Article Print da /ersio	ate: 21.11.20)18 Revision	PUR 641 HS Kernklebelack date: 24.10.2018 te: 11.10.2018	999998 EN Page 1 / 9
			ice/mixture and of the co	-
		on of the substar	ice/mixture and of the co	mpany/undertaking
	product identifiers Article No. (manufact Identification of the su		641 FEYCOPUR 641 für alle Farbtöne Gew-MV: 8:1 mit	HS Kernklebelack 114-621
	Relevant identified u 2 component polyure	uses: thane coating for pa	nce or mixture and uses adv	-
	Details of the suppli manufacturer FEYCOLOR GmbH Maxhuettenstraße 6 93055 Regensburg	ier of the safety dat	Telephone: 0049 Telefax: 0049 (0) E-mail info@feyc Website: www.fey	941/60 49 7-30 olor.com
	Dept. responsible for Department for dange E-mail (competent pe	erous goods	0049 (0)941/60 4 sd@feycolor.com	
	Emergency telephone Emergency telephone Österreichische Verg	e number	+49 (0) 700 24 1 ² entrale +43 (0) 1406 43 4	
SECT	ION 2: Hazards ide	entification		
2.	The mixture is classif Flam. Liq. 3 / H226 Skin Sens. 1 / H317 Aquatic Chronic 2 / H Label elements	ied as hazardous ac Flammab Respirato 411 Hazardou	ory or skin sensitisation is to the aquatic environment	Flammable liquid and vapour. May cause an allergic skin reaction.
	Labelling according Hazard pictograms	to Regulation (EC) No. 1272/2008 [CLP] Warning	
	Hazard statements H226 H317 H411 Precautionary state P210	ments	gic skin reaction. with long lasting effects.	n flames and other ignition sources. No smoking.
	P233 P241 P261 P280	Keep container tig Use explosion-pro Avoid breathing du Wear protective gl IF ON SKIN (or ha IF exposed or con Store in a well-ven	htly closed. of electrical equipment. ist/fume/gas/mist/vapours/spr oves and eye/face protection.	ay. ontaminated clothing. Rinse skin with water [or shower ttention.
		for labelling		
	Hazard components	bis(1,2,2,6,6-penta	methyl-4-piperidyl)sebacate entamethyl-4-piperidyl sebaca	ate

FEYCOLOR°

Article No.:	641	FEYCOPUR 641 HS Kernklebelack		
Print date:	21.11.2018	Revision date: 24.10.2018	999998 EN	
Version:	3.0	Issue date: 11.10.2018	Page 2 / 9	

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	Zubereitung aus Bindemittel, Pigment,			
	Füllstoff und Lösemittel			

Hazardous ingredients

EC No.	cording to Regulation (EC) No 1272/2008 [CLP] REACH No.	
CAS No.	Chemical name	Wt %
INDEX No.	classification // Remark	
204-658-1	01-2119485493-29	
123-86-4	n-butyl acetate	12,5 < 20
607-025-00-1	Flam. Liq. 3 H226 / STOT SE 3 H336	
231-944-3	01-2119485044-40	
7779-90-0	trizinc bis(orthophosphate)	1 < 5
030-011-00-6	Aquatic Acute 1 H400 / Aquatic Chronic 1 H410	
203-603-9	01-2119475791-29	
108-65-6	2-methoxy-1-methylethyl acetate	1 < 5
607-195-00-7	Flam. Liq. 3 H226	
212-112-9	01-2119463267-34	
763-69-9	Ethyl beta-ethoxypropionate	1 < 5
	Flam. Liq. 3 H226	
255-437-1	01-2119491304-40	
41556-26-7	bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate	1 < 5
	Skin Sens. 1 H317 / Aquatic Acute 1 H400 / Aquatic Chronic 1 H410	
259-370-9	01-2119475116-39	
54839-24-6	2-ethoxy-1-methylethyl acetate	1 < 5
603-177-00-8	Flam. Liq. 3 H226 / STOT SE 3 H336	
280-060-4		
82919-37-7	Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	0,1 < 0,3
	Skin Sens. 1 H317 / Aquatic Acute 1 H400 / Aquatic Chronic 1 H410	
215-222-5	01-2119463881-32	
1314-13-2	zinc oxide	0,1 < 0,3
030-013-00-7	Aquatic Acute 1 H400 / Aquatic Chronic 1 H410	

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.



Article No.:	641	FEYCOPUR 641 HS Kernklebelack		
Print date:	21.11.2018	Revision date: 24.10.2018	999998 EN	
Version:	3.0	Issue date: 11.10.2018	Page 3 / 9	

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)

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



Article No.:	641	FEYCOPUR 641 HS Kernklebelack		
Print date:	21.11.2018	Revision date: 24.10.2018	999998 EN	
Version:	3.0	Issue date: 11.10.2018	Page 4 / 9	

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

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

2-methoxy-1-methylethyl acetate

INDEX No. 607-195-00-7 / EC No. 203-603-9 / CAS No. 108-65-6

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

zinc oxide

INDEX No. 030-013-00-7 / EC No. 215-222-5 / CAS No. 1314-13-2

MEL/OES, TWA: 5 mg/m3 MEL/OES, STEL: 10 mg/m3 Remark: Smoke

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:					

Odour.

Liquid refer to label characteristic

rticle I rint da ersion	ate:	641 21.11.2018 3.0		641 HS Kernklebelack e: 24.10.2018 1.10.2018	999998 EN Page 5 / 9	FEYCOLOR
(Odour th	nreshold:		not applicable		
	pH at20 [°]	°C:		n.a.		
I	Melting	point/freezing poin	t:	not applicable		
I	Initial bo	iling point and boi	ling range:	98 °C Source: butan-2-ol		
I	Flash po	oint:		24 °C		
I	Evapora	tion rate:		not applicable		
I		bility (solid, gas): g time (s):		not applicable		
	Lower	wer flammability o explosion limit: explosion limit:	r explosive limi	ts: 2,11 Vol-% 10,4 Vol-% Source: n-butyl acetate		
,	Vapour p	oressure at20 °C:		1,781 mbar		
,	Vapour o	density:		not applicable		
I		density: at20 °C:		1,42 g/cm³		
	Solubilit Water s	y(ies): olubility (g/L) at20	°C:	insoluble		
I	Partition	coefficient: n-octa	anol/water:	see section 12		
1	Auto-ign	ition temperature:		315 °C Source: 2-methoxy-1-m	ethylethyl acetate	
I	Decomp	osition temperatur	e:	not applicable		
,	Viscosity	y at20 °C:		3500 mPa∙s		
I	Explosiv	e properties:		not applicable		
(Oxidisin	g properties:		not applicable		
.2. (Other in	formation				
ę	Solid content (%):		79 Wt %			
9	solvent o Organio Water:	content: c solvents:		21,38 Wt % 0,00 Wt %		
:	Solvent	separation test (%)	:	< 3 Wt % (ADR/RID)		
		Stability and rea		. ,		

No information 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. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4. Conditions to avoid

Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5. **Incompatible materials** No information available.

10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

SECTION 11: Toxicological information

Classification according to Regulation (EC) No 1272/2008 [CLP] No data on preparation itself available.

11.1. Information on toxicological effects



Article No.:	641	FEYCOPUR 641 HS Kernklebelack		1000
Print date:	21.11.2018	Revision date: 24.10.2018	999998 EN	
Version:	3.0	Issue date: 11.10.2018	Page 6 / 9	

Acute toxicity, calculated:

Acute toxicity

2-methoxy-1-methylethyl acetate dermal, LD50, Rabbit: > 5000 mg/kg inhalative (dust and mist), LC50, Rat: 35,7 mg/l (4 h) inhalative (vapours), LC50:, Rat: > 23,5 mg/kg (6 h)

n-butyl acetate

oral, LD50, Rat: 14000 mg/kg inhalative (vapours), LC50, Rat: > 21 mg/l (4 h)

Ethyl beta-ethoxypropionate oral, LD50, Rat: > 5000 mg/kg dermal, LD50, Rabbit: 4080 mg/kg inhalative (vapours), LC50, Rat: > 998 (6 h)

skin corrosion/irritation; Serious eye damage/eye irritation

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

Respiratory or skin sensitisation

bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate

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.

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)

Ethyl beta-ethoxypropionate

Fish toxicity, LC50, Pimephales promelas (fathead minnow): 88 mg/l (96 h) Daphnia toxicity, EC50, Daphnia magna (Big water flea): > 95 mg/l (48 h) Algae toxicity, ErC50, Selenastrum capricornutum: > 114,86 mg/l (72 h)

Long-term Ecotoxicity



Article No.: Print date: Version:	641 21.11.2018 3.0	FEYCOPUR 641 HS Kernklebelack Revision date: 24.10.2018 Issue date: 11.10.2018	999998 EN Page 7 / 9	

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)

Ethyl beta-ethoxypropionate Bioconcentration factor (BCF): < 100

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

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 PAINT Paint
14.3.	Transport hazard class(es)	3
14.4.	Packing group	III
14.5.	Environmental hazards	
	Land transport (ADR/RID)	UMWELTGEFÄHRDEND
	Marine pollutant	p / Trizinkbis (orthophosphat)
14.6.	Special precautions for user	
	Transport always in closed upright and as	to containers. Make ours that persons trapporting the product know what

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 information

Land transport (ADR/RID)

tunnel restriction code in packages <= 5 litres

D/E "No good according class 3"

FEYCOLOR°

Article No.: Print date:	641 21.11.2018	FEYCOPUR 641 HS Kernklebelack Revision date: 24.10.2018	999998 EN	
Version:	3.0	Issue date: 11.10.2018	Page 8 / 9	

Sea transport (IMDG)

EmS-No. in packages <= 5 litres

F-E, S-E Transport in accordance with 2.3.2.5 of the IMDG Code

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): 304

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds

VOC product category: (Cat. A/j) ; VOC limit value: 500 g/l

Maximum VOC content (g/L) of the product in a ready to use condition: 363

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. Chemical Safety Assessment

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

EC No.	Chemical name	REACH No.	
CAS No.			
204-658-1	n-butyl acetate	01-2119485493-29	
123-86-4			
231-944-3	trizinc bis(orthophosphate)	01-2119485044-40	
7779-90-0			
203-603-9	2-methoxy-1-methylethyl acetate	01-2119475791-29	
108-65-6			
212-112-9	Ethyl beta-ethoxypropionate	01-2119463267-34	
763-69-9			
255-437-1	bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate	01-2119491304-40	
41556-26-7			
259-370-9	2-ethoxy-1-methylethyl acetate	01-2119475116-39	
54839-24-6			
215-222-5	zinc oxide	01-2119463881-32	
1314-13-2			

SECTION 16: Other information

Full text of classifie	cation in section 3:					
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.				
Aquatic Acute 1 / H4	400 Hazardous to the aquatic environmen	t Very toxic to aquatic organisms.				
Aquatic Chronic 1 / I	H410 Hazardous to the aquatic environmen	t Very toxic to aquatic life with long lasting effects.				
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.				
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					

DNEL Derived No-Effect Level

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Article No.: Print date: Version:	641 21.11.2018 3.0	FEYCOPUR 641 HS Kernklebelack Revision date: 24.10.2018 Issue date: 11.10.2018	999998 EN Page 9 / 9	TERCEON			
IATA-DGR ICAO-TI		ional Air Transport Association – Dang ional Civil Aviation Organization Tech by Air	•				
IMDG Code PBT PNEC	persiste	onal Maritime Code for Dangerous Go nt, bioaccumulative, toxic ed No Effect Concentration	ods				
REACH	Registra Règlem	Registration, Evaluation, Authorisation and Restriction of Chemicals Règlement concernant le transport international ferroviaire de marchandises Dangereuses (Regulations concerning the International Carriage of Dangerous Goods by Rail)					
UN LC LD VOC vPvB	United N Lethal C Lethal D Volatile	Nations Concentration					

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.