accon	ung to Regi	ilation (EU)	2015/830			FEYCOLOR °
Article Print da Versior	ate: 2	14-4201 1.11.2018 .7	FEYCARBON Här Revision date: 11. Issue date: 11.10.	10.2018	999998 EN Page 1 / 8	PEICOLOK
SECT	ION 1: Ident	ification of t	he substance/mixt	ure and of the co	mpany/undertaking	
	product iden				p	
	Article No. (m	anufacturer/su of the substanc		114-4201 FEYCARBON Hä schnell	rter HS 420	
	Relevant ider	ntified uses:	the substance or mis		vised against	
			ne safety data sheet	-		
	manufacturel FEYCOLOR (Maxhuettenstr 93055 Regens	GmbH raße 6 sburg		Telephone: 0049 Telefax: 0049 (0) E-mail info@feyco Website: www.fey	941/60 49 7-30 olor.com	
		sible for infor or dangerous g etent person)		0049 (0)941/60 4 sd@feycolor.com		
	Emergency te	elephone num lephone numb ne Vergiftungsi		+49 (0) 700 24 11 +43 (0) 1406 43 4		
SECT	ION 2: Haza	rds identific	ation			
2.1.	Classificatio	n of the subst	ance or mixture			
	Classification	n according to	Regulation (EC) No	1272/2008 [CLP]		
	The mixture is	classified as I	nazardous according to	regulation (EC) No	1272/2008 [CLP].	
	Flam. Liq. 3 / Skin Sens. 1 / STOT SE 3 / I	H317	Flammable liquids Respiratory or skin Specific target orga exposure)		Flammable liquid May cause an al May cause respi	lergic skin reaction.
	STOT SE 3 / H		Specific target orga exposure)	an toxicity (single	May cause drow	siness or dizziness.
	Label elemen					
			Julation (EC) No. 1272	2/2008 [CLP]		
	Hazard picto		Warning			
	P304 + P340 P308 + P313 P405 P501	Flamm May of May of y statements Keep Use e Wear + P353 IF ON IF INH IF exp Keep Disponents for lal 1,6-H	xplosion-proof electrica protective gloves and SKIN (or hair): Take of IALED: Remove perso posed or concerned: G locked up. se of contents/containe	eaction. on. zziness. urfaces, sparks, ope al equipment. eye/face protection. off immediately all co n to fresh air and ke et medical advice/at er to industrial incine	ontaminated clothing. R eep comfortable for brea tention.	tion sources. No smoking. inse skin with water [or shower]. athing.



Article No.:	114-4201	FEYCARBON Härter HS 420		
Print date:	21.11.2018	Revision date: 11.10.2018	999998 EN	
Version:	3.7	Issue date: 11.10.2018	Page 2 / 8	

Supplemental Hazard information (EU)

EUH066	Repeated exposure may cause skin dryness or cracking.
EUH204	Contains isocyanates. May produce an allergic reaction.

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Product description / chemical characterization

Description

Hazardous ingredients

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

EC No.	REACH No.	
CAS No.	Chemical name	Wt %
INDEX No.	classification // Remark	
500-060-2	01-2119485796-17	
28182-81-2	1,6-Hexamethylene diisocyanate homopolymer	50 < 100
	Acute Tox. 4 H332 / Skin Sens. 1 H317 / STOT SE 3 H335	
204-658-1	01-2119485493-29	
123-86-4	n-butyl acetate	25 < 50
607-025-00-1	Flam. Liq. 3 H226 / STOT SE 3 H336	
205-500-4	01-2119475103-46	
141-78-6	Ethyl acetate	1 < 5
607-022-00-5	Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336	
204-550-4		
122-51-0	Triethyle orthoformiate	1 < 5
	Flam. Liq. 3 H226	

Additional information

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.

After 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.

4.3. **Indication of any immediate medical attention and special treatment needed** No special measures are necessary.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:



Article No.:	114-4201	FEYCARBON Härter HS 420		
Print date:	21.11.2018	Revision date: 11.10.2018	999998 EN	
Version:	3.7	Issue date: 11.10.2018	Page 3 / 8	

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

Extinguishing media which must not be used for safety reasons:

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.

Precautions against fire and explosion:

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 (TRBS 2153)".

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)

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values:

n-butyl acetate



Article No.:	114-4201	FEYCARBON Härter HS 420
Print date:	21.11.2018	Revision date: 11.10.2018
Version:	3.7	Issue date: 11.10.2018

999998 EN Page 4 / 8

INDEX No. 607-025-00-1 / EC No. 204-658-1 / CAS No. 123-86-4 MEL/OES, TWA: 724 mg/m3; 150 ppm MEL/OES, STEL: 966 mg/m3; 200 ppm

Ethyl acetate

INDEX No. 607-022-00-5 / EC No. 205-500-4 / CAS No. 141-78-6

WEL, TWA: 730 mg/m3; 200 ppm

WEL, STEL: 1460 mg/m3; 400 ppm

Additional information

TWA : long-term occupational exposure limit value STEL : short-term occupational exposure limit value Ceiling : peak limitation

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.

Occupational exposure controls

Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). 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 0,7 mm; Breakthrough time (maximum wearing time) 60 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 DIN EN 374

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

Eye protection

Wear closely fitting protective glasses in case of splashes.

Protective clothing

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 chapter 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance: Physical state: Colour:	Liquid refer to label
Odour:	characteristic
Odour threshold:	not applicable
pH at20 °C:	n.a.
Melting point/freezing point:	not applicable
Initial boiling point and boiling range:	77 °C Source: Ethyl acetate
Flash point:	26 °C
Evaporation rate:	not applicable
Flammability (solid, gas): Burning time (s):	not applicable
Upper/lower flammability or explosive limits: Lower explosion limit: Upper explosion limit:	3 Vol-% 10,4 Vol-%



Article	No ·	114-4201	FEYCARBON H	lärter HS 420		FEYCOLOR®
Print d Versio	ate:	21.11.2018 3.7	Revision date: 1 Issue date: 11.1	11.10.2018	999998 EN Page 5 / 8	
				Source: n-butyl ac	etate	
	Vapour _l	oressure at20 °C:		4,7676 mbar		
	Vapour	density:		not applicable		
	Relative Density	density: at20 °C:		1,02 g/cm³		
	Solubilit Water s	y(ies): olubility (g/L) at20 °	C:	insoluble		
	Partition	coefficient: n-octa	nol/water:	see section 12		
	Auto-ign	ition temperature:		200 °C		
	Decomp	osition temperature	:	not applicable		
	Viscosit	y at20 °C:		> 11 s 4 mm Method: DIN 5321	1	
	Explosiv	e properties:		not applicable		
	Oxidisin	g properties:		not applicable		
9.2.	Other in	formation				
	Solid co	ntent (%):		56 Wt %		
		content: c solvents:		44,10 Wt %		
	Water:			0,00 Wt %		
0503		separation test (%):		< 3 Wt % (ADR/RII	(0	
SEC	FION 10:	Stability and read	ctivity			
10.1.	Reactivi No inform	ty nation available.				
10.2.			ommended regulat	ions for storage and	handling. Further informati	on on correct storage: refer to
10.3.		ity of hazardous rea ay from strong acids,		strong oxidizing age	ents to avoid exothermic rea	ctions.
10.4.		ons to avoid us decomposition by	products may form	with exposure to hig	h temperatures.	
10.5.	-	itible materials nation available.				
10.6.	Hazardo	us decomposition pus decomposition by itrogen oxides.		with exposure to hi	gh temperatures, e.g.: carb	on dioxide, carbon monoxide
SEC	TION 11 :	Toxicological inf	ormation			
		ation according to Re on preparation itself a		272/2008 [CLP]		
11.1.	Informat	ion on toxicologica	l effects			
	Acute toxicity, calculated: ATEmix calculated, inhalative (vapours): > 20 mg/l					
	Acute toxicity					
	n-butyl acetate oral, LD50, Rat: 14000 mg/kg inhalative (vapours), LC50, Rat: > 21 mg/l (4 h)					
	1,6-Hexamethylene diisocyanate homopolymer inhalative (vapours), LC50, Rat: (4 h) Harmful if inhaled.					
	skin corrosion/irritation; Serious eye damage/eye irritation					
	Based or	n available data, the o	classification criteri	a are not met.		

Article No.:	114-4201	FEYCARBON Härter HS 420
Print date:	21.11.2018	Revision date: 11.10.2018
Version:	3.7	Issue date: 11.10.2018

999998 EN Page 6 / 8 **FEYCOLOR**[®]

Respiratory or skin sensitisation

1,6-Hexamethylene diisocyanate homopolymer Skin:

May cause an allergic skin reaction.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Based on available data, the classification criteria are not met.

Specific target organ toxicity

n-butyl acetate

Specific target organ toxicity (single exposure), drowsiness: May cause drowsiness or dizziness.

1,6-Hexamethylene diisocyanate homopolymer Specific target organ toxicity (single exposure), Irritation: May cause respiratory irritation.

Practical experience/human evidence

Other observations:

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.

Remark

There is no information available on the preparation itself .

SECTION 12: Ecological information

overall evaluation

Classification according to Regulation (EC) No 1272/2008 [CLP] There is no information available on the preparation itself . Do not allow to enter into surface water or drains.

12.1. Toxicity

Toxicological data are not available.

Long-term Ecotoxicity

Toxicological data are not available.

- 12.2. **Persistence and degradability** No information available.
- 12.3. Bioaccumulative potential

No information available.

Bioconcentration factor (BCF)

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods Appropriate disposal / Product Recommendation



accoi	rding to F	Regulation (EU)	2015/830				
				FEYCOLOR®			
Article Print c Versic	late:	114-4201 21.11.2018 3.7	FEYCARBON Härter HS 420 Revision date: 11.10.2018 Issue date: 11.10.2018	999998 EN Page 7 / 8			
	disposal a	according to direction of the second se	rface water or drains. This material and i ve 2008/98/EC, covering waste and dange des/waste designations in accordance we paint and varnish containing organic solv	with EWC			
	packagin Recomm	g endation	may be recycled. Vessels not properly er				
SEC		Transport inform					
	UN numb	•					
14.1.			UN 1263				
14.2.	UN prope	er shipping name					
		sport (ADR/RID):	Paint related materia	I			
		port (IMDG):	PAINT RELATED MA				
	•	ort (ICAO-TI / IATA	,				
14.3.	Transpor	t hazard class(es					
	D		3				
14.4.	Packing g	group	Ш				
14 5	Environm	nental hazards					
4.5.			not applicable				
		sport (ADR/RID)	not applicable				
	Marine po		not applicable				
4.6.		precautions for us					
	Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage. Advices on safe handling: see parts 6 - 8						
	Further in	nformation					
	Land tran	nsport (ADR/RID)					
	tunnel res	triction code	D/E				
	Sea trans	sport (IMDG)					
	EmS-No.		F-E, S-E				
	Air transı	port (ICAO-TI / IAT	A-DGR)				
47	-		g to Annex II of Marpol and the IBC Coo				
14.7.			g to Annex if of Marpol and the IBC Cot				
	not applic						
SEC	TION 15:	Regulatory info	mation				
15.1.	Safety, he	ealth and environ	nental regulations/legislation specific f	or the substance or mixture			
	EU legislation						
	Directive 2010/75/EU on industrial emissions VOC-value (in g/L): 428						
	National regulations						
	Restrictions of occupation Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).						
		Other regulations, restrictions and prohibition regulations					
15.2.	-	Safety Assessme					
		•	es of this preparation a chemical safety	assessment has been carried out:			
	EC No.	-	ical name	REACH No.			
	CAS No. 500-060-2 28182-81		examethylene diisocyanate homopolymer	01-2119485796-17			

114-4201

Article No .:

FEYCARBON Härter HS 420

999998 EN Print date: 21.11.2018 Revision date: 11.10.2018 Version: Issue date: 11.10.2018 Page 8 / 8 204-658-1 n-butyl acetate 01-2119485493-29 123-86-4 205-500-4 Ethyl acetate 01-2119475103-46 141-78-6 **SECTION 16: Other information** Full text of classification 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 Specific target organ toxicity (single May cause respiratory irritation. exposure) Flam. Liq. 3 / H226 Flammable liquids Flammable liquid and vapour. STOT SE 3 / H336 Specific target organ toxicity (single May cause drowsiness or dizziness. exposure) Flam. Lig. 2 / H225 Flammable liquids Highly flammable liquid and vapour. Serious eye damage/eye irritation Eye Irrit. 2 / H319 Causes serious eye irritation. Abbreviations and acronyms ADR Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road) AGW (WEL) Occupational Exposure Limit Value CAS **Chemicals Abstract Service** CLP Classification, Labelling and Packaging CMR Carcinogenic, Mutagenic and Reprotoxic Derived No-Effect Level DNEL IATA-DGR International Air Transport Association – Dangerous Goods Regulations ICAO-TI International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air IMDG Code International Maritime Code for Dangerous Goods PBT persistent, bioaccumulative, toxic PNEC Predicted No Effect Concentration Registration, Evaluation, Authorisation and Restriction of Chemicals REACH Règlement concernant le transport international ferroviaire de marchandises Dangereuses RID (Regulations concerning the International Carriage of Dangerous Goods by Rail) UN United Nations LC Lethal Concentration LD Lethal Dose VOC Volatile Organic Compounds very persistent and very bioaccumulative vPvB

FEYCOLOR[®]

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 chapter 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.