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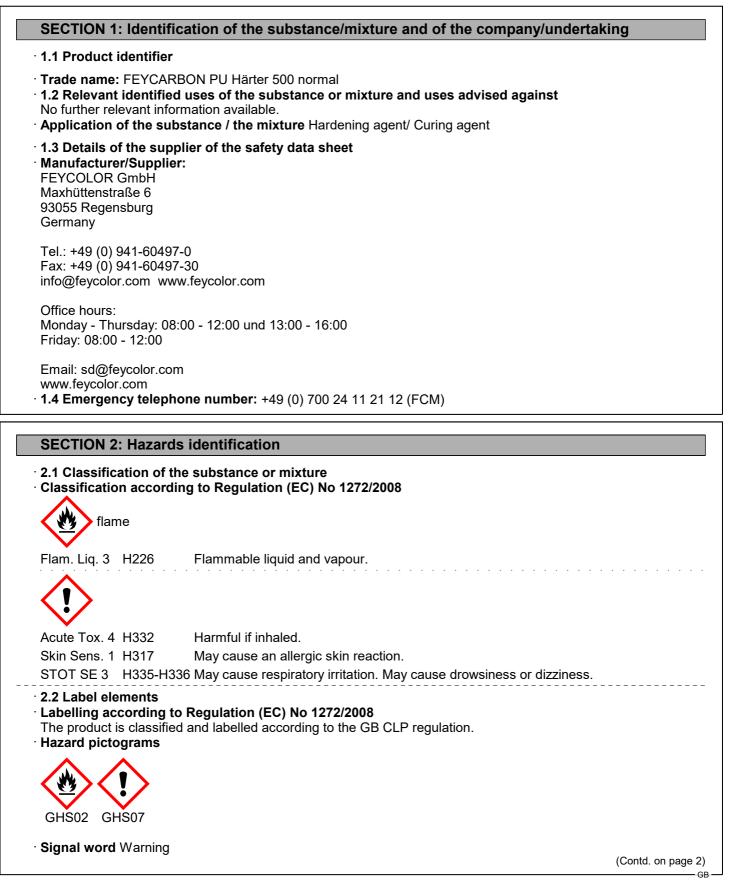
# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 01.02.2023

Version number 4 (replaces version 3)

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Trade name: FEYCARBON PU Härter 500 normal

	(Contd. of page 2
Hazard-dete	rmining components of labelling:
	ne diisocyanate, oligomers
2-Butoxyethy	
n-Butyl aceta	
	methylethyl acetate
Hazard state	
	Flammable liquid and vapour.
H332 F	Harmful if inhaled.
	Aay cause an allergic skin reaction.
	Aay cause an anergic skin reaction. Aay cause respiratory irritation. May cause drowsiness or dizziness.
	ry statements
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. N
1210	smoking.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
	P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [c
1 000 1 001	shower].
P304+P340	•
P312	
Additional in	
	eated exposure may cause skin dryness or cracking.
	tains isocyanates. May produce an allergic reaction.
	professional users.
2.3 Other ha	•
	BT and vPvB assessment
PBT: Not app	
vPvB: Not ap	oplicable.

# **SECTION 3: Composition/information on ingredients**

· 3.2 Mixtures

Г

· Description: Mixture of substances listed below with nonhazardous additions.

### · Dangerous components:

Dangerous components.		
CAS: 28182-81-2 NLP: 500-060-2 Reg.nr.: 01-2119485796-17	Hexamethylene diisocyanate, oligomers Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335, EUH204	50-100%
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	n-Butyl acetate	10-25%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	2-Methoxy-1-methylethyl acetate ♦ Flam. Liq. 3, H226; ♦ STOT SE 3, H336	10-25%
CAS: 112-07-2 EINECS: 203-933-3 Reg.nr.: 01-2119475112-47	2-Butoxyethyl acetate Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	5-<10%
CAS: 822-06-0 EINECS: 212-485-8 Reg.nr.: 01-2119457571-37	hexamethylene-di-isocyanate Acute Tox. 2, H330; Resp. Sens. 1, H334; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204 Specific concentration limits: Resp. Sens. 1; H334: $C \ge 0.5$ % Skin Sens. 1; H317: $C \ge 0.5$ %	<0.1%
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· Additional information: For the wording of the listed hazard phrases refer to section 16.

# **SECTION 4: First aid measures**

- · 4.1 Description of first aid measures
- General information:
- Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

In case of irregular breathing or respiratory arrest provide artificial respiration.

- After inhalation:
- Supply fresh air and to be sure call for a doctor.
- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately rinse with water.
- · After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- $^{\circ}$  4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

### **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Nitrogen oxides (NOx)

Carbon monoxide (CO)

Hydrogen cyanide (HCN)

- 5.3 Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

## **SECTION 6: Accidental release measures**

• 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.

- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Contain and collect spillages with non-combustible absorbent materials (e.g. sand, earth, diatomaceous earth) and place in a suitable container.

Decontaminate immediately with suitable mixture (flammable):

- as such usable (inflammatory!):	
water	45 Vol.%
ethanol or isopropanol	50 Vol.%
ammonia solution (Density= 0.88)	5 Vol.%
- alternatively (non-flammable).	

alternatively (non-flammable):



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sodium carbonate water 5 Vol.% 95 Vol.%

Add the same decontaminant to any residues and allow to stand for several days in an non-sealed container until no further reaction occurs. Once this stage is reached, close the container and dispose of in accordance with the waste regulations (see Section 13).

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## **SECTION 7: Handling and storage**

### · 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Persons with a history of asthma, allergies or chronic or recurrent respiratory diseases should only be employed in processes in which this product is used under appropriate medical supervision.

### Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

### · 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility:

Do not store together with reducing agents, heavy-metal compounds, acids and alkalis. Store away from foodstuffs.

#### • Further information about storage conditions: Keep container tightly sealed.

Store separately from oxidising agents, strongly alkaline and strongly acidic materials, amines, alcohol and water.

• Storage class: 3

• 7.3 Specific end use(s) No further relevant information available.

### **SECTION 8: Exposure controls/personal protection**

· 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

28182-81-2 Hexamethylene diisocyanate, oligomers

EBW Short-term value: 0.5 mg/m<sup>3</sup> exposition evaluation valu TRGS 430 (EBW)

## 123-86-4 n-Butyl acetate

WEL Short-term value: 966 mg/m<sup>3</sup>, 200 ppm

Long-term value: 724 mg/m<sup>3</sup>, 150 ppm

## 108-65-6 2-Methoxy-1-methylethyl acetate

WEL Short-term value: 548 mg/m<sup>3</sup>, 100 ppm

Long-term value: 274 mg/m³, 50 ppm Sk

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112-0	7-2 2-Butoxyethyl acetate
WEL	Short-term value: 332 mg/m³, 50 ppm Long-term value: 133 mg/m³, 20 ppm Sk
822-0	6-0 hexamethylene-di-isocyanate
	Short-term value: 0.07 mg/m <sup>3</sup> Long-term value: 0.02 mg/m <sup>3</sup> Sen; as -NCO
Inaro	
-	dients with biological limit values:
	6-0 hexamethylene-di-isocyanate
BMG	/ 1 µmol creatinine/mol
	Medium: urine
	Sampling time: At the end of the period od exposure Parameter: isocyanate-derived diamine
Addit	ional information: The lists valid during the making were used as basis.
lmme Wash	ral protective and hygienic measures: diately remove all soiled and contaminated clothing hands before breaks and at the end of work. iratory protection:
	In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longe exposure use self-contained respiratory protective device.
Due te	<b>protection</b> o missing tests no recommendation to the glove material can be given for the product/ the preparation/ th ical mixture. tion of the glove material on consideration of the penetration times, rates of diffusion and the degradation
	Protective gloves (EN 374)
	love material has to be impermeable and resistant to the product/ the substance/ the preparation. ial of gloves
The s and v	election of the suitable gloves does not only depend on the material, but also on further marks of qualit aries from manufacturer to manufacturer. As the product is a preparation of several substances, th ance of the glove material can not be calculated in advance and has therefore to be checked prior to th

application. Breakthrough time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

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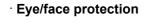
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Tightly sealed goggles

SECTION 9: Physical and chemical properties		
· 9.1 Information on basic physical and chemical properties		
· General Information		
· Physical state	Fluid	
· Colour:	According to product specification	
· Odour:	Characteristic	
· Odour threshold:	Not determined.	
<ul> <li>Melting point/freezing point:</li> </ul>	Undetermined.	
Boiling point or initial boiling point and boiling		
range	124-128 °C (123-86-4 n-Butyl acetate)	
· Flammability	Flammable.	
• Lower and upper explosion limit		
· Lower:	1.2 Vol % (123-86-4 n-Butyl acetate)	
· Upper:	10.8 Vol % (108-65-6 2-Methoxy-1-methylethyl acetate)	
· Flash point:	27 °C (DIN 53213)	
Ignition temperature:	280 °C (DIN 51794, 112-07-2 2-Butoxyethyl acetate)	
Decomposition temperature:	Not determined.	
· pH	Not determined.	
· Viscosity:		
Kinematic viscosity at 20 °C	10-15 s (DIN 53211/4)	
· Dynamic:	Not determined.	
Solubility		
water:	Not miscible or difficult to mix.	
<ul> <li>Partition coefficient n-octanol/water (log value)</li> </ul>	Not determined.	
· Vapour pressure at 20 °C:	10.7 hPa (123-86-4 n-Butyl acetate)	
<ul> <li>Density and/or relative density</li> </ul>		
· Density at 20 °C:	1.036 g/cm <sup>3</sup> (DIN 53217)	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· 9.2 Other information		
· Appearance:		
· Form:	Fluid	
· Important information on protection of health and		
environment, and on safety.	-	
· Auto-ignition temperature:	Product is not selfigniting.	
• Explosive properties:	Product is not explosive. However, formation of explosive	
i i i ritiri	air/vapour mixtures are possible.	
· Solvent content:	. ,	
· VOC (EC)	45.99 %	
· Solids content (weight-%):	54.0 %	
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Change in condition		
Evaporation rate	Not determined.	
Information with regard to physical hazard class	ses	
Explosives	Void	
Flammable gases	Void	
Aerosols	Void	
Oxidising gases	Void	
Gases under pressure	Void	
Flammable liquids	Flammable liquid and vapour.	
Flammable solids	Void	
Self-reactive substances and mixtures	Void	
Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit flammable	e	
gases in contact with water	Void	
Oxidising liquids	Void	
Oxidising solids	Void	
Organic peroxides	Void	
Corrosive to metals	Void	
Desensitised explosives	Void	

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

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.

· 10.6 Hazardous decomposition products:

Possible in traces. Nitrogen oxides Hydrogen chloride (HCI) Hydrogen cyanide (prussic acid) Carbon monoxide Nitrogen oxides (NOx)

## **SECTION 11: Toxicological information**

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

- · Acute toxicity Harmful if inhaled.
- · Respiratory or skin sensitisation May cause an allergic skin reaction.
- STOT-single exposure May cause respiratory irritation. May cause drowsiness or dizziness.

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### · 11.2 Information on other hazards

## Endocrine disrupting properties

None of the ingredients is listed.

### **SECTION 12: Ecological information**

### · 12.1 Toxicity

- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- vPvB: Not applicable.
- 12.6 Endocrine disrupting properties
- The product does not contain substances with endocrine disrupting properties.
- 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) : slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### **SECTION 13: Disposal considerations**

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

14.1 UN number or ID number	1014000	
ADR, IMDG, IATA	UN1263	
14.2 UN proper shipping name		
ADR	UN1263 PAINT RELATED MATERIAL	
· IMDG, IATA	PAINT RELATED MATERIAL	
<ul> <li>14.3 Transport hazard class(es)</li> <li>ADR</li> </ul>		
· Class	3 (F1) Flammable liquids.	

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· Label	3
· IMDG, IATA	
· Class	3 Flammable liquids.
· Label	3
· 14.4 Packing group · ADR, IMDG, IATA	III
<ul> <li>14.5 Environmental hazards:</li> <li>Marine pollutant:</li> </ul>	No
<ul> <li>14.6 Special precautions for user</li> </ul>	Warning: Flammable liquids.
• Hazard identification number (Kemler code):	30
· EMS Number: · Stowage Category	F-E, <u>S-E</u> A
<ul> <li>14.7 Maritime transport in bulk according to IM instruments</li> </ul>	Not applicable.
· Transport/Additional information:	
· ADR	
Limited quantities (LQ)	5L
Transport category	3
· Tunnel restriction code	D/E
<ul> <li>IMDG</li> <li>Limited quantities (LQ)</li> </ul>	5L
· UN "Model Regulation":	UN 1263 PAINT RELATED MATERIAL, 3, III
	UN 1203 FAINT RELATED WATERIAL, 3, III

## **SECTION 15: Regulatory information**

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

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

• Seveso category P5c FLAMMABLE LIQUIDS

· Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t

· National regulations:

Additional classification according to Decree on Hazardous Materials, Annex II:

Class Share in % NK 25-50

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### Relevant phrases

- Flammable liquid and vapour. H226
- Harmful if swallowed. H302
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H330 Fatal if inhaled.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

EUH204 Contains isocyanates. May produce an allergic reaction.

Classification according to Regulation (EC) No 1272/2008

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

- VOC: Volatile Organic Compounds (USA, EU)
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 2: Acute toxicity – Category 2 Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

Resp. Sens. 1: Respiratory sensitisation - Category 1

Skin Sens. 1: Skin sensitisation - Category 1

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

\*\* Data compared to the previous version altered.