NCO))	/m3 (Isocya	anates,		
Pulmonary oedema prophylaxis Medical supervision necessary due to possibility of delayed reaction.	Monitoring procedures	: M	DHS 25/3 (Organic iso				
SECTION 5: Firefighting measures		fib	mpling either onto 2-(1 re filters followed by se	olvent deso	rption or ir	nto impinger	rs and
		- an IS	alysis using high perfo O 16702 (Workplace a	rmance liqu ir quality –	uid chroma determina	atography) - ation of total	- 1999
5.1 Extinguishing media		iso	ocyanate groups in air uid chromatography) -	using 2-(1-r			
Suitable extinguishing media		anate-derived diamine/r	nol creatinine in urine		nformatior	n:	
CO2 Extinction powder	(At the end of the period						
Foam	GB Chemical Nam	e Dibutyltin dila	lurate				Content %:0,1-
Water jet spray Unsuitable extinguishing media		2 (Ca) (tia					<0,25
High volume water jet	WEL-TWA: 0,1 mg/r compounds, organic)		WEL-STEL: 0,2 mg/ compounds, organic)	າາວ (ວາາ) (tiñ			
5.2 Special hazards arising from the substance or mixture In case of fire the following can develop:	Monitoring procedures BMGV:	:		Other i	nformatior	n: Sk (Sn)	(tin
Oxides of carbon Oxides of nitrogen					unds, orga		
Isocyanates	GB Chemical Nam	e Silica, amorp	hous	1			Content
Hydrocyanic acid (hydrogen cyanide) Toxic gases							%:
Danger of bursting (explosion) when heated 5.3 Advice for firefighters	WEL-TWA: 6 mg/m3 2,4 mg/m3 (resp. dust		WEL-STEL:				
In case of fire and/or explosion do not breathe fumes.	Monitoring procedures BMGV:			Other i	nformatior	n:	
Protective respirator with independent air supply. According to size of fire		e Calcium carb	opoto			1	Content
Full protection, if necessary. Cool container at risk with water.	GB Chemical Nam						%:
Dispose of contaminated extinction water according to official regulations.	WEL-TWA: 4 mg/m3 10 mg/m3 (total inhala		WEL-STEL:				
SECTION 6: Accidental release measures	Monitoring procedures	:					
	BMGV:			Other in	nformatior	n:	
	BMGV:			Other in	nformatior	n:	
6.1 Personal precautions, protective equipment and emergency procedures		nyl diisocyanate		Other in	nformatio	n:	
6.1 Personal precautions, protective equipment and emergency procedures Ensure sufficient supply of air. Avoid inhalation, and contact with eyes or skin.	BMGV: 4,4'-methylenedipher Area of application	Exposure route /	Effect on	Descri	Valu	n: Unit	Note
6.1 Personal precautions, protective equipment and emergency procedures Ensure sufficient supply of air. Avoid inhalation, and contact with eyes or skin. If applicable, caution - risk of slipping.	4,4'-methylenedipher	Exposure route / Environmental compartment	Effect on health	Descri ptor			Note
<ul> <li>6.1 Personal precautions, protective equipment and emergency procedures Ensure sufficient supply of air. Avoid inhalation, and contact with eyes or skin. If applicable, caution - risk of slipping.</li> <li>6.2 Environmental precautions If leakage occurs, dam up.</li> </ul>	4,4'-methylenedipher	Exposure route / Environmental compartment Environment -		Descri	Valu		Note
6.1 Personal precautions, protective equipment and emergency procedures     Ensure sufficient supply of air.     Avoid inhalation, and contact with eyes or skin.     If applicable, caution - risk of slipping.     6.2 Environmental precautions     If leakage occurs, dam up.     Resolve leaks if this possible without risk.     Prevent surface and ground-water infiltration, as well as ground penetration.	4,4'-methylenedipher	Exposure route / Environmental compartment Environment - freshwater Environment -		Descri ptor	Valu e	Unit	Note
6.1 Personal precautions, protective equipment and emergency procedures Ensure sufficient supply of air. Avoid inhalation, and contact with eyes or skin. If applicable, caution - risk of slipping.     6.2 Environmental precautions If leakage occurs, dam up. Resolve leaks if this possible without risk. Prevent surface and ground-water infiltration, as well as ground penetration. Prevent from entering drainage system.	4,4'-methylenedipher	Exposure route / Environmental compartment Environment - freshwater Environment - marine Environment -		Descri ptor PNEC	Valu e 1	Unit mg/l	Note
6.1 Personal precautions, protective equipment and emergency procedures Ensure sufficient supply of air. Avoid inhalation, and contact with eyes or skin. If applicable, caution - risk of slipping. 6.2 Environmental precautions If leakage occurs, dam up. Resolve leaks if this possible without risk. Prevent surface and ground-water infiltration, as well as ground penetration. Prevent surface and ground-water infiltration, as well as ground penetration. Prevent from entering drainage system. If accidental entry into drainage system occurs, inform responsible authorities. 6.3 Methods and material for containment and cleaning up	4,4'-methylenedipher	Exposure route / Environmental compartment Environment - freshwater Environment - marine		Descri ptor PNEC PNEC	Valu e 1 0,1	Unit mg/l mg/l	Note
<ul> <li>6.1 Personal precautions, protective equipment and emergency procedures Ensure sufficient supply of air. Avoid inhalation, and contact with eyes or skin. If applicable, caution - risk of slipping.</li> <li>6.2 Environmental precautions If leakage occurs, dam up. Resolve leaks if this possible without risk. Prevent surface and ground-water infiltration, as well as ground penetration. Prevent from entering drainage system. If accidental entry into drainage system occurs, inform responsible authorities. 6.3 Methods and material for containment and cleaning up Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13.</li> </ul>	4,4'-methylenedipher	Exposure route / Environmental compartment Environment - freshwater Environment - marine Environment - sewage treatment		Descri ptor PNEC PNEC	Valu e 1 0,1	Unit mg/l mg/l mg/l	Note
6.1 Personal precautions, protective equipment and emergency procedures Ensure sufficient supply of air.     Avoid inhalation, and contact with eyes or skin.     If applicable, caution - risk of slipping.     6.2 Environmental precautions     If leakage occurs, dam up.     Resolve leaks if this possible without risk.     Prevent surface and ground-water infiltration, as well as ground penetration.     Prevent from entering drainage system.     If accidental entry into drainage system.     If accidental entry into drainage system.     Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and	4,4'-methylenedipher	Exposure route / Environmental compartment Environment - freshwater Environment - sewage treatment plant Environment - soil Environment - soil		Descri ptor PNEC PNEC PNEC	Valu e 1 0,1 1	Unit mg/l mg/l mg/l	Note
<ul> <li>6.1 Personal precautions, protective equipment and emergency procedures Ensure sufficient supply of air. Avoid inhalation, and contact with eyes or skin. If applicable, caution - risk of slipping.</li> <li>6.2 Environmental precautions If leakage occurs, dam up. Resolve leaks if this possible without risk. Prevent surface and ground-water infiltration, as well as ground penetration. Prevent from entering drainage system occurs, inform responsible authorities. 6.3 Methods and material for containment and cleaning up Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13. Allow to stand for a few days in an unclosed container until reaction no longer occurs. Keep moist. Do not close packing drum.</li> </ul>	4,4'-methylenediphee Area of application	Exposure route / Environmental compartment Environment - freshwater Environment - sewage treatment plant Environment - soil Environment - soil Environment - sporadic (intermittent) release	health	Descri ptor PNEC PNEC PNEC PNEC PNEC	Valu e 1 0,1 1 1 10	Unit mg/l mg/l mg/kg dw mg/l	Note
<ul> <li>6.1 Personal precautions, protective equipment and emergency procedures Ensure sufficient supply of air. Avoid inhalation, and contact with eyes or skin. If applicable, caution - risk of slipping.</li> <li>6.2 Environmental precautions If leakage occurs, dam up. Resolve leaks if this possible without risk. Prevent surface and ground-water infiltration, as well as ground penetration. Prevent from entering drainage system. If accidental entry into drainage system. If accidental entry into drainage system occurs, inform responsible authorities.</li> <li>6.3 Methods and material for containment and cleaning up Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13. Allow to stand for a few days in an unclosed container until reaction no longer occurs. Keep moist. Do not close packing drum. CO2 formation in closed tanks causes pressure to rise. 6.4 Reference to other sections</li> </ul>	4,4'-methylenediphee Area of application	Exposure route / Environmental compartment Environment - freshwater Environment - marine Environment - sewage treatment plant Environment - soil Environment - soil Environment - sporadic (intermittent) release Human - oral	health health Short term, systemic effects	Descri ptor PNEC PNEC PNEC PNEC PNEC DNEL	Value           1           0,1           1           1           20	Unit mg/l mg/l mg/kg dw mg/l mg/kg bw/day	Note
<ul> <li>6.1 Personal precautions, protective equipment and emergency procedures Ensure sufficient supply of air. Avoid inhalation, and contact with eyes or skin. If applicable, caution - risk of slipping.</li> <li>6.2 Environmental precautions If leakage occurs, dam up. Resolve leaks if this possible without risk. Prevent surface and ground-water infiltration, as well as ground penetration. Prevent from entering drainage system. If accidental entry into drainage system. If accidental entry into drainage system occurs, inform responsible authorities.</li> <li>6.3 Methods and material for containment and cleaning up Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13. Allow to stand for a few days in an unclosed container until reaction no longer occurs. Keep moist. Do not close packing drum. CO2 formation in closed tanks causes pressure to rise. 6.4 Reference to other sections For personal protective equipment see Section 8 and for disposal instructions see Section 13.</li> </ul>	4,4'-methylenediphee Area of application	Exposure route / Environmental compartment Environment - freshwater Environment - sewage treatment plant Environment - soil Environment - soil Environment - sporadic (intermittent) release	health health Short term, systemic effects Short term,	Descri ptor PNEC PNEC PNEC PNEC PNEC	Valu e 1 0,1 1 1 10	Unit mg/l mg/l mg/kg dw mg/l mg/kg	Note
<ul> <li>6.1 Personal precautions, protective equipment and emergency procedures Ensure sufficient supply of air. Avoid inhalation, and contact with eyes or skin. If applicable, caution - risk of slipping.</li> <li>6.2 Environmental precautions If leakage occurs, dam up. Resolve leaks if this possible without risk. Prevent surface and ground-water infiltration, as well as ground penetration. Prevent from entering drainage system. If accidental entry into drainage system. If accidental entry into drainage system occurs, inform responsible authorities.</li> <li>6.3 Methods and material for containment and cleaning up Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13. Allow to stand for a few days in an unclosed container until reaction no longer occurs. Keep moist. Do not close packing drum. CO2 formation in closed tanks causes pressure to rise. 6.4 Reference to other sections</li> </ul>	4,4'-methylenediphee Area of application	Exposure route / Environmental compartment Environment - freshwater Environment - marine Environment - sewage treatment plant Environment - soil Environment - soil Environment - sporadic (intermittent) release Human - oral	health health Short term, systemic effects Short term, local effects Short term,	Descri ptor PNEC PNEC PNEC PNEC PNEC DNEL	Value           1           0,1           1           1           20	Unit mg/l mg/l mg/kg dw mg/l mg/kg bw/day mg/cm 2 mg/kg	Note
<ul> <li>6.1 Personal precautions, protective equipment and emergency procedures Ensure sufficient supply of air.         Avoid inhalation, and contact with eyes or skin.         If applicable, caution - risk of slipping.         6.2 Environmental precautions         If leakage occurs, dam up.         Resolve leaks if this possible without risk.         Prevent surface and ground-water infiltration, as well as ground penetration.         Prevent from entering drainage system.         If accidental entry into drainage system.         If accidental entry into drainage system.         If accidental entry into drainage system.         Soak up with absorbent material if or containment and cleaning up         Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and         dispose of according to Section 13.         Allow to stand for a few days in an unclosed container until reaction no longer occurs.         Keep moist.         Do not close packing drum.         CO2 formation in closed tanks causes pressure to rise.         <b>6.4 Reference to other sections</b>         For personal protective equipment see Section 8 and for disposal instructions see Section 13.     </li> </ul>	4,4'-methylenediphee Area of application	Exposure route / Environmental compartment Environment - freshwater Environment - marine Environment - sewage treatment plant Environment - soil Environment - soil Environment - sporadic (intermittent) release Human - oral Human - dermal	health health Short term, systemic effects Short term, local effects Short term, systemic effects Short term,	Descri ptor PNEC PNEC PNEC PNEC PNEC DNEL	Value           1           0,1           1           10           20           17,2	Unit mg/l mg/l mg/kg dw mg/kg bw/day mg/kg bw/day	Note
6.1 Personal precautions, protective equipment and emergency procedures Ensure sufficient supply of air.     Avoid inhalation, and contact with eyes or skin.     If applicable, caution - risk of slipping.     6.2 Environmental precautions     If leakage occurs, dam up.     Resolve leaks if this possible without risk.     Prevent surface and ground-water infiltration, as well as ground penetration.     Prevent from entering drainage system.     If accidential entry into drainage system.     Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and     dispose of according to Section 13.     Allow to stand for a few days in an unclosed container until reaction no longer occurs.     Keep moist.     Do not close packing drum.     CO2 formation in closed tanks causes pressure to rise.     6.4 Reference to other sections     For personal protective equipment see Section 8 and for disposal instructions see Section 13.     SECTION 7: Handling and storage     In addition to information given in this section, relevant information can also be found in section 8 and 6.1.     7.1 Precautions for safe handling	4,4'-methylenedipher Area of application	Exposure route / Environmental compartment Environment - freshwater Environment - marine Environment - sewage treatment plant Environment - soil Environment - soil Environment - soil Environment - soil Human - dermal Human - dermal	health health Short term, systemic effects Short term, local effect Short term, local effect Short term, local effect Shor	Descri ptor PNEC PNEC PNEC PNEC PNEC DNEL DNEL	Value           1           0,1           1           0,1           1           10           10           20           17,2           25	Unit mg/l mg/l mg/l mg/kg dw mg/l mg/kg bw/day mg/cm mg/kg bw/day	Note
6.1 Personal precautions, protective equipment and emergency procedures Ensure sufficient supply of air.     Avoid inhalation, and contact with eyes or skin.     If applicable, caution - risk of slipping.     6.2 Environmental precautions     If leakage occurs, dam up.     Resolve leaks if this possible without risk.     Prevent surface and ground-water infiltration, as well as ground penetration.     Prevent from entering drainage system.     If accidental entry into drainage system occurs, inform responsible authorities.     6.3 Methods and material for containment and cleaning up     Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and     dispose of according to Section 13.     Allow to stand for a few days in an unclosed container until reaction no longer occurs.     Keep moist.     Do not close packing drum.     CO2 formation in closed tanks causes pressure to rise.     6.4 Reference to other sections     For personal protective equipment see Section 8 and for disposal instructions see Section 13.     Im addition to information given in this section, relevant information can also be found in section 8 and 6.1.     7.1 Precautions for safe handling     7.1.1 General recommendations	4,4'-methylenedipher Area of application Consumer Consumer Consumer Consumer Consumer Consumer	Exposure route / Environmental compartment Environment - freshwater Environment - sewage treatment plant Environment - soil Environment - soil Environment - soil Environment - soil Human - oral Human - dermal Human - dermal Human - inhalation Human - inhalation	health he	Descri ptor PNEC PNEC PNEC PNEC PNEC DNEL DNEL DNEL DNEL	Value           1           0,1           1           20           17,2           25           0,05	Unit mg/l mg/l mg/kg dw mg/kg bw/day mg/kg bw/day mg/kg bw/day mg/m3	Note
6.1 Personal precautions, protective equipment and emergency procedures Ensure sufficient supply of air.     Avoid inhalation, and contact with eyes or skin.     If applicable, caution - risk of slipping.     6.2 Environmental precautions     If leakage occurs, dam up.     Resolve leaks if this possible without risk.     Prevent surface and ground-water infiltration, as well as ground penetration.     Prevent from entering drainage system.     If accidential entry into drainage system.     If accidentiation in closed tanks causes pressure to rise.     If Aceference to other sections     For personal protective equipment see Section 8 and for disposal instructions see Section 13.     If accidential entry into acciden	4,4'-methylenediphee Area of application	Exposure route / Environmental compartment Environment - freshwater Environment - sewage treatment plant Environment - soradic (intermittent) release Human - oral Human - dermal Human - dermal Human - inhalation Human - inhalation	health he	Descri ptor PNEC PNEC PNEC PNEC PNEC DNEL DNEL DNEL DNEL DNEL	Value           1           0,1           1           0           1           10           20           17,2           25           0,05           0,05           0,02	Unit mg/l mg/l mg/kg dw mg/kg bw/day mg/kg bw/day mg/kg bw/day mg/m3 mg/m3	Note
6.1 Personal precautions, protective equipment and emergency procedures Ensure sufficient supply of air.     Avoid inhalation, and contact with eyes or skin.     If applicable, caution - risk of slipping.     6.2 Environmental precautions     If leakage occurs, dam up.     Resolve leaks if this possible without risk.     Prevent surface and ground-water infiltration, as well as ground penetration.     Prevent surface and ground-water infiltration, as well as ground penetration.     Prevent surface and ground-water infiltration, as well as ground penetration.     Prevent surface and ground-water infiltration, as well as ground penetration.     Prevent surface and ground-water infiltration, as well as ground penetration.     Prevent surface and ground-water infiltration, as well as ground penetration.     Prevent surface and ground-water infiltration, as well as ground penetration.     Prevent surface and ground-water infiltration, as well as ground penetration.     Prevent surface and ground-water infiltration, as well as ground penetration.     Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and     dispose of according to Section 13.     Allow to stand for a few days in an unclosed container until reaction no longer occurs.     Keep moist.     Do not close packing drum.     CO2 formation in closed tanks causes pressure to rise.     Soak Reference to other sections     For personal protective equipment see Section 8 and for disposal instructions see Section 13.     SECTION 7: Handling and storage      In addition to information given in this section, relevant information can also be found in section 8 and 6.1.     7.1 Precautions for safe handling     T.1 General recommendations     Ensure good ventilation.     Avoid inhalation of the vapours.     If applicable, suction measures at the workstation or on the processing machine necessary.	4,4'-methylenedipher Area of application	Exposure route / Environmental compartment Environment - freshwater Environment - marine Environment - sewage treatment plant Environment - soradic (intermittent) release Human - oral Human - dermal Human - dermal Human - inhalation Human - inhalation Human - inhalation	health he	Descri ptor PNEC PNEC PNEC PNEC PNEC DNEL DNEL DNEL DNEL DNEL DNEL	Value           1           0,1           1           0           1           10           20           17,2           25           0,05           0,05           0,02           5           0,02           5	Unit mg/l mg/l mg/kg dw mg/kg bw/day mg/kg bw/day mg/kg bw/day mg/m3	Note
6.1 Personal precautions, protective equipment and emergency procedures Ensure sufficient supply of air.     Avoid inhalation, and contact with eyes or skin.     If applicable, caution - risk of slipping.     6.2 Environmental precautions     If leakage occurs, dam up.     Resolve leaks if this possible without risk.     Prevent surface and ground-water infiltration, as well as ground penetration.     Prevent from entering drainage system.     If accidental entry into drainage system.     If accidental entry into drainage system occurs, inform responsible authorities.     6.3 Methods and material for containment and cleaning up     Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and     dispose of according to Section 13.     Allow to stand for a few days in an unclosed container until reaction no longer occurs.     Keep moist.     Do not close packing drum.     CO2 formation in closed tanks causes pressure to rise.     6.4 Reference to other sections     For personal protective equipment see Section 8 and for disposal instructions see Section 13.     If addition to information given in this section, relevant information can also be found in section 8 and 6.1.     7.1 Precautions for safe handling     Avoid inhalation of the vapours.     If applicable, suction measures at the workstation or on the processing machine necessary.     Avoid contact with products of this type in case of allergies, asthma und chronic respiratory tract disorders.	4,4'-methylenedipher Area of application Consumer Consumer Consumer Consumer Consumer Consumer Consumer Consumer Consumer Consumer Consumer Consumer	Exposure route / Environmental compartment Environment - freshwater Environment - sewage treatment plant Environment - soradic (intermittent) release Human - oral Human - dermal Human - dermal Human - inhalation Human - inhalation	health he	Descri ptor PNEC PNEC PNEC PNEC PNEC DNEL DNEL DNEL DNEL DNEL	Value           1           0,1           1           1           20           17,2           25           0,05           0,02           5           0,02	Unit mg/l mg/l mg/kg dw mg/kg bw/day mg/kg bw/day mg/kg bw/day mg/m3 mg/m3	Note
6.1 Personal precautions, protective equipment and emergency procedures Ensure sufficient supply of air.     Avoid inhalation, and contact with eyes or skin.     If applicable, caution - risk of slipping.     6.2 Environmental precautions     If leakage occurs, dam up.     Resolve leaks if this possible without risk.     Prevent surface and ground-water infiltration, as well as ground penetration.     Prevent from entering drainage system.     If accidential entry into drainage system.     If applicable, acciding the accidential entry into drainage system.     If applicable, suction measures at the workstation or on the processing machine necessary.     Avoid contact with eyes or skin.     No contact with products of this type in case of allergies, asthma und chronic respiratory tract disorders.     Easting, drinking, smoking, as well as food-storage, is prohibited in work-room.     Observed directions encounced on the section rule.	4,4'-methylenedipher Area of application Consumer Consumer Consumer Consumer Consumer Consumer Consumer Consumer Consumer Workers /	Exposure route / Environmental compartment Environment - freshwater Environment - marine Environment - sewage treatment plant Environment - soradic (intermittent) release Human - oral Human - dermal Human - dermal Human - inhalation Human - inhalation Human - inhalation	health he	Descri ptor PNEC PNEC PNEC PNEC PNEC DNEL DNEL DNEL DNEL DNEL DNEL	Value           1           0,1           1           0           1           10           20           17,2           25           0,05           0,05           0,02           5           0,02           5	Unit mg/l mg/l mg/kg dw/mg/l mg/kg bw/day mg/kg bw/day mg/kg bw/day mg/m3 mg/m3 mg/m3 mg/m3 mg/m3	Note
6.1 Personal precautions, protective equipment and emergency procedures Ensure sufficient supply of air.     Avoid inhalation, and contact with eyes or skin.     If applicable, caution - risk of slipping.     6.2 Environmental precautions     If leakage occurs, dam up.     Resolve leaks if this possible without risk.     Prevent surface and ground-water infiltration, as well as ground penetration.     Prevent from entering drainage system.     If accidential entry into drainage system occurs, inform responsible authorities.     6.3 Methods and material for containment and cleaning up     Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and     dispose of according to Section 13.     Allow to stand for a few days in an unclosed container until reaction no longer occurs.     Keep moist.     Do not close packing drum.     CO2 formation in closed tanks causes pressure to rise.     6.4 Reference to other sections     For personal protective equipment see Section 8 and for disposal instructions see Section 13.     SECTION 7: Handling and storage     In addition to information given in this section, relevant information can also be found in section 8 and 6.1.     7.1 Precautions for safe handling     T.11 General recommendations     Ensure good ventilation.     Avoid inhalation of the vapours.     If aplicable, suctoin measures at the workstation or on the processing machine necessary.     Avoid contact with products of this type in case of allergies, asthma und chronic respiratory tract disorders.     Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.     Observe directions on label and instructions for use.	4,4'-methylenedipher Area of application Consumer Consumer Consumer Consumer Consumer Consumer Consumer Consumer Consumer Consumer Workers / employees Workers /	Exposure route / Environmental compartment Environment - freshwater Environment - marine Environment - sewage treatment plant Environment - sooradic (intermittent) release Human - oral Human - dermal Human - dermal Human - inhalation Human - inhalation Human - inhalation Human - inhalation Human - inhalation	health he	Descri ptor PNEC PNEC PNEC PNEC PNEC DNEL DNEL DNEL DNEL DNEL DNEL DNEL	Value           1           0,1           1           1           10           20           17,2           25           0,05           0,05           0,02           5           28,7	Unit mg/l mg/l mg/kg dw mg/l mg/kg bw/day mg/cm 2 mg/kg bw/day mg/cm 3 mg/m3 mg/m3 mg/m3	Note
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<ul> <li>6.1 Personal precautions, protective equipment and emergency procedures Ensure sufficient supply of air.         Avoid inhalation, and contact with eyes or skin.         If applicable, caution - risk of slipping.         6.2 Environmental precautions         If leakage occurs, dam up.         Resolve leaks if this possible without risk.         Prevent surface and ground-water infiltration, as well as ground penetration.         Prevent from entering drainage system         If accidental entry into drainage system.         If accidental entry into drainage system.         If accidental entry into drainage system.         If accidental entry into drainage system occurs, inform responsible authorities.         6.3 Methods and material for containment and cleaning up         Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and         dispose of according to Section 13.         Allow to stand for a few days in an unclosed container until reaction no longer occurs.         Keep moist.         Do not close packing drum.         CO2 formation in closed tanks causes pressure to rise.         6.4 Reference to other sections         For personal protective equipment see Section 8 and for disposal instructions see Section 13. In addition to information given in this section, relevant information can also be found in section 8 and 6.1. 7.1 Precautions for safe handling Avoid inhalation of the vapours.         If applicable, suction measures at the workstation or on the processing machine necessary.         Avoid wentilation.         Avoid wentilation.         Avoid wentilation.         Avoid subale and instructions to use.         Use working methods according to operating instructions. Berue good ventilation.         Avoid contact with eyee or skin.         No contact with eyee or skin.         No contact with eyee or skin.         Avoid contact with eyee or skin.         Avoid contact the</li></ul>	4,4'-methylenedipher Area of application Consumer Consumer Consumer Consumer Consumer Consumer Consumer Consumer Consumer Consumer Consumer Consumer Consumer Workers / employees Workers / employees Workers / employees	Exposure route / Environmental compartment Environment - freshwater Environment - marine Environment - sewage treatment plant Environment - soradic (intermittent) release Human - oral Human - dermal Human - dermal Human - inhalation Human - inhalation Human - dermal Human - dermal Human - inhalation Human - dermal Human - dermal Human - dermal Human - dermal Human - dermal	health he	Descri ptor PNEC PNEC PNEC PNEC PNEC DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL	Value           1           0,1           1           1           10           20           17,2           25           0,05           0,05           0,05           0,05           0,05           0,05           0,05           0,02           5           0,01	Unit mg/l mg/l mg/l mg/kg dw/mg/l mg/kg bw/day mg/kg bw/day mg/m3 mg/m3 mg/m3 mg/m3 mg/m3 mg/m3	Note
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<ul> <li>6.1 Personal precautions, protective equipment and emergency procedures Ensure sufficient supply of air.         Avoid inhalation, and contact with eyes or skin.         If applicable, caution - risk of slipping.         6.2 Environmental precautions         If leakage occurs, dam up.         Resolve leaks if this possible without risk.         Prevent surface and ground-water infiltration, as well as ground penetration.         Prevent nore metering drainage system         If accidental entry into drainage system.         If accidental entry into drainage system occurs, inform responsible authorities.         6.3 Methods and material for containment and cleaning up         Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and         dispose of according to Section 13.         Allow to stand for a few days in an unclosed container until reaction no longer occurs.         Keep moist.         Do not close packing drum.         CO2 formation in closed tanks causes pressure to rise.         6.4 Reference to other sections         For personal protective equipment see Section 8 and for disposal instructions see Section 13. SECTION 7: Handling and storage         In addition to information given in this section, relevant information can also be found in section 8 and 6.1. 7.1 Precautions for safe handling Avoid inhalation of the vapours.         If applicable, suction measures at the workstation or on the processing machine necessary.         Avoid wentilation.         Avoid wentilation.         Avoid subal and instructions to use.         Use working methods according to operating instructions.         Billicable, suction measures at the workstation or on the processing machine necessary.         Avoid contact with eyee or skin.         No contact with eyee or skin.         No contact with eyee or skin.         Xotie on albel and instructions true.         Use working methods according to operating ins</li></ul>	4,4'-methylenedipher     Area of application     Area of application     Consumer     Consumer     Consumer     Consumer     Consumer     Consumer     Consumer     Consumer     Consumer     Workers /     employees     Wor	Exposure route / Environmental compartment Environment - freshwater Environment - marine Environment - sewage treatment plant Environment - soradic (intermittent) release Human - oral Human - dermal Human - dermal Human - inhalation Human - inhalation Human - dermal Human - dermal Human - inhalation Human - dermal Human - dermal Human - dermal Human - dermal Human - dermal	health he	Descri ptor PNEC PNEC PNEC PNEC PNEC DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL	Value           1           0,1           1           1           10           20           17,2           25           0,05           0,05           0,05           0,05           0,05           0,05           0,05           0,02           5           0,01	Unit mg/l mg/l mg/l mg/kg dw/mg/l mg/kg bw/day mg/kg bw/day mg/m3 mg/m3 mg/m3 mg/m3 mg/m3 mg/m3	Note
<ul> <li>6.1 Personal precautions, protective equipment and emergency procedures Ensure sufficient supply of air.         Avoid inhalation, and contact with eyes or skin.         If applicable, caution - risk of slipping.         6.2 Environmental precautions         If leakage occurs, dam up.         Resolve leaks if this possible without risk.         Prevent surface and ground-water infiltration, as well as ground penetration.         Prevent surface and ground-water infiltration, as well as ground penetration.         Prevent from entering drainage system.         If accidential entry into drainage system occurs, inform responsible authorities.         6.3 Methods and material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and         dispose of according to Section 13.         Allow to stand for a few days in an unclosed container until reaction no longer occurs.         Keep moist.         Do not close packing drum.         CO2 formation in closed tanks causes pressure to rise.         6.4 Reference to other sections         For personal protective equipment see Section 8 and for disposal instructions see Section 13.         SECTION 7: Handling and storage         In addition to information given in this section, relevant information can also be found in section 8 and 6.1.         7.1 Precautions for safe handling         T.1 General recommendations         Ensure god ventilation.         Avoid contact with eyes or skin.         No contact with eyes or skin.         No contact with eyes or general in structions for use.         Avoid contact the east of the structions for use.         Contact of the type in case of allergies, asthma und chronic respiratory tract disorders.         Eating drinking, smoking, as well as food-storage, is prohibited in work-room.         Observe directions on label and instructions for use.         Use working methods according to operating instructions.         Conditions for safe storage, is prohibited in work-room.         Observe directions on label</li></ul>	4,4'-methylenedipher Area of application Consumer Consume	Exposure route / Environmental compartment Environment - freshwater Environment - marine Environment - sewage treatment plant Environment - soradic (intermittent) release Human - oral Human - dermal Human - dermal Human - inhalation Human - inhalation Human - inhalation Human - dermal Human - dermal Human - dermal Human - inhalation Human - dermal Human - inhalation Human - inhalation Human - inhalation Human - inhalation Human - inhalation Human - inhalation	health he	Descri ptor PNEC PNEC PNEC PNEC PNEC DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL	Value           1           0,1           1           1           10           20           17,2           25           0,05           0,05           0,02           5           28,7           50           0,1           0,1           0,05	Unit mg/l mg/l mg/l mg/kg dw mg/kg bw/day mg/m3 mg/m3 mg/m3 mg/m3 mg/m3 mg/m3 mg/m3 mg/m3 mg/m3	Note
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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 11.09.2019 / 0011 Replacing version tatle / version: 11.05.2019 / 0011 Valid from: 11.09.2019 PDF print date: 12.09.2019 ferax 20-1K-PUR-Konstruktionsklebstoff

Area of application	Exposure route / Environmental compartment	Effect on health	Descri ptor	Valu e	Unit	Note
	Environment - sporadic		PNEC	9	mg/l	
	(intermittent) release Environment - marine		PNEC	0,09	mg/l	
	Environment - sediment, marine		PNEC	0,08 3	mg/l	
	Environment - soil		PNEC	0,81	mg/l	
	Environment - freshwater		PNEC	0,9	mg/l	
	Environment - sediment, freshwater		PNEC	0,83	mg/l	
	Environment - sewage treatment plant		PNEC	740 0	mg/l	
Consumer	Human - oral	Long term, systemic effects	DNEL	25	mg/kg	
Consumer	Human - dermal	Long term, systemic effects	DNEL	25	mg/kg	
Consumer	Human - inhalation	Long term, local effects	DNEL	10	mg/m3	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	43,5	mg/m3	
Workers /	Human - inhalation	Long term,	DNEL	176	mg/m3	
employees		systemic effects				
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	50	mg/kg	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	20	mg/m3	

Dibutyltin dilaurate						
Area of application	Exposure route /	Effect on	Descri	Valu	Unit	Note
	Environmental compartment	health	ptor	е		
	Environment -		PNEC	0,05	mg/kg	
	sediment, freshwater				wet	
	Environment -		PNEC	0.00	weight mg/l	
	freshwater		FINEC	0,00	iiig/i	
	neonwater			3		
	Environment -		PNEC	0,00	mg/l	
	marine			004	-	
				6		
	Environment -		PNEC	0,00	mg/kg	
	sediment, marine			5	wet	
Consumer	Human - dermal	Short term.	DNEL	0,5	weight mg/kg	
Consumer	Human - German	systemic effects	DNEL	0,5	body	
					weight/	
					day	
Consumer	Human - inhalation	Short term,	DNEL	0,02	mg/m3	
		systemic effects				
Consumer	Human - oral	Short term,	DNEL	0,01	mg/kg	
		systemic effects			body weight/	
					day	
Consumer	Human - dermal	Long term,	DNEL	0,08	mg/kg	
		systemic effects		-,	body	
					weight/	
					day	
Consumer	Human - inhalation	Long term,	DNEL	0,00	mg/m3	
Consumer	Human - oral	systemic effects Long term,	DNEL	3 0,00	mg/kg	
Consumer	Human - orai	systemic effects	DINEL	2	body	
		systemic chects		2	weight/	
					day	
Workers /	Human - dermal	Short term,	DNEL	1	mg/kg	
employees		systemic effects			body	
					weight/	
Workers /	Human - inhalation	Short term.	DNEL	0,07	day mg/m3	
employees	riuman - innalation	systemic effects	DINEL	0,07	mg/ma	
Workers /	Human - dermal	Long term,	DNEL	0,2	mg/kg	
employees		systemic effects		-,=	body	
					weight/	
					day	
Workers /	Human - inhalation	Long term,	DNEL	0,01	mg/m3	
employees		systemic effects				

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).
 (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference

2017/2393/EU. | WELSTEL = Workplace Exposure time control on a specific definition of the specific def the goal of revision

### 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

Applies only if maximum permissible exposure values are listed here. Suitable assessment methods for reviewing the effectiveness of protection measures adopted include

metrological and non-metrological investigative techniques. These are specified by e.g. BS EN 14042. BS 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. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eve/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:

The beaking of the determined in accordance with EN 105251 were 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.

Filter 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 present

## **SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and ch	
Physical state:	Pastelike, Liquid
Colour:	According to specification
Odour:	Characteristic
Odour threshold:	Not determined
pH-value:	Not determined
Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	Not determined
Flash point:	Not determined
Evaporation rate:	Not determined
Flammability (solid, gas):	n.a.
Lower explosive limit:	Not determined
Upper explosive limit:	Not determined
Vapour pressure:	Not determined
Vapour density (air = 1):	Not determined
Density:	~1,52 g/ml (20°C)
Bulk density:	n.a.
Solubility(ies):	Not determined
Water solubility:	Insoluble
Partition coefficient (n-octanol/water):	Not determined
Auto-ignition temperature:	n.a.
Decomposition temperature:	Not determined
Viscosity:	67000 - 93000 mPas (25°C)
Explosive properties:	Product is not explosive.
Oxidising properties:	No
9.2 Other information	
Miscibility:	Not determined
Fat solubility / solvent:	Not determined
Conductivity:	Not determined
Surface tension:	Not determined
Solvents content:	Not determined

## **SECTION 10: Stability and reactivity**

10.1 Reactivity 10.2 Chemical stability Stable with proper storage and handling. 10.3 Possibility of hazardous reactions Exothermic reaction possible with: Alcohols Amines Bases Acids Water Developement of: Carbon dioxide CO2 formation in closed tanks causes pressure to rise. Pressure increase will result in danger of bursting. 10.4 Conditions to avoid See also section 7. Protect from humidity. Polymerisation due to high heat is possible. T > 260°C 10.5 Incompatible materials See also section Acids Bases Amines Alcohols Water



Safety data sheet accord Revision date / version: Replacing version dated Valid from: 11.09.2019	11.09.2019 / version: 2	/ 0011		06, Annex II			Specific target organ toxicity - repeated exposure (STOT-RE): Specific target organ	LOAE	0,2	mg/m 3	Rat	OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies) OECD 453	Aerosol, Analogou conclusio Aerosol,
PDF print date: 12.09.20 ferax 20-1K-PUR-Konstr 10.6 Hazardous de See also section 5.2	uktionskleb		ducts				toxicity - repeated exposure (STOT-RE):	LOAE	1		Rat	OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies)	Analogou conclusio
No decomposition when	used as dir	ected.					Specific target organ toxicity - single						Target organ(s):
				gical info	ormation		exposure (STOT-SE), inhalative:						respirator system, Irritation o the
11.1 Information of Possibly more information				(classification)	).								respirator tract
ferax 20-1K-PUR-Konst	truktionskl	ebstoff					Specific target organ						Target
Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes	toxicity - repeated exposure (STOT-RE),						organ(s): respirator
Acute toxicity, by oral						n.d.a.	inhalat.:						system, Positive
route: Acute toxicity, by						n.d.a.							Positive
dermal route:							Reaction mass of 4,4'-						
Acute toxicity, by inhalation:	ATE	>20	mg/l/ 4h			calculated value,	Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
						Vapours	Acute toxicity, by oral	LD50	> 10000	mg/k	Rat		
Skin corrosion/irritation:						n.d.a.	route: Acute toxicity, by	LD50	> 9400	g mg/k	Rabbit		
Serious eye						n.d.a.	dermal route:			g			
damage/irritation: Respiratory or skin						n.d.a.	Acute toxicity, by inhalation:	LC50	0,49	mg/l/ 4h	Rat		Mist, Dust:,
sensitisation:						n.u.a.	interestion						Does no
Germ cell						n.d.a.							conform with EU
mutagenicity: Carcinogenicity:						n.d.a.							classifica
Reproductive toxicity:						n.d.a.	Skin				Rabbit	OECD 404	n. Irritant
Specific target organ toxicity - single			1			n.d.a.	corrosion/irritation:				. cabot	(Acute Dermal	····
exposure (STOT-SE):												Irritation/Corrosio	
Specific target organ toxicity - repeated			1			n.d.a.	Respiratory or skin	-			Guinea	n) OECD 406 (Skin	Yes
exposure (STOT-RE):			1				sensitisation:				pig	Sensitisation)	(inhalatio
Aspiration hazard: Symptoms:		1				n.d.a. n.d.a.							and skin contact)
Other information:						Classificati	Germ cell				Salmonel	Regulation (EC)	Negative
						on according	mutagenicity:				la typhimuri	440/2008 B.13/B.14	
						to					um	(REVERSE	
						calculation procedure.						MUTATION TEST USING	
						procedure.						BACTERIA)	
4,4'-methylenedipheny		ate Value	Unit	Organia	Test method	Notes	Germ cell mutagenicity:				Rat	OECD 474 (Mammalian	Negative
Toxicity / effect	Endpo int	value	Unit	Organis m	Test method	notes	matagementy.					Erythrocyte	
Acute toxicity, by oral	LD50	>2000	mg/k	Rat	Regulation (EC)	Analogous						Micronucleus	
								1					
route:			g		440/2008 B.1	conclusion	Carcinogenicity:				Rat	Test) OECD 453	Carc. 2
				_	440/2008 B.1 (ACUTE ORAL TOXICITY)	conclusion	Carcinogenicity:				Rat	OECD 453 (Combined	Carc. 2
Acute toxicity, by	LD50	>9400	mg/k	Rabbit	440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402	conclusion Analogous	Carcinogenicity:				Rat	OECD 453 (Combined Chronic Toxicity/Carcinog	Carc. 2
Acute toxicity, by dermal route:			mg/k g	Rabbit	440/2008 B.1 (ACUTE ORAL TOXICITY)	conclusion Analogous conclusion	Carcinogenicity:				Rat	OECD 453 (Combined Chronic	Carc. 2
Acute toxicity, by dermal route: Acute toxicity, by	LD50 ATE	>9400	mg/k g mg/l/	Rabbit	440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal	Conclusion Analogous conclusion Aerosol,		socyanate,	modified		Rat	OECD 453 (Combined Chronic Toxicity/Carcinog	Carc. 2
Acute toxicity, by dermal route: Acute toxicity, by inhalation:	ATE	1,5	mg/k g mg/l/ 4h		440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity)	Analogous conclusion Aerosol, Expert judgement.	Carcinogenicity: Carcinogenicity: Methylenediphenyl diis Toxicity / effect	Endpo	modified Value	Unit	Organis	OECD 453 (Combined Chronic Toxicity/Carcinog	Carc. 2
Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by			mg/k g mg/l/ 4h mg/l/	Rabbit	440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403	Analogous conclusion Aerosol, Expert judgement. Aerosol,	Methylenediphenyl diis					OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies)	Notes
Acute toxicity, by dermal route: Acute toxicity, by inhalation:	ATE	1,5	mg/k g mg/l/ 4h		440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity)	Analogous conclusion Aerosol, Expert judgement. Aerosol, Does not conform	Methylenediphenyl diis Toxicity / effect	Endpo int	Value	Unit mg/k g	Organis m	OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral	Notes Analogo
Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by	ATE	1,5	mg/k g mg/l/ 4h mg/l/		440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation	Analogous conclusion Aerosol, Expert judgement. Aerosol, Does not conform with EU	Methylenediphenyl diis Toxicity / effect Acute toxicity, by oral	Endpo int	Value	mg/k	Organis m	OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies) Test method OECD 401	Notes Analogo conclusio
Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by inhalation:	ATE	1,5	mg/k g mg/l/ 4h mg/l/	Rat	440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity)	Analogous conclusion Aerosol, Expert judgement. Aerosol, Does not conform with EU classificatio n.	Methylenediphenyl diis Toxicity / effect Acute toxicity, by oral route:	Endpo int	Value	mg/k	Organis m Rat	OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal	Notes Analogo conclusio
Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skin	ATE	1,5	mg/k g mg/l/ 4h mg/l/		440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404	Analogous conclusion Aerosol, Expert judgement. Aerosol, Does not conform with EU classificatio n. Skin Irrit.	Methylenediphenyl diis Toxicity / effect Acute toxicity, by oral route: Skin	Endpo int	Value	mg/k	Organis m Rat	OECD 453 (Combined Chronic encity/Carcinog encity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404	Notes Analogo conclusio
Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by inhalation:	ATE	1,5	mg/k g mg/l/ 4h mg/l/	Rat	440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio	Analogous conclusion Aerosol, Expert judgement. Aerosol, Does not conform with EU classificatio n. Skin Irrit. 2, Analogous	Methylenediphenyl diis Toxicity / effect Acute toxicity, by oral route: Skin corrosion/irritation: Serious eye	Endpo int	Value	mg/k	Organis m Rat	OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405	Notes Analogo conclusio Skin Irrit.
Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skin corrosion/irritation:	ATE	1,5	mg/k g mg/l/ 4h mg/l/	Rat	440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n)	Analogous conclusion Aerosol, Expert judgement. Aerosol, Does not conform with EU classificatio n. Skin Irrit. 2, Analogous conclusion	Methylenediphenyl diis Toxicity / effect Acute toxicity, by oral route: Skin corrosion/irritation:	Endpo int	Value	mg/k	Organis m Rat Rabbit	OECD 453 (Combined Chronic enicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n)	Notes Analogo conclusio Skin Irrit.
Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skin	ATE	1,5	mg/k g mg/l/ 4h mg/l/	Rat	440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye	Analogous conclusion Aerosol, Expert judgement. Aerosol, Does not conform with EU classificatio n. Skin Irrit. 2, Analogous conclusion Not irritant, Analogous	Methylenediphenyl diis Toxicity / effect Acute toxicity, by oral route: Skin corrosion/irritation: Serious eye damage/irritation:	Endpo int	Value	mg/k	Organis m Rat Rabbit Rabbit	OECD 453 (Combined Chronic enicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio OECD 405 (Acute Eye	Notes Analogo conclusi Skin Irrit Eye Irrit.
Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye	ATE	1,5	mg/k g mg/l/ 4h mg/l/	Rat	440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 404 (Acute Eye Irritation/Corrosio	conclusion Analogous conclusion Expert judgement. Aerosol, Does not conform with EU classificatio n. Skin Irrit. 2, Analogous conclusion, Not irritant, Analogous conclusion,	Methylenediphenyl diis Toxicity / effect Acute toxicity, by oral route: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin	Endpo int	Value	mg/k	Organis m Rat Rabbit	OECD 453 (Combined Chronic roxicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio	Notes Analogo conclusid Skin Irrit Eye Irrit. Yes
Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye	ATE	1,5	mg/k g mg/l/ 4h mg/l/	Rat	440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye	Conclusion Analogous conclusion Aerosol, Expert Judgement. Aerosol, Does not conform with EU classification n. Skin Irrit. 2, Analogous conclusion Not irritant, Analogous conclusion, Does not conform	Methylenediphenyl diis Toxicity / effect Acute toxicity, by oral route: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation:	Endpo int	Value	mg/k	Organis m Rat Rabbit Rabbit Mouse Guinea	OECD 453 (Combined Chronic enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Inritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin	Notes Analogo conclusi Skin Irrit Eye Irrit. Yes (inhalatii Yes (ski
Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye	ATE	1,5	mg/k g mg/l/ 4h mg/l/	Rat	440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 404 (Acute Eye Irritation/Corrosio	Conclusion Analogous conclusion Expert judgement. Aerosol, Does not conform with EU classificatio n. Skin Irrit. 2, Analogous conclusion, Does not conform with EU with EU	Methylenediphenyl diis Toxicity / effect Acute toxicity, by oral route: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation:	Endpo int	Value	mg/k	Organis m Rat Rabbit Rabbit Mouse Guinea pig	OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin Sensitisation)	Notes Analogo conclusi Skin Irrit Eye Irrit. Yes (inhalatit Yes (skii contact)
Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye damage/irritation:	ATE	1,5	mg/k g mg/l/ 4h mg/l/	Rat Rabbit Rabbit	440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n)	conclusion Analogous conclusion Expert Judgement. Aerosol, Does not conform with EU classificatio n. Skin Irrit. 2, Analogous conclusion, Does not conclusion, Not irritant, Analogous conclusion, Does not conform with EU classificatio n.	Methylenediphenyl diis Toxicity / effect Acute toxicity, by oral route: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation:	Endpo int	Value	mg/k	Organis m Rat Rabbit Rabbit Mouse Guinea pig Salmonel Ia	OECD 453 (Combined Chronic roxicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin Sensitisation) Regulation (EC)	Notes Analogo conclusi Skin Irrit Eye Irrit. Yes (inhalatit Yes (skii contact)
Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin	ATE	1,5	mg/k g mg/l/ 4h mg/l/	Rat Rabbit Rabbit Guinea	440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n)	conclusion Analogous conclusion Expert judgement. Judgement. Aerosol, Does not conform with EU classificatio n. Skin Irrit. 2, Analogous conclusion Not irritant, Analogous conclusion, Does not conform with EU classificatio n. No (skin	Methylenediphenyl diis Toxicity / effect Acute toxicity, by oral route: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell	Endpo int	Value	mg/k	Organis m Rat Rabbit Rabbit Guinea pig Salmonel Ia typhimuri	OECD 453 (Combined Chronic enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 405 (Skin Sensitisation) Regulation (EC) 440/2008 B.13/B.14	Notes Analogo conclusie Skin Irrit. Eye Irrit. Yes (inhalatic Yes (skir contact)
Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin Respiratory or skin	ATE	1,5	mg/k g mg/l/ 4h mg/l/	Rat Rabbit Rabbit	440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin Sensitisation) OECD 406 (Skin	conclusion Analogous conclusion Expert judgement. Aerosol, Does not conform with EU classificatio n. Skin Irrit. 2, Analogous conclusion, Does not conform with EU classificatio n. Not irritant, Analogous conclusion, Does not conform with EU classificatio n. No (skin contact) Yes (skin	Methylenediphenyl diis Toxicity / effect Acute toxicity, by oral route: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell	Endpo int	Value	mg/k	Organis m Rat Rabbit Rabbit Mouse Guinea pig Salmonel Ia	OECD 453 (Combined Chronic enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin Sensitisation) Regulation (EC) 440/2008 B.13/B.14 (REVERSE MUTATION	Notes Analogou conclusic Skin Irrit. Eye Irrit. Yes (inhalatic Yes (skir
Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation:	ATE	1,5	mg/k g mg/l/ 4h mg/l/	Rat Rabbit Rabbit Guinea pig	440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin Sensitisation) OECD 429 (Skin Sensitisation -	Conclusion Analogous conclusion Aerosol, Expert judgement. Aerosol, Does not conform with EU classificatio n. Skin Irrit. 2, Analogous conclusion, Not irritant, Analogous conclusion, Does not conform with EU classificatio n. Not issificatio n. No (skin contact)	Methylenediphenyl diis Toxicity / effect Acute toxicity, by oral route: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell	Endpo int	Value	mg/k	Organis m Rat Rabbit Rabbit Guinea pig Salmonel Ia typhimuri	OECD 453 (Combined Chronic enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin Sensitisation) Regulation (EC) 440/2008 B 13/B.14 (REVERSE MUTATION TEST USING	Notes Analogo conclusi Skin Irrit Eye Irrit. Yes (inhalatit Yes (skii contact)
Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation:	ATE	1,5	mg/k g mg/l/ 4h mg/l/	Rat Rabbit Rabbit Guinea pig Mouse	440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin Sensitisation) OECD 406 (Skin	conclusion Analogous conclusion Expert judgement. Judgement. Aerosol, Dees not conform with EU classificatio n. Skin Irrit. 2, Analogous conclusion Not irritant, Analogous conclusion, Does not conform with EU classificatio n. No (skin contact) Yes (skin contact)	Methylenediphenyl diis           Toxicity / effect           Acute toxicity, by oral route:           Skin           corrosion/irritation:           Serious eye damage/irritation:           Respiratory or skin sensitisation:           Respiratory or skin sensitisation:           Germ cell	Endpo int	Value	mg/k	Organis m Rat Rabbit Rabbit Guinea pig Salmonel Ia typhimuri	OECD 453 (Combined Chronic enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 405 (Skin Sensitisation) Regulation (EC) 440/2008 B.13/B.14 (REVERSE MUTATION TEST USING BACTERIA) OECD 474	Notes Analogo conclusi Skin Irrit Eye Irrit. Yes (inhalati ves (ski contact) Negative
Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Respiratory or skin	ATE	1,5	mg/k g mg/l/ 4h mg/l/	Rat Rabbit Rabbit Guinea pig Mouse Guinea	440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin Sensitisation) OECD 429 (Skin Sensitisation)	conclusion Analogous conclusion Aerosol, Expert judgement. Aerosol, Does not conform with EU classificatio n. Skin Irrit. 2, Analogous conclusion, Not irritant, Analogous conclusion, Does not conform with EU classificatio n. No (kin contact) Yes (skin contact) Yes	Methylenediphenyl diis Toxicity / effect Acute toxicity, by oral route: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell mutagenicity:	Endpo int	Value	mg/k	Organis m Rat Rabbit Rabbit Mouse Guinea pig Salmonel Ia typhimuri um	OECD 453 (Combined Chronic enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Inritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin Sensitisation) Regulation (EC) 440/2008 B.13/B.14 (REVERSE MUTATION TEST USING BACTERIA) OECD 474 (Marmalian	Notes Analogo conclusie Skin Irrit. Eye Irrit. Yes (inhalatic Yes (skir contact)
Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye damage/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell	ATE	1,5	mg/k g mg/l/ 4h mg/l/	Rat Rabbit Rabbit Guinea pig Mouse Guinea pig Salmonel	440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin Sensitisation) OECD 429 (Skin Sensitisation) OECD 429 (Skin Sensitisation) OECD 429 (Skin OECD 429 (Skin Sensitisation) OECD 429 (Skin OECD 429 (Skin OECD 420 (Skin Sensitisation)	Conclusion Analogous conclusion Aerosol, Expert judgement. Aerosol, Does not conform with EU classification n. Skin Irrit. 2, Analogous conclusion, Not irritant, Analogous conclusion, Does not conform with EU classificatio n. No (skin contact) Yes (skin contact) Yes (skin contact) Yes (inhalation)	Methylenediphenyl diis           Toxicity / effect           Acute toxicity, by oral route:           Skin           corrosion/irritation:           Serious eye damage/irritation:           Respiratory or skin sensitisation:           Respiratory or skin sensitisation:           Germ cell	Endpo int	Value	mg/k	Organis m Rat Rabbit Rabbit Mouse Guinea pig Salmonel Ia typhimuri um	OECD 453 (Combined Chronic enicity/Carcinog enicity/Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin Sensitisation) Regulation (EC) 440/2008 B.13/B.14 (REVERSE MUTATION BACTERIA) OECD 474 (Mammalian Erythrocyte Micronucleus	Notes Analogo conclusi Skin Irrit Eye Irrit. Yes (inhalati contact) Negative
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Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skin corrosion/irritation: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell mutagenicity:	ATE	1,5	mg/k g mg/l/ 4h mg/l/	Rat Rabbit Rabbit Rabbit Guinea pig Mouse Guinea pig Salmonel Ia typhimuri um	440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin Sensitisation) OECD 429 (Skin Sensitisation)	conclusion Analogous conclusion Aerosol, Expert Judgement. Aerosol, Does not conform with EU classificatio n. Skin Irrit. 2, Analogous conclusion, Does not conform with EU classificatio n. Not irritant, Analogous conclusion, Ves (skin contact) Yes (skin contact) Yes (inhalation) Negative, Analogous conclusion	Methylenediphenyl diis           Toxicity / effect           Acute toxicity, by oral route:           Skin corrosion/irritation:           Serious eye damage/irritation:           Respiratory or skin sensitisation:           Respiratory or skin sensitisation:           Germ cell mutagenicity:           Germ cell mutagenicity:	Endpo int	Value	mg/k	Organis m Rat Rabbit Rabbit Mouse Guinea pig Salmonel Ia typhimuri um	OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin Sensitisation) Regulation (EC) 440/2008 B.13/B.14 (REVERSE MUTATION TEST USING BACTERIA) OECD 474 (Marmalian Erythrocyte Micronucleus Test) OECD 453 (Combined	Notes Analogo conclusi Skin Irrit Eye Irrit. Yes (inhalati contact) Negative
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Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye damage/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell mutagenicity: Germ cell mutagenicity:	ATE	1,5	mg/k g mg/l/ 4h mg/l/	Rat Rabbit Rabbit Rabbit Guinea pig Mouse Guinea pig Salmonel Ia typhimuri um Rat	440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 405 (Compheter Assay) OECD 474 (Mammalian Erythrocyte Micronucleus Test) OECD 453 (Combined Chronic Toxicity/Carcinog	conclusion Analogous conclusion Aerosol, Expert judgement, Lexpert Logement, Conform with EU classificatio n. Skin Irrit. 2, Analogous conclusion Not irritant, Analogous conclusion, Does not conform with EU classificatio n. Not kin contact) Yes (kin contact) Yes (kin contact) Yes (kin contact) Yes Limited evidence of a carcinogeni c effect., Aenosol, Analogous conclusion	Methylenediphenyl diis           Toxicity / effect           Acute toxicity, by oral route:           Skin corrosion/irritation:           Serious eye damage/irritation:           Respiratory or skin sensitisation:           Respiratory or skin sensitisation:           Germ cell mutagenicity:           Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:           Propylene carbonate Toxicity / effect           Acute toxicity, by oral route:	Endpo int LD50 LD50 NOEC	Value >2000 0,2 0,2 Value >5000	mg/k g mg/m 3 Unit mg/k g mg/k	Organis m Rat Rabbit Rabbit Mouse Guinea pig Salmonel la typhimuri um Rat Rat Rat Rat Rat	OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin Sensitisation) Regulation (EC) 440/2008 B:13B:14 (REVERSE MUTATION TEST USING BACTERIA) OECD 474 (Marmalian Erythrocyte Micronucleus Test) OECD 403 (Combined Chronic Toxicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal Troxicity) OECD 404 (Acute Dermal Troxicity)	Notes Analogc conclusi Skin Irrit Yes (inhalati Yes (ski contact) Negative
Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye damage/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell mutagenicity: Germ cell mutagenicity: Carcinogenicity:	ATE	1,5	mg/k g mg/l/ 4h mg/l/ 4h	Rat Rabbit Rabbit Rabbit Guinea pig Mouse Guinea pig Salmonel la typhimuri um Rat Rat	440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 405 (Corrosio Node Assay) OECD 471 (Marmalian Erythrocyte Micronucleus Test) OECD 453 (Cormbined Chronic Toxicity/Carcinog enicity Studies)	conclusion Analogous conclusion Aerosol, Expert Judgement. Aerosol, Does not conform with EU classificatio n. Skin Irrit. 2, Analogous conclusion Not irritant, Analogous conclusion, Does not conform with EU classificatio n. No (kin contact) Yes (skin contact) Negative Iumited evidence of a carcinogeni carcinogeni carcinogeni carcinogeni carcinogeni carcinogeni conclusion Negative	Methylenediphenyl diis           Toxicity / effect           Acute toxicity, by oral route:           Skin corrosion/irritation:           Serious eye damage/irritation:           Respiratory or skin sensitisation:           Respiratory or skin sensitisation:           Germ cell mutagenicity:           Specific target organ toxicity - repeated exposure (STOT-RE), inhalat:           Propylene carbonate           Toxicity / effect           Acute toxicity, by oral route:           Acute toxicity, by oral route:           Skin corrosion/irritation:	Endpo int LD50 LD50 NOEC	Value >2000 0,2 0,2 Value >5000	mg/k g mg/m 3 Unit mg/k g mg/k	Organis m Rat Rabbit Rabbit Mouse Guinea pig Salmonel Ia typhimuri um Rat Rat Rat Rat Rat	OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin Sensitisation) Regulation (EC) 440/2008 B.13/B.14 (REVERSE MUTATION Rest USING B.ACTERIA) OECD 406 (Skin Sensitisation) TEST USING B.ACTERIA) OECD 4074 (Mammalian Erythrocyte Micronucleus Test) OECD 403 (Combined Chronic Toxicity/Carcinog enicity Studies) Test method OECD 404 (Acute Dermal Toxicity) OECD 404 (Acute Dermal Toxicity) OECD 404 (Acute Dermal Toxicity) OECD 404 (Acute Dermal Toxicity)	Notes Analogo conclusi Skin Irrit Yes (inhalati Yes (skin contact) Negative Negative Negative Notes Notes
Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye damage/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell mutagenicity: Germ cell mutagenicity:	ATE	1,5	mg/k g mg/l/ 4h mg/l/	Rat Rabbit Rabbit Rabbit Guinea pig Mouse Guinea pig Salmonel Ia typhimuri um Rat	440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin Sensitisation) OECD 429 (Skin Sensitisation) OECD 471 (Bacterial Reverse Mutation Test) OECD 474 (Mammalian Erythrocyte Micronucleus Test) OECD 453 (Combined Chronic Toxicity/Carcinog	conclusion Analogous conclusion Aerosol, Expert judgement, Lexpert Logement, Conform with EU classificatio n. Skin Irrit. 2, Analogous conclusion Not irritant, Analogous conclusion, Does not conform with EU classificatio n. Not kin contact) Yes (kin contact) Yes (kin contact) Yes (kin contact) Yes Limited evidence of a carcinogeni c effect., Aenosol, Analogous conclusion	Methylenediphenyl diis           Toxicity / effect           Acute toxicity, by oral route:           Skin           corrosion/irritation:           Serious eye damage/irritation:           Respiratory or skin sensitisation:           Respiratory or skin sensitisation:           Germ cell mutagenicity:           Specific target organ toxicity - repeated exposure (STOT-RE), inhalat:           Propylene carbonate           Toxicity / effect           Acute toxicity, by oral route:           Acute toxicity, by carlar route:	Endpo int LD50 LD50 NOEC	Value >2000 0,2 0,2 Value >5000	mg/k g mg/m 3 Unit mg/k g mg/k	Organis m Rat Rabbit Rabbit Mouse Guinea pig Salmonel la typhimuri um Rat Rat Rat Rat Rat	OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin Sensitisation) Regulation (EC) 440/2008 B:13B:14 (REVERSE MUTATION TEST USING BACTERIA) OECD 474 (Marmalian Erythrocyte Micronucleus Test) OECD 403 (Combined Chronic Toxicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal Troxicity) OECD 404 (Acute Dermal Troxicity)	Notes Analogo conclusi Skin Irrit Eye Irrit. Yes (inhalatit Yes (skii contact) Negative Negative Negative Negative



Page 5 of 8 Bafety data sheet accord Revision date / version: 1 Replacing version dated	1.09.2019	/ 0011		6, Annex II			Acute toxicity, by dermal route: Acute toxicity, by	LD50		2000	mg/k g mg/l/	Rat	OECD 402 (Acute Dermal Toxicity) OECD 403	
Valid from: 11.09.2019 PDF print date: 12.09.20 erax 20-1K-PUR-Konstru	19 uktionsklebs	stoff					inhalation:				4h	Rabbit	(Acute Inhalation Toxicity) OECD 404	Not irrita
Respiratory or skin				Human		No (skin	corrosion/irritation:						(Acute Dermal Irritation/Corrosio	
ensitisation: Germ cell nutagenicity:				being	OECD 471 (Bacterial	contact) Negative	Serious eye damage/irritation:					Rabbit	n) OECD 405 (Acute Eye	Not irrita Mechan
					Reverse Mutation Test)								Irritation/Corrosio n)	irritation possible
Germ cell nutagenicity:					OECD 474 (Mammalian Erythrocyte	Negative	Respiratory or skin sensitisation: Germ cell	1					in vitro	No (skin contact) Negative
					Micronucleus Test)		mutagenicity: Carcinogenicity:							Negative
Germ cell nutagenicity:					OECD 482 (Gen. Tox DNA Damage	Negative								adminis d as Ca lactate
					and Repair, Unscheduled DNA Synthesis in Mammalian		Reproductive toxic	ity:						Negativ adminis d as Ca carbona
					Cells In Vitro)									Carbona
Carcinogenicity:				Mouse	OECD 451 (Carcinogenicity	Negative		SEC	TION	12: E	cologi	cal inform	nation	
Reproductive toxicity:	NOAE	1000	mg/k	Rat	Studies) OECD 414	Negative								
teproductive toxicity.	L	1000	g	i tut	(Prenatal	Negative	Possibly more info ferax 20-1K-PUR-				s, see Sect	tion 2.1 (classif	cation).	
					Developmental Toxicity Study)		Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes
spiration hazard:						No breathing	12.1. Toxicity to	t	e	e	-		method	n.d.a.
						difficulties,	fish: 12.1. Toxicity to						_	n.d.a.
						headaches, gastrointes	daphnia:							
						tinal disturbance	12.1. Toxicity to algae:							n.d.a.
						S,	12.2.	1				1		With w
						dizziness, nausea	Persistence and degradability:							at the interfac
pecific target organ	NOEL	>5000	mg/k		OECD 408 (Reported Dece									transfo slowly
xicity - repeated posure (STOT-RE), al:			g		(Repeated Dose 90-Day Oral Toxicity Study in Rodents)									formati of CO2 into a f
pecific target organ	NOEC	100	mg/m		Rodents) OECD 413	Dust, Mist								insolub
xicity - repeated posure (STOT-RE),			3		(Subchronic Inhalation									reactio produc
nalat.:					Toxicity - 90-Day									with a
					Study)									melting point
ibutyltin dilaurate	End	Velue	11-24	Ormer's	Toot methical	Notes								(polyca mide).
oxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes								Accord
cute toxicity, by oral oute:	LD50	2071	mg/k g	Rat	OECD 401 (Acute Oral									to experie
					Toxicity)									availab to date
cute toxicity, by ermal route:	LD50	>2000	mg/k g	Rat	OECD 402 (Acute Dermal Toxicity)									polycar ide is ir and nor
kin prrosion/irritation:				Rat		Corrosive								degrad
erious eye amage/irritation:				Rabbit	OECD 405 (Acute Eye	Risk of serious	12.3.							n.d.a.
amage/imation.					Irritation/Corrosio	damage to	Bioaccumulative							
espiratory or skin				Guinea	n) OECD 406 (Skin	eyes. Sensitising	potential: 12.4. Mobility in			+				n.d.a.
ensitisation:				pig	Sensitisation)	_	soil: 12.5. Results of							n.d.a.
erm cell utagenicity:						Muta. 2	PBT and vPvB							ind.d.
spiration hazard: ymptoms:						Negative respiratory	assessment 12.6. Other			+				n.d.a.
ympionis.						distress,	adverse effects:							Asserd
						diarrhoea, coughing,	Other information:							Accord to the
						cramps,								recipe, contain
						mucous membrane	Other							no AOX
						irritation, nausea	Other information:							DOC- elimina
						and								degree mplexi
			I			vomiting.								organio
lica, amorphous oxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes								substar
-	int			m										80%/28 n.a.
cute toxicity, by oral ute:	LD50	>5000	mg/k g	Rat	OECD 423 (Acute Oral		4 41	h and d?		1		1	1	
					Toxicity - Acute Toxic Class		4,4'-methylenedip Toxicity / effect	Endpoin	/anate Tim	Valu	Unit	Organism	Test	Notes
lin				Deter	Method)	Not initial	Other	t H	е	e 0,02		-	method	<u> </u>
kin prrosion/irritation:				Rabbit	OECD 404 (Acute Dermal	Not irritant	information:	(Henry)		29		_		
					Irritation/Corrosio		12.1. Toxicity to fish:	LC50	96h	>10 00	mg/l	Brachydani rerio	OECD 203 (Fish, Acute	Analog conclu
erious eye			1	Rabbit	n) OECD 405	Not irritant							Toxicity	
mage/irritation:					(Acute Eye Irritation/Corrosio		12.1. Toxicity to	EC50	24h	>10	mg/l	Daphnia	Test) OECD 202	Analog
					n)		daphnia:			00		magna	(Daphnia	conclus
erm cell utagenicity:					OECD 471 (Bacterial	Negative							sp. Acute Immobilisati	
- ·					Reverse		12.1. Toxicity to	NOEC/N	21d	>10	mg/l	Daphnia	OECD 202	Analog
					Mutation Test)	No	daphnia:	OEL	210		g/1	magna	(Daphnia	conclus
spiration hazard:													sp. Acute Immobilisati	
		Value	Unit	Organis	Test method	Notes	12.2.		28d	0	%		on Test) OECD 302	Not
alcium carbonate	Endpo							1	200	1 0	70	1		
spiration hazard: alcium carbonate oxicity / effect cute toxicity, by oral bute:	Endpo int LD50	>2000	mg/k g	m Rat	OECD 420 (Acute Oral		Persistence and degradability:						C (Inherent Biodegradab	biodegi ble
alcium carbonate oxicity / effect cute toxicity, by oral	int	>2000												biodegr ble



B) Page 6 of 8 Safety data sheet a Revision date / vers Replacing version of Valid from: 11.09.2 PDF print date: 12./ ferax 20-1K-PUR-K	sion: 11.09.20 dated / versior 019 09.2019	19 /001 <sup>.</sup> 1:29.03.2	1		, Annex II			12.2. Persistence and degradability:				%	activated sludge	OECD 302 C (Inherent Biodegradab ility - Modified MITI Test (II))	
12.1. Toxicity to algae:	ErC50	72h	>16 40	mg/l	Desmodesm us subspicatus	OECD 201 (Alga, Growth Inhibition	Analogous conclusion	12.3. Bioaccumulative potential:	BCF		200			OECD 305 (Bioconcentr ation - Flow- Through Fish Test)	Not to be expected
12.3. Bioaccumulative potential:	BCF	28d	200		Cyprinus caprio	Test) IUCLID Chem. Data Sheet	Not to be expected	12.1. Toxicity to fish:	LC50	96h 21d	>10 00	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	
12.3. Bioaccumulative potential:	Log Pow		5,22			(ESIS)	A notable biological accumulati on potential	12.1. Toxicity to daphnia:	NOEC/N OEL EC50	210 3h	>=1 0	mg/l mg/l	Daphnia magna activated	OECD 211 (Daphnia magna Reproductio n Test) OECD 209	
							has to be expected (LogPow > 3).	bacteria:	ECSU	311	>10 0	mg/r	sludge	(Activated Sludge, Respiration Inhibition	
Toxicity to bacteria:	EC50	3h	>10 0	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition	Analogous conclusion							Test (Carbon and Ammonium Oxidation))	
						Test (Carbon		Propylene carbon						_	
						and Ammonium		Toxicity / effect	Endpoin t	Tim e	Valu e	Unit	Organism	Test method	Notes
12.5. Results of						Oxidation))	No PBT	12.1. Toxicity to fish:	LC50	96h	>10 00	mg/l	Cyprinus caprio	92/69/EC	
PBT and vPvB assessment Toxicity to	EC50	14d	>10 00	mg/k	Eisenia	OECD 207 (Earthworm,	substance, No vPvB substance Analogous conclusion	12.1. Toxicity to daphnia:	EC50	48h	>10 00	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati	
annelids: Toxicity to	NOEC/N	14d	>	g mg/k	foetida Lumbricus	(Earthworm, Acute Toxicity Tests) OECD 207	Analogous	12.1. Toxicity to algae:	EC50	72h	>90 0	mg/l	Desmodesm us subspicatus	on Test) OECD 201 (Alga, Growth Inhibition	
annelids: Water solubility:	OEL		100 0	g	terrestris	(Earthworm, Acute Toxicity Tests)	conclusion According	12.2. Persistence and degradability:			83,5 -87- 7	%		Test) OECD 301 B (Ready Biodegradab ility - Co2	Readily biodegra ble29d
							to experience available to date,	12.2. Persistence and	DOC	14d	90- 100	%		Evolution Test) OECD 301 A (Ready	
							polycarbam ide is inert and non- degradable	degradability:						Biodegradab ility - DOC Die-Away Test)	Di
							., With water at the interface, transforms slowly with formation	12.3. Bioaccumulative potential:	Log Pow		- 0,48				Bioaccu ation is unlikely (LogPov 1)., calculate value
							of CO2 into a firm, insoluble reaction product	12.5. Results of PBT and vPvB assessment	EC10	16h	256	ma/l	Pseudomon	DIN 38412	No PBT substan No vPvE substan
							with a high	Toxicity to bacteria:		1011	19	mg/l	as putida	T.8	
							melting point (polycarba mide).	Other information:	AOX		0	%			Does no contain any organica bound
Reaction mass of Toxicity / effect	4,4'-methyler Endpoin	nediphen Tim	yl diisoc Valu	yanate an Unit	d o-(p-isocyanat Organism	Test	isocyanate Notes								halogens which ca
12.2. Persistence and degradability:	t	<b>e</b> 28d	<b>e</b> 0	%	activated sludge	method OECD 302 C (Inherent Biodegradab ility -									contribut to the Ad value in waste water.
						Modified MITI Test		Dibutyltin dilaurat	e					I	
12.3.	BCF		200			(II))	Not to be	Toxicity / effect	Endpoin t	Tim e	Valu e	Unit	Organism	Test method	Notes
Bioaccumulative potential: 12.1. Toxicity to fish:	LC50	96h	> 100	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute	expected	12.1. Toxicity to fish:	LC0	96h	3,1	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	saturated
12.1. Toxicity to daphnia:	NOEC/N OEL	21d	0 >10	mg/l	Daphnia magna	Toxicity Test) OECD 211 (Daphnia magna		12.1. Toxicity to daphnia:	EC50	48h	<1	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)	saturated solution
12.1. Toxicity to daphnia:	EC50	24h	> 100	mg/l	Daphnia magna	Reproductio n Test) OECD 202 (Daphnia		12.1. Toxicity to algae:	EC50	72h	>1	mg/l	Desmodesm us subspicatus	OECD 201 (Alga, Growth Inhibition	
Toxicity to	EC50	3h	0 >10	mg/l	activated	sp. Acute Immobilisati on Test) OECD 209		12.2. Persistence and degradability:		28d	22	%		Test) OECD 301 F (Ready Biodegradab	Not read biodegra
bacteria:			0		sludge	(Activated Sludge, Respiration Inhibition Test		12.3.	BCF		1,49			ility - Manometric Respirometr y Test) OECD 305	
						(Carbon and Ammonium Oxidation))		Bioaccumulative potential:			-3,7			(Bioconcentr ation - Flow- Through Fish Test)	
								12.5. Results of				_			No PBT
Methylenedipheny Toxicity / effect	yl diisocyana Endpoin	e, modif Tim	ied Valu	Unit	Organism	Test	Notes	PBT and vPvB assessment							substan No vPvE



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Silica, amorphous							
Toxicity / effect	Endpoin t	Tim e	Valu e	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	EC0	96h	>10 000	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC0	24h	>10 00	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)	
12.1. Toxicity to algae:	ErC50	72h	>=1 000 0	mg/l	Scenedesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:							Not biodegrada ble
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

Calcium carbonat Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes
· · · · · · · · · · · · · · · · · · ·	t	e	e		<b>j</b>	method	
12.1. Toxicity to fish:	LC50	96h	>10 0	mg/l	Oncorhynch us mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	>10 0	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)	
12.1. Toxicity to algae:	EC50	72h	>14	mg/l	Desmodesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
Toxicity to bacteria:	EC50	3h	>10 00	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Toxicity to annelids:					Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	Negative
Water solubility:			0,01 4	g/l		,	

# **SECTION 13: Disposal considerations**

13.1 Waste treatment methods For the substance / mixture / residual amounts EC disposal code no.: The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU) 08 04 09 waste adhesives and sealants containing organic solvents or other hazardous substances 08 05 01 waste isocyanates Recommendation Sewage disposal shall be discouraged. Pay attention to local and national official regulations. E.g. suitable incineration plant. Hardened product: E.g. dispose at suitable refuse site For contaminated packing material Pay attention to local and national official regulations. Empty container completely. Uncontaminated packaging can be recycled. Dispose of packaging that cannot be cleaned in the same manner as the substance. 15 01 10 packaging containing residues of or contaminated by hazardous substances **SECTION 14: Transport information** 

# General statements

14.1. UN number:	n.a.		
Transport by road/by rail (ADR/RID	0)		
14.2. UN proper shipping name:	,	acc., acc. to according, according to	
14.3. Transport hazard class(es):	n.a.	ADR Accord européen relatif	
14.4. Packing group:	n.a.	European Agreement concerning the	
Classification code:	n.a.	AOX Adsorbable organic halo	
LQ:	n.a.	approx. approximately	
14.5. Environmental hazards:	Not applicable	Art., Art. no.Article number	
Tunnel restriction code:		ASTM ASTM International (Am	neric
Transport by sea (IMDG-code)		BAM Bundesanstalt für Mater	rialfo
14.2. UN proper shipping name:		Testing, Germany)	
14.3. Transport hazard class(es):	n.a.	BAuA Bundesanstalt für Arbeit	tssc
14.4. Packing group:	n.a.	and Safety, Germany)	
Marine Pollutant:	n.a	BSEF The International Bromin	ne C
14.5. Environmental hazards:	Not applicable	bw body weight	
Transport by air (IATA)		CAS Chemical Abstracts Ser	
14.2. UN proper shipping name:		CLP Classification, Labelling	
14.3. Transport hazard class(es):	n.a.	labelling and packaging of substance	
14.4. Packing group:	n.a.	CMR carcinogenic, mutagenic	
· · · · · doining group.		DMEL Derived Minimum Effect	t Lev

## 14.5. Environmental hazards:

14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed. 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code Non-dangerous material according to Transport Regulation

# **SECTION 15: Regulatory information**

Not applicable

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

Observe restrictions: Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!

92/85/EC)! Regulation (EC) No 1907/2006, Annex XVII 4.4"-methylenediphenyl diisocyanate Reaction mass of 4.4"-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate Methylenediphenyl diisocyanate, modified

Dibutyltin dilaurate Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC):

**15.2 Chemical safety assessment** A chemical safety assessment is not provided for mixtures.

## **SECTION 16: Other information**

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Revised sections:

These details refer to the product as it is delivered. Employee instruction/training in handling hazardous materials is required.

### Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Eye Irrit. 2, H319	Classification according to calculation procedure.
STOT SE 3, H335	Classification according to calculation procedure.
Skin Irrit. 2, H315	Classification according to calculation procedure.
Resp. Sens. 1, H334	Classification according to calculation procedure.
Skin Sens. 1, H317	Classification according to calculation procedure.
Carc. 2, H351	Classification according to calculation procedure.
STOT RE 2, H373	Classification according to calculation procedure.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3). H314 Causes severe skin burns and eye damage.

N314 Causes service skin bulns and eye damage. N360FD May damage ferullity. May damage the unborn child. N373 May cause damage to organs through prolonged or repeated exposure by inhalation. N315 Causes skin irritation. N317 May causes an allergic skin reaction. N318 Causes serious eye damage. N319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H341 Suspected of causing genetic defects. H351 Suspected of causing cancer.

H370 Causes damage to organs

Harz Causes damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.

Eye Irrit. — Eye irritation STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation Skin Irrit. — Skin irritation Skin Irrit. — Skin irritation Resp. Sens. — Respiratory sensitization Skin Sens. — Skin sensitization Carc. — Carcinogenicity STOT RE — Specific target organ toxicity - repeated exposure Acute Tox. — Acute toxicity - inhalation

Acute Tox. — Acute toxicity - inhalation Muta. — Germ cell mutagenicity Repr. — Reproductive toxicity Skin Corr. — Skin corrosion Aquatic Acute — Hazardous to the aquatic environment - acute Aquatic Chronic — Hazardous to the aquatic environment - chronic STOT SE — Specific target organ toxicity - single exposure Eye Dam. — Serious eye damage

## Any abbreviations and acronyms used in this document:

transport international des marchandises Dangereuses par Route (= nternational Carriage of Dangerous Goods by Road) en compounds rican Society for Testing and Materials) Iforschung und -prüfung (Federal Institute for Materials Research and schutz und Arbeitsmedizin (= Federal Institute for Occupational Health Council or nd Packaging (REGULATION (EC) No 1272/2008 on classification, and mixtures) reproductive toxic evel



(GB)	
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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II	
Revision date / version: 11.09.2019 / 0011	
Replacing version dated / version: 29.03.2019 / 0010	
Valid from:	
	ate: 12.09.2019
	-PUR-Konstruktionsklebstoff
leiax 20- IK	-POR-Konstruktionskiedston
DNE	Desired No. 5% and and
DNEL	Derived No Effect Level
dw	dry weight
e.g.	for example (abbreviation of Latin 'exempli gratia'), for instance
EC	European Community
ECHA	European Chemicals Agency
EEC	European Economic Community
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EN	European Norms
EPA	United States Environmental Protection Agency (United States of America)
etc.	et cetera
EU	European Union
EVAL	Ethylene-vinyl alcohol copolymer
Fax.	Fax number
gen.	general
ĞHS	Globally Harmonized System of Classification and Labelling of Chemicals
GWP	Global warming potential
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC (Code)	International Bulk Chemical (Code)
	International Maritime Code for Dangerous Goods
incl.	including, inclusive
IUCLID	International Uniform Chemical Information Database
LQ	Limited Quantities
MARPOL	International Convention for the Prevention of Marine Pollution from Ships
n.a.	not applicable
n.av.	not available
n.c.	not checked
n.d.a.	no data available
OECD	Organisation for Economic Co-operation and Development
org.	organic
PBT	persistent, bioaccumulative and toxic
PE	Polyethylene
PNEC	Predicted No Effect Concentration
ppm	parts per million
PVC	
	Polyvinylchloride
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)
REACH-IT I	
	numerical identifier. List Numbers do not have any legal significance, rather they are purely
	entifiers for processing a submission via REACH-IT.
RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)	
SVHC	Substances of Very High Concern
Tel.	Telephone
	United Nations Recommendations on the Transport of Dangerous Goods
VOC	Volatile organic compounds
vPvB	very persistent and very bioaccumulative
wwt	wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility. These statements were made by: Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90 © by Chemical Check GmbH Gefahrstoffberatung. The copying or changing of this document is forbidden except with consent of the Chemical Check GmbH Gefahrstoffberatung.