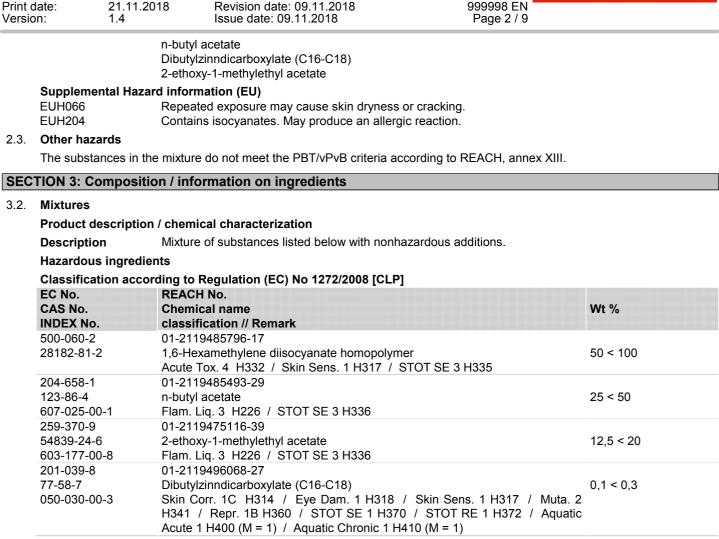
ا . : اسم	Net	10 000 4			FEYCOLOR®
Article Print d Versio	ate: 2	13-200-1 1.11.2018 4	REDOCRYL Revision date: 09. Issue date: 09.11.		999998 EN Page 1 / 9
SECT	FION 1: Ident	ification of tl	ne substance/mixtu	ure and of the comp	any/undertaking
1.1.	product ident	ifiers			
	Article No. (ma Identification of	anufacturer/sup f the substanc		113-200-1 REDOCRYL Härter 200 kurz	
1.2.	Relevant iden	tified uses:	the substance or mix	xture and uses advise	ed against
1.3.			e safety data sheet	oddingo	
	manufacturer FEYCOLOR G Maxhuettenstr 93055 Regens	mbH aße 6		Telephone: 0049 (0) Telefax: 0049 (0)941 E-mail info@feycolo Website: www.feyco	/60 49 7-30 r.com
	Dept. response Department fo E-mail (compe	r dangerous go		0049 (0)941/60 49 7 sd@feycolor.com	-0
1.4.	Emergency tel Emergency tel Österreichisch	ephone numbe		+49 (0) 700 24 11 2 [,] +43 (0) 1406 43 43	1 12 (FCM)
SECT	FION 2: Haza	rds identifica	ation		
2.1.	Classification	of the substa	ince or mixture		
	Classification	according to	Regulation (EC) No	1272/2008 [CLP]	
	The mixture is	classified as h		o regulation (EC) No 12	272/2008 [CLP].
	Flam. Liq. 3 / H		Flammable liquids		Flammable liquid and vapour.
	Acute Tox. 4 / Skin Sens. 1 / STOT SE 3 / H	H317	Acute toxicity (inha Respiratory or skin Specific target orga exposure)	sensitisation	Harmful if inhaled. May cause an allergic skin reaction. May cause respiratory irritation.
	STOT SE 3 / H	1336	Specific target orga exposure)	an toxicity (single	May cause drowsiness or dizziness.
2.2.	Label elemen				
			ulation (EC) No. 1272	2/2008 [CLP]	
	Hazard pictog	jrams			
			Warning		
	Hazard staten				
	H226 H332		able liquid and vapou ul if inhaled.	r.	
	H317	May ca	ause an allergic skin r		
	H335 H336		ause respiratory irritati ause drowsiness or diz		
	Precautionary	-		22111055.	
	P210	Keep a	-		ames and other ignition sources. No smoking.
	P261 P280		breathing dust/fume/g protective gloves and	as/mist/vapours/spray. eve/face protection.	
		P353 IF ON IF INH	SKIN (or hair): Take c	off immediately all conta	aminated clothing. Rinse skin with water [or shower] comfortable for breathing.
	Hazard comp		elling examethylene diisocya	nate homopolymer	

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REDOCRYL

113-200-1

Article No.:



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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

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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)

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.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values:

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: 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:	124 °C Source: n-butyl acetate
Flash point:	28 °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:	1,2 Vol-% 7,5 Vol-%



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	Vapour pre	essure at20 °C:		10,7 mbar		
	Vapour de	nsity:		not applicable		
	Relative de Density at	20 °C:		1,03 g/cm³		
	Solubility(i	es): ıbility (g/L) at20 °(~.	insoluble		
		pefficient: n-octan		see section 12		
		on temperature:	ion water.	370 °C		
	•	ition temperature	:	not applicable		
	Viscosity a	-		13 s 4 mm Method: DIN		
	Explosive	properties:		not applicable		
	Oxidising p	properties:		not applicable		
9.2.	Other infor	mation				
	Solid conte	ent (%):		55 Wt %		
	solvent con Organic s Water:			44,60 Wt % 0,00 Wt %		
	Solvent se	paration test (%):		< 3 Wt % (ADR/R	lD)	
SEC	TION 10: S	tability and reac	tivity			
10.1.	Reactivity No informat	tion available.				
10.2.	Chemical stability Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.					
10.3.		of hazardous reading from strong acids,		strong oxidizing ag	ents to avoid exothermic	reactions.
10.4.	Conditions Hazardous	to avoid decomposition byp	oroducts may form	with exposure to h	igh temperatures.	
10.5.	•	ble materials tion available.				
10.6.	Hazardous	decomposition p decomposition byp ogen oxides.		with exposure to I	nigh temperatures, e.g.:	carbon dioxide, carbon monoxide,
SEC	TION 11: T	oxicological info	ormation			
		on according to Reg preparation itself a	• • •	272/2008 [CLP]		
11.1.	Information	n on toxicological	effects			
	Acute toxicity, calculated:					
	ATEmix calculated, inhalative (vapours): 20 mg/l					
	Acute toxicity					
		tate), Rat: 14000 mg/kg (vapours), LC50, F		h)		
		ethylene diisocyana (vapours), LC50, F inhaled.				
	skin corros	sion/irritation; Ser	ious eye damage	/eye irritation		
	Based on a	vailable data the c	lassification criteri	a aro not mot		

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

Respiratory or skin sensitisation



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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

EC No.	Designation:	Classification according to EC
CAS No.		regulation 1272/2008 (CLP):
201-039-8 77-58-7	Dibutylzinndicarboxylate (C16-C18)	Repr. 1B

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

Dibutylzinndicarboxylate (C16-C18) Fish toxicity, LC50: (96 h)

Long-term Ecotoxicity

Dibutylzinndicarboxylate (C16-C18) Fish toxicity, LC50: (96 h)

- 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



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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.	UN proper shipping name 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	Ш	
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 safe containers. Make sure that persons transporting the product know what 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		
SEC	TION 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): 456 National regulations		
		ernity Protection Directive (92/85/EEC) for expectant or nursing mothers. according to the 'juvenile work protection guideline' (94/33/EC).	
	Other regulations, restrictions and prohibitio	n regulations	
15.2.	Chemical Safety Assessment For the following substances of this preparation a chemical safety assessment has been carried out:		

	-	-
EC No.	Chemical name	REACH No.

FEYCOLOR® 113-200-1 21.11.2018 1.4 Article No.: REDOCRYL Revision date: 09.11.2018 999998 EN Print date: Version: Issue date: 09.11.2018 Page 8 / 9 CAS No. 500-060-2 1,6-Hexamethylene diisocyanate homopolymer 01-2119485796-17 28182-81-2 204-658-1 n-butyl acetate 01-2119485493-29 123-86-4 259-370-9 2-ethoxy-1-methylethyl acetate 01-2119475116-39 54839-24-6 201-039-8 Dibutylzinndicarboxylate (C16-C18) 01-2119496068-27 77-58-7

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 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.		
Skin Corr. 1C / H314	skin corrosion/irritation	Causes severe skin burns and eye damage.		
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.		
Muta. 2 / H341	Germ cell mutagenicity	Suspected of causing genetic defects (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).		
Repr. 1B / H360	Reproductive toxicity	May damage fertility. May damage the unborn child.		
STOT SE 1 / H370	Specific target organ toxicity (single exposure)	Causes damage to organs (or state all organs affected, if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).		
STOT RE 1 / H372	Specific target organ toxicity (repeated exposure)	Causes damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).		
Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	Hazardous to the aquatic environment Hazardous to the aquatic environment	Very toxic to aquatic organisms. Very toxic to aquatic life with long lasting effects.		

Abbreviations and acronyms

Appreviations 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
DNEL	Derived No-Effect Level
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
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport international ferroviaire de marchandises Dangereuses
	(Regulations concerning the International Carriage of Dangerous Goods by Rail)
UN	United Nations
LC	Lethal Concentration
LD	Lethal Dose
VOC	Volatile 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 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.