acco	according to Regulation (EU) 2015/830					
Article Print o Versio	date: 21.11.2		FEYCARBON Härt Revision date: 11.1 Issue date: 11.10.2	0.2018	999998 EN	FEYCOLOR®
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SEC	TION 1: Identificat	ion of the	e substance/mixtu	ire and of the com	ipany/undertaking	g
1.1.	product identifiers					
	Article No. (manufaction of the state)		,	114-4203 FEYCARBON Härt langsam	er HS 420	
1.2.	Relevant identified	uses:	ne substance or mix		sed against	
1.3.	Details of the supp			-		
	manufacturer FEYCOLOR GmbH Maxhuettenstraße 6 93055 Regensburg			Telephone: 0049 (0 Telefax: 0049 (0)94 E-mail info@feycol Website: www.feyc	41/60 49 7-30 or.com	
	<b>Dept. responsible f</b> Department for dang E-mail (competent p	jerous goo		0049 (0)941/60 49 sd@feycolor.com	7-0	
1.4.	Emergency telephor Emergency telephor Österreichische Ver	ne number		+49 (0) 700 24 11 2 +43 (0) 1406 43 43		
SEC	TION 2: Hazards id	lentificat	ion			
2.1.	Classification of th	e substan	ce or mixture			
			Regulation (EC) No 1	272/2008 [CLP]		
		-	zardous according to		1272/2008 [CLP].	
	Flam. Liq. 3 / H226 Skin Sens. 1 / H317 STOT SE 3 / H335		Flammable liquids Respiratory or skin Specific target orga exposure)			iid and vapour. allergic skin reaction. piratory irritation.
2.2.	Label elements					
			lation (EC) No. 1272	/2008 [CLP]		
	Hazard pictograms					
		> 1	Varning			
	Hazard statements H226 H317 H335 Precautionary state P210 P241 P280 P303 + P361 + P353 P304 + P340 P308 + P313 P405 P501 Hazard component	May cau May cau ements Keep av Use exp Wear pr B IF ON S IF INHA IF expose Keep loo Dispose s for labe	losion-proof electrica otective gloves and e KIN (or hair): Take o LED: Remove persor sed or concerned: Ge cked up. of contents/containe	eaction. on. Ifaces, sparks, open al equipment. eye/face protection. ff immediately all con n to fresh air and kee et medical advice/atte	taminated clothing. p comfortable for brention.	nition sources. No smoking. Rinse skin with water [or shower]. eathing.
	Supplemental Haza					
	EUH204		s isocyanates. May p	roduce an allergic re	action.	
2.3.	Other hazards					



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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

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	
203-603-9	01-2119475791-29	
108-65-6	2-methoxy-1-methylethyl acetate	25 < 50
607-195-00-7	Flam. Liq. 3 H226	
259-370-9	01-2119475116-39	
54839-24-6	2-ethoxy-1-methylethyl acetate	12,5 < 20
603-177-00-8	Flam. Liq. 3 H226 / STOT SE 3 H336	
204-658-1	01-2119485493-29	
123-86-4	n-butyl acetate	5 < 10
607-025-00-1	Flam. Liq. 3 H226 / 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: alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

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# **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:

2-methoxy-1-methylethyl acetate INDEX No. 607-195-00-7 / EC No. 203-603-9 / CAS No. 108-65-6



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WEL, TWA: 274 mg/m3; 50 ppm WEL, STEL: 548 mg/m3; 100 ppm

n-butyl acetate

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

### 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:	Liquid
Colour:	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:	124 °C
	Source: n-butyl acetate
Flash point:	27 °C
Evaporation rate:	not applicable
Flammability (solid, gas):	
Burning time (s):	not applicable
Upper/lower flammability or explosive limits:	
Lower explosion limit:	1,68 Vol-%
Upper explosion limit:	10,4 Vol-%
	Source: n-butyl acetate



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	Vapour pre	essure at20 °C:		1,9326 mbar	
	Vapour de			not applicable	
	Relative de				
	Density at			1,05 g/cm³	
	Solubility(i	,		partially caluble	
		ubility (g/L) at20 °C pefficient: n-octand		partially soluble see section 12	
		on temperature:	Ji/water.	180 °C	
	Auto-iginti	on temperature.		Source: Triethyle	orthoformiate
	Decompos	ition temperature:		not applicable	
	Viscosity a	t20 °C:		> 13 s 4 mm Method: DIN 532	11
	Explosive	properties:		not applicable	
	Oxidising	properties:		not applicable	
9.2.	Other infor	mation			
	Solid conte	ent (%):		56 Wt %	
	solvent con Organic s Water:			44,10 Wt % 0.00 Wt %	
		paration test (%):		< 3 Wt % (ADR/R	ID)
SEC.		tability and react	ivity		··- )
	Reactivity	tion available.	IVILY		
10.2.	Chemical s	stability	nmended regulati	ions for storage an	d handling. Further information on correct storage: refer to
10.3.	Possibility	of hazardous reac from strong acids, s		strong oxidizing ag	ents to avoid exothermic reactions.
10.4.	Conditions Hazardous	to avoid decomposition bypr	oducts may form	with exposure to h	igh temperatures.
10.5.	-	<b>ble materials</b> tion available.			
10.6.	Hazardous	decomposition pr decomposition bypr ogen oxides.		with exposure to I	nigh temperatures, e.g.: carbon dioxide, carbon monoxide,
SEC	TION 11: T	oxicological info	rmation		
		on according to Reg preparation itself av	· · ·	272/2008 [CLP]	
11.1.	Informatio	n on toxicological	effects		
	Acute toxic	city, calculated:			
	ATEmix cal	culated, inhalative (	vapours): > 20 mg	g/l	
	Acute toxic	city			
	dermal, LI inhalative inhalative	1-methylethyl acetat D50, Rabbit: > 5000 (dust and mist), LC (vapours), LC50:, R	mg/kg 50, Rat: 35,7 mg/l	(4 h) (6 h)	
		ate ), Rat: 14000 mg/kg (vapours), LC50, Ra	at: > 21 mg/l (4	h)	
		$(\cdot$	A	,	

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### Harmful if inhaled.

### skin corrosion/irritation; Serious eye damage/eye irritation

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

### 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

2-methoxy-1-methylethyl acetate Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): > 134 mg/l (96 h) Daphnia toxicity, EC50, Daphnia magna (Big water flea): 408 mg/l (48 h) Fish toxicity, LC50:: 161 mg/l (96 h)

## Long-term Ecotoxicity

2-methoxy-1-methylethyl acetate Fish toxicity, NOEC, Oryzias latipes (Ricefish): 47,5 mg/l (14 d) Daphnia toxicity, NOEC, Daphnia magna (Big water flea): > 100 mg/l (21 h)

### 12.2. Persistence and degradability

# No information available.

# 12.3. Bioaccumulative potential

2-methoxy-1-methylethyl acetate Partition coefficient: n-octanol/water: 1,2

### **Bioconcentration factor (BCF)**

No information available.

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment



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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

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

### List of proposed waste codes/waste designations in accordance with EWC

080111 Waste paint and varnish containing organic solvents or other dangerous substances

# packaging

### Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

### **SECTION 14: Transport information**

### 14.1. UN number

		UN 1263
14.2.	<b>UN proper shipping name</b> Land transport (ADR/RID): Sea transport (IMDG): Air transport (ICAO-TI / IATA-DGR):	Paint related material PAINT RELATED MATERIAL Paint related material
14.3.	Transport hazard class(es)	
		3
14.4.	Packing group	
		III
14.5.	Environmental hazards	
	Land transport (ADR/RID)	not applicable
	Marine pollutant	not applicable
14.6.	Special precautions for user	
	Transport always in closed, upright and saf	e 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 information**

Land transport (ADR/RID)	
tunnel restriction code	D/E
Sea transport (IMDG)	
EmS-No.	F-E, S-E
Air transport (ICAO-TI / IATA-DGR)	

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

not applicable

# **SECTION 15: Regulatory information**

 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture EU legislation
Directive 2010/75/EU on industrial emissions
VOC-value (in g/L): 447
National regulations
Restrictions of occupation

# Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.



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Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

### Other regulations, restrictions and prohibition regulations

### 15.2. Chemical Safety Assessment

EC No.	Chemical name	REACH No.	
CAS No.			
500-060-2	1,6-Hexamethylene diisocyanate homopolymer	01-2119485796-17	
28182-81-2			
203-603-9	2-methoxy-1-methylethyl acetate	01-2119475791-29	
108-65-6			
259-370-9	2-ethoxy-1-methylethyl acetate	01-2119475116-39	
54839-24-6			
204-658-1	n-butyl acetate	01-2119485493-29	
123-86-4			

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

Full text of classifi	cation 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 exposure)	May cause respiratory irritation.	
Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.	
STOT SE 3 / H336	Specific target organ toxicity (single exposure)	May cause drowsiness or dizziness.	
Abbreviations and	acronyms		
ADR		des marchandises dangereuses par route (Europear	
	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		
DNEL	Derived No-Effect Level		
IATA-DGR	International Air Transport Association – Dangero	us Goods Regulations	
ICAO-TI	International Civil Aviation Organization Technic	al Instructions for the Safe Transport of Dangerous	
	Goods by Air		
IMDG Code	International Maritime Code for Dangerous Goods	3	
PBT	persistent, bioaccumulative, toxic		
PNEC	Predicted No Effect Concentration		
REACH	Registration, Evaluation, Authorisation and Restri	ction of Chemicals	
RID	Règlement concernant le transport internat	ional ferroviaire de marchandises Dangereuses	
	(Regulations concerning the International Carriag	e of Dangerous Goods by Rail)	
UN	United Nations		
LC	Lethal Concentration		
LD	Lethal Dose		
VOC	Volatile Organic Compounds		
vPvB	very persistent and very bioaccumulative		
Further informatio	n		

### **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.