Article Print c Versic	late:	922 27.12.2022 8.0	Härter zu CREAP 2 Revision date: 10 Issue date: 10.12	.12.2022	EN Page 1 / 10			
SEC	SECTION 1: Identification of the substance/mixture and of the company/undertaking							
1.1.	. product identifiers Article No. (manufacturer/supplier) 922 Trade name/designation Härter zu CREAPAD farblos Typ 1620							
1.2.	Relevant i	dentified us	es of the substance or m es: tecting surfaces	ixture and uses ad	vised against			
1.3.			of the safety data sheet					
			i mporter/downstream user/ gen CH-5000 Aarau www.fa					
	laboratory E-mail (cor	Manager mpetent pers		info@knuchel.ch				
1.4.	•	y telephone y telephone r		145 (+41 (0)44 2	51 51 51)			
SEC	TION 2: Ha	azards iden	itification					
2.1.			ubstance or mixture ng to Regulation (EC) No	0 1272/2008 [CLP]				
	The mixtur	e is classified	d as hazardous according t	to regulation (EC) No	o 1272/2008 [CLP].			
	Acute Tox. Skin Sens. STOT SE 3 Aquatic Ch	1 / H317	Acute toxicity (inha Respiratory or skir STOT-single expo Hazardous to the a	n sensitisation	Harmful if inhaled. May cause an allergic skin reaction. May cause respiratory irritation. Harmful to aquatic life with long lasting effects.			
2.2.	Label eler	nents						
			o Regulation (EC) No. 127	72/2008 [CLP]				
	Hazard pi	ctograms						
		Warning	3					
	Hazard sta	atements						
	H332	-	Harmful if inhaled.					
	H317 H335		May cause an allergic skin May cause respiratory irrita					
	H412		Harmful to aquatic life with					
	Precautionary statementsP101If medical advice is needed, have product container or label at hand.P102Keep out of reach of children.P103Read carefully and follow all instructions.P261Avoid breathing vapours.P271Use only outdoors or in a well-ventilated area.P272Contaminated work clothing should not be allowed out of the workplace.P273Avoid release to the environment.P280Wear protective gloves and eye/face protection.P302 + P352IF ON SKIN: Wash with plenty of soap and water.P303 + P340IF INHALED: Remove person to fresh air and keep comfortable for breathing.P312Call a POISON CENTER or doctor/physician if you feel unwell.P333 + P313If skin irritation or rash occurs: Get medical advice/attention.P362 + P364Take off contaminated clothing and wash it before reuse.P403 + P233Store in a well-ventilated place. Keep container tightly closed.P405Keep locked up.							

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F	P501	Disp	ose of contents/container to industrial in	cineration plant.			
	Hazard cor	nponents for la	belling				
			cyanatosulphonyltoluene				
		hexa	methylene-di-isocyanate				
		ntal hazard info					
I	EUH204	Cont	ains isocyanates. May produce an aller	gic reaction.			
3. (Other haza	irds					
I	No informat	tion available.					
СТ	ION 3: Co	mposition/inf	ormation on ingredients				
2. 1	Mixtures						
l	Descriptio	n polyi	socyanate hardener, containing the follo	owing hazardous substances:			
(Classification according to Regulation (EC) No 1272/2008 [CLP]						
	EC No.		CH No.	-			
(CAS No.	Desi	gnation		weight-%		
	Index No.	clas	sification // Remark				
	160994-68-	2 Alinh	atia palviagovanato		60 - 80		
	100994-00-		iatic polyisocyanate e Tox. 4 H332 / Skin Sens. 1 H317	/ STOT SE 3 H335 / Aquatic	00 - 80		
			nic 3 H412				
	223-810-8		119980050-47				
4	4083-64-1	4-isc	cyanatosulphonyltoluene		0.5 - 1		
(615-012-00)-7 Skin	Irrit. 2 H315 / Eye Irrit. 2 H319 / Re	sp. Sens. 1 H334 / Skin Sens. 1			
			7 / STOT SE 3 H335 / EUH014				
			cific concentration limit (SCL): Eye Irrit.	2 H319 >= 5 / STOT SE 3			
_	040 405 0		5 >= 5 / Skin Irrit. 2 H315 >= 5				
	212-485-8 822-06-0		119457571-37		0.05 - 0.1		
	822-06-0 615-011-00		methylene-di-isocyanate	STOT SE 2 LI22E / Skip krit 2	0.05 - 0.1		
	010-011-00		e Tox. 3 H331 / Eye Irrit. 2 H319 / 5 / Resp. Sens. 1 H334 / Skin Sens. 1				
			cific concentration limit (SCL): Resp. S				
			s. 1 H317 >= 0.5				
			e toxicity estimate (ATE), ATE (inhalatio) 0.40 //			

Full text of classification: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

Following ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

In all cases of doubt, or when symptoms persist, seek medical advice.

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4.3. **Indication of any immediate medical attention and special treatment needed** First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

Unsuitable extinguishing media

strong water jet

5.2. Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3. Advice for firefighters

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

Further information

Vapours are heavier than air. Vapours form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRGS 727)".

Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

7.3. Specific end use(s)

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Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values:

not applicable

DNEL:

hexamethylene-di-isocyanate

Index No. 615-011-00-1 / EC No. 212-485-8 / CAS No. 822-06-0 DNEL acute inhalative (local), Workers: 0,07 mg/m³ DNEL long-term inhalative (systemic), Workers: 0,035 mg/m³

8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

Personal protection equipment

Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Use only respiratory protection equipment with CE-symbol including four digit test number.

Hand protection

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber)

Thickness of the glove material > 0,4 mm ; Breakthrough time: > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles EN ISO 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye/face protection

Wear closely fitting protective glasses in case of splashes.

Body protection

9

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1.	Information on basic physical and chemical p Physical state: Colour:	roperties Liquid refer to label
	Odour:	characteristic
	Odour threshold:	not applicable
	Melting point/freezing point:	not applicable
	Initial boiling point and boiling range:	175 °C Source: dipropylene-glycol-dimethyl-ether
	Flammability:	Combustible liquid.
	Lower and upper explosion limit: Lower explosion limit: Upper explosion limit:	0.7 Vol-% 5.5 Vol-% Source: dipropylene-glycol-dimethyl-ether
	Flash point:	65 °C Method: DIN 53213
	Auto-ignition temperature:	165 °C Source: dipropylene-glycol-dimethyl-ether
	Decomposition temperature:	not applicable

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	pH at 20 °	C:		not applicable	e	
	Cinematic	viscosity (40°C):		> 700 mm²/s		
	Viscosity	at 20 °C:		60 s 6 mm Method: DIN	53211	
	Solubility Water so	(ies): lubility at 20 °C:		partially solu	ble	
		coefficient: n-octan	ol/water:	see section 1		
		ressure at 20 °C:		0.7 mbar Source: dipro	pylene-glycol-dimethyl-ether	
	Density a Density a	nd/or relative densi t 20 °C:	ty:	1.08 g/cm³		
	Relative v	apour density:		not applicable	e	
	particle cl	naracteristics:		not applicable	e	
9.2.	Other info	ormation				
	Solid con			75 weight-%		
	solvent co Organic Water:	ontent: solvents:		25 weight-% 0 weight-%		
SEC	TION 10: \$	Stability and react	tivity			
10.1.	Reactivity No informa	, ation available.				
10.2.	Chemical Stable who section 7.	•	mmended regulat	ions for storage	and handling. Further information on correct storage: refer to	
10.3.		y of hazardous read y from strong acids, s		strong oxidizing	agents to avoid exothermic reactions.	
10.4.	Condition Hazardous		roducts may form	with exposure t	o high temperatures.	
10.5.	Incompation not application	i ble materials able				
10.6.	b.6. Hazardous decomposition products Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon mono smoke, nitrogen oxides.				to high temperatures, e.g.: carbon dioxide, carbon monoxide,	
SEC	TION 11: 1	Foxicological info	rmation			
11.1.	Informatio	on on hazard classe	es as defined in I	Regulation (EC) No 1272/2008	
	Acute tox	icity				
	Harmful if	inhaled.				

hexamethylene-di-isocyanate oral, LD50, Rat: 746 mg/kg Method: OECD 401 dermal, LD50, Rat: > 7000 mg/kg Method: OECD 402 dermal, LD50, Rabbit: 570 mg/kg inhalative (vapours), LC50, Rat: 0,124 mg/L (4 h) Method: OECD 403 inhalative (vapours), LC50, Mouse: 1,57 mg/L Aliphatic polyisocyanate oral, LD50, Rat: > 2000 mg/kg inhalative (4 h)

inhalative (vapours), LC50, Rat: 0,5 mg/L (4 h) inhalative (vapours), LC0, Rat: 0,39 mg/L (4 h)

cle No.: nt date: rsion:	922 27.12.2022 8.0	Härter zu CREAPAD Revision date: 10.12.2022 Issue date: 10.12.2022	EN Page 6 / 10
Skin co	rrosion/irritation; S	erious eye damage/eye irritation	
Skin (4 Methoo Corros eyes Methoo	d: OECD 404 ive d: OECD 405	e n.; Causes serious eye damage.	
Skin (4 No dat eyes	c polyisocyanate ⊦ h) a available a available		
Respira	tory or skin sensiti	sation	
May cau	ise an allergic skin re	eaction.	
Skin, G Methoo Respira	thylene-di-isocyanate Guinea pig: ; Evaluati d: OECD 406 atory system, Guinea d: OECD 406		
Skin: No dat Respir	c polyisocyanate a available atory system: a available		
CMR eff	fects (carcinogenici	ty, mutagenicity and toxicity for re	eproduction)
hexame Germ of Mutage Carcin Showe Reproof No effe Genoto Methoo Salmoo teratog Did noi	thylene-di-isocyanate cell mutagenicity enicity (mammalian co ogenicity d no carcinogenic ef ductive toxicity ect on fertility in anim oxicity in vivo; Evalua d: OECD 474 ; Inhalation; bone ma oxicity in vitro; Evalua d: Ames test nella typhimurium genicity t show any fruit-dama c polyisocyanate	e ell test): chromosome aberration. O fect in animal experiments. al studies. tion negative arrow	varian cells of Chinese hamster Result: negative
No dat Carcin No dat Reproc	cell mutagenicity a available ogenicity a available ductive toxicity a available		
STOT-s	ingle exposure; ST	OT-repeated exposure	
May cau	ise respiratory irritation	on.	
Specifi May ca Specifi			stem
No dat			

Aspiration hazard

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Aliphatic polyisocyanate Aspiration hazard No data available

Practical experience/human evidence

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

Overall assessment on CMR properties

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

11.2. Information on other hazards

Endocrine disrupting properties

No information available.

SECTION 12: Ecological information

Classification according to Regulation (EC) No 1272/2008 [CLP] Do not allow to enter into surface water or drains.

12.1. Toxicity

hexamethylene-di-isocyanate Fish toxicity, LC50, Danio rerio (zebrafish): 22 mg/L (96 h) Algae toxicity, ErC50, Desmodesmus subspicatus: > 77,4 mg/L (72 h) Method: OECD 201 accompanying analysis: yes growth inhibition, NOEC, Desmodesmus subspicatus: 11,7 mg/L (72 h) Method: OECD 201 accompanying analysis: yes Bacteria toxicity, EC0, Pseudomonas putida: 100 mg/L (24 h) (IUCLID) respiratory inhibition, EC50, Activated sludge: 842 mg/L (3 h) Method: OECD 209 Aliphatic polyisocyanate

Fish toxicity, LC50, Danio rerio (zebrafish): 28,3 mg/L (96 h) Daphnia toxicity, EC50, Daphnia magna: > 100 mg/L (48 h) Algae toxicity, ErC50, Scenedesmus subspicatus: > 100 mg/L (72 h) Toxicity of Microoganisms, EC50, Mysidopsis bahia: > 10000 mg/L (3 h)

Long-term Ecotoxicity

Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

hexamethylene-di-isocyanate Biodegradation: < 0,0001 percent (28 d); Evaluation Poorly eliminated from water. Method: OECD 302C Aliphatic polyisocyanate

Biodegradation: No data available

12.3. Bioaccumulative potential

Aliphatic polyisocyanate Distribution coefficient n-octanol/water (log KOW): No data available

12.4. Mobility in soil

Aliphatic polyisocyanate soil: No data available

12.5. Results of PBT and vPvB assessment

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	The substa	nces in the mixture	do not meet the PBT/vPvB criteria according to REACH, annex XIII.			
12.6.	Endocrine disrupting properties No information available.					
12.7.	Other adve No informat	erse effects tion available.				
SEC	FION 13: D	isposal conside	rations			
13.1.	Waste trea	tment methods				
	Recommen Do not allo	w to enter into surf	u ct face water or drains. This material and its container must be disposed of in a safe way. Waste e 2008/98/EC, covering waste and dangerous waste. Dispose of waste according to applicable			
	legislation.	U				
	080111*	Waste	es/waste designations in accordance with EWC paint and varnish containing organic solvents or other dangerous substances o Directive 2008/98/EC (waste framework directive).			
	Recommen		age nay be recycled. Vessels not properly emptied are special waste.			
SEC		ransport informa				
		•	e of this transport regulation.			
14.1.	-	r or ID number	· · · ································			
			not applicable			
14.2.	UN proper	shipping name				
14.3.	Transport	hazard class(es)				
	-		not applicable			
14.4.	Packing gr	roup				
			not applicable			
14.5.		ental hazards				
	-	port (ADR/RID)	not applicable			
146	Marine poll	ecautions for user	not applicable			
14.0.	Transport a case of an a		pright and safe containers. Make sure that persons transporting the product know what to do in e.			
	Further inf	ormation				
	Land trans	port (ADR/RID)				
	Tunnel rest		-			
	Sea transp	ort (IMDG)				
	EmS-No.		not applicable			
14.7.		ansport in bulk ac	ccording to IMO instruments			
		rt as bulk according	-			
SEC	TION 15: R	egulatory inform	nation			
			ental regulations/legislation specific for the substance or mixture			
10.1.	EU legislat		entar regulations/registation specific for the substance of mixture			

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive] VOC-value (in g/L): 267

National regulations

Restrictions of occupation

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Observe employment restrictions under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if applicable.

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC) or stricter national regulations, if applicable.

15.2. Chemical Safety Assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

EC No. CAS No.	Designation	REACH No.
223-810-8 4083-64-1	4-isocyanatosulphonyltoluene	01-2119980050-47
212-485-8 822-06-0	hexamethylene-di-isocyanate	01-2119457571-37

SECTION 16: Other information

Full text of classificat	tion in section 3					
Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.				
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.				
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.				
Aquatic Chronic 3 / H4		Harmful to aquatic life with long lasting effects.				
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.				
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.				
Resp. Sens. 1 / H334	Respiratory or skin sensitisation	May cause allergy or asthma symptoms or				
		breathing difficulties if inhaled.				
Acute Tox. 3 / H331	Acute toxicity (inhalative)	Toxic if inhaled.				
Classification proced						
Classification for mixtu	ires and used evaluation method according to regu	lation (EC) No 1272/2008 [CLP]				
Acute Tox. 4	Acute toxicity (inhalative)	Calculation method.				
Skin Sens. 1	Respiratory or skin sensitisation	Calculation method.				
STOT SE 3	STOT-single exposure	Calculation method.				
Aquatic Chronic 3	Hazardous to the aquatic environment	Calculation method.				
Abbreviations and ac	-					
	European Agreement concerning the International	Carriage of Dangerous Goods by Road				
	Occupational Exposure Limit Value					
	Biological Limit Value					
	Chemical Abstracts Service					
	Classification, Labelling and Packaging					
-	Carcinogenic, Mutagenic and Reprotoxic					
	German Institute for Standardization / German indu	istrial standard				
	Derived No-Effect Level					
	European Waste Catalogue Directive					
	Effective Concentration					
	European Community					
	European Standard	a Caada Dagulatiana				
	International Air Transport Association – Dangerou					
	nternational Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk					
	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous					
	Goods by Air International Maritime Code for Dangerous Goods					
	International Organization for Standardization					
	Lethal Concentration					
	Lethal Dose					
		the Drevention of Dellution from Chine				
	Maritime Pollution: The International Convention for					
	Organisation for Economic Cooperation and Devel	opment				
	persistent, bioaccumulative, toxic					
	Predicted No Effect Concentration	tion of Oberningle				
	Registration, Evaluation, Authorisation and Restric					
	Regulations concerning the International Carriage	of Dangerous Goods by Rail				
	United Nations					
	o	olatile Organic Compounds				
vPvB	very persistent and very bioaccumulative					

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Further information

Classification according to Regulation (EC) No 1272/2008 [CLP]

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.