

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830

FEYCOLOR®

Article No.: F244 FEYCOSIL 244 SI-Kunstharzlack 999998 EN
Print date: 12.03.2020 Revision date: 27.11.2019 Page 1 / 11
Version: 2.11 Issue date: 27.11.2019

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Article No. (manufacturer/supplier) F244
Trade name/designation FEYCOSIL 244 SI-Kunstharzlack
gültig für alle Farbtöne
hitzebeständig bis 300 Grad C

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses:

Heat resistant coating for parts exposed to heat

1.3. Details of the supplier of the safety data sheet

manufacturer

FEYCOLOR GmbH
Maxhuettenstraße 6
93055 Regensburg

Telephone: 0049 (0)941/60 49 7-0
Telefax: 0049 (0)941/60 49 7-30
E-mail info@feycolor.com
Website: www.feycolor.com

Dept. responsible for information:

Department for dangerous goods 0049 (0)941/60 49 7-0
E-mail (competent person) sd@feycolor.com

1.4. Emergency telephone number

Emergency telephone number +49 (0) 700 24 11 21 12 (FCM)
Österreichische Vergiftungsinformationszentrale +43 (0) 1406 43 43

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.
STOT RE 2 / H373	STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

2.2. Label elements

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

Hazard pictograms



Hazard statements

H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241 Use explosion-proof electrical equipment.
P280 Wear protective gloves and eye/face protection.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P405 Keep locked up.
P501 Dispose of contents/container to industrial incineration plant.

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830

FEYCOLOR®

Article No.: F244
Print date: 12.03.2020
Version: 2.11

FEYCOSIL 244 SI-Kunstharzlack
Revision date: 27.11.2019
Issue date: 27.11.2019

999998 EN
Page 2 / 11

Hazard components for labelling

Xylene

Supplemental Hazard information (EU)

EUH208 Contains Cobalt bis(2-ethylhexanoate); 2-butanone oxime. 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

Description Zusammensetzung aus Kunstharzen,

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

EC No.	REACH No.	Wt %
CAS No.	Designation	
INDEX No.	classification // Remark	
215-535-7	01-2119488216-32	
1330-20-7	Xylene	12,5 < 20
601-022-00-9	Acute Tox. 4 H312 / Acute Tox. 4 H332 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / STOT SE 3 H335 / STOT RE 2 H373 / Asp. Tox. 1 H304 / Flam. Liq. 3 H226	
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	
202-849-4	01-2119489370-35	
100-41-4	ethylbenzene	1 < 5
601-023-00-4	Acute Tox. 4 H332 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / STOT SE 3 H335 / STOT RE 2 H373 / Asp. Tox. 1 H304 / Flam. Liq. 2 H225	
265-199-0	01-2119455851-35	
64742-95-6	Solvent naphtha (petroleum), light arom.	1 < 5
649-356-00-4	Flam. Liq. 3 H226 / STOT SE 3 H335 / Aquatic Chronic 2 H411 / Asp. Tox. 1 H304 / STOT SE 3 H336	
919-857-5	01-2119463258-33	
	Solvent naphtha	1 < 5
	STOT SE 3 H336 / Asp. Tox. 1 H304 / Flam. Liq. 3 H226	
200-751-6	01-2119484630-38	
71-36-3	butan-1-ol	1 < 5
603-004-00-6	Flam. Liq. 3 H226 / Acute Tox. 4 H302 / STOT SE 3 H335 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / STOT SE 3 H336	
202-496-6	01-2119539477-28	
96-29-7	2-butanone oxime	0,1 < 0,3
616-014-00-0	Carc. 2 H351 / Acute Tox. 4 H312 / Eye Dam. 1 H318 / Skin Sens. 1 H317	
205-250-6	01-2119524678-29	
136-52-7	Cobalt bis(2-ethylhexanoate)	< 0,1
	Eye Irrit. 2 H319 / Skin Sens. 1A H317 / Repr. 1B H360 / Aquatic Acute 1 H400 / Aquatic Chronic 3 H412	

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

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830

FEYCOLOR®

Article No.: F244 FEYCOSIL 244 SI-Kunstharzlack
Print date: 12.03.2020 Revision date: 27.11.2019 999998 EN
Version: 2.11 Issue date: 27.11.2019 Page 3 / 11

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

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

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.

Further information

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

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830

FEYCOLOR®

Article No.: F244 FEYCOSIL 244 SI-Kunstharzlack
Print date: 12.03.2020 Revision date: 27.11.2019 999998 EN
Version: 2.11 Issue date: 27.11.2019 Page 4 / 11

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:

Xylene

INDEX No. 601-022-00-9 / EC No. 215-535-7 / CAS No. 1330-20-7

WEL, TWA: 220 mg/m³; 50 ppm

WEL, STEL: 441 mg/m³; 100 ppm

BMGV, TWA: 650 mmol/mol creatinine

Remark: methyl hippuric acid; urine; end of exposure or end of shift

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

ethylbenzene

INDEX No. 601-023-00-4 / EC No. 202-849-4 / CAS No. 100-41-4

WEL, TWA: 441 mg/m³; 100 ppm

WEL, STEL: 552 mg/m³; 125 ppm

Remark: (May be absorbed through the skin.)

butan-1-ol

INDEX No. 603-004-00-6 / EC No. 200-751-6 / CAS No. 71-36-3

WEL, STEL: 154 mg/m³; 50 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.

Personal protection equipment

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 EN ISO 374

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

Eye/face protection

Wear closely fitting protective glasses in case of splashes.

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830

FEYCOLOR®

Article No.: F244
Print date: 12.03.2020
Version: 2.11

FEYCOSIL 244 SI-Kunsthartzlack
Revision date: 27.11.2019
Issue date: 27.11.2019

999998 EN
Page 5 / 11

Body protection

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 section 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 determined

pH at 20 °C: not determined

Melting point/freezing point: not determined

Initial boiling point and boiling range: 78 °C
Source: ETHANOL (ETHYLALKOHOL)

Flash point: 24 °C

Evaporation rate: not determined

flammability

Burning time (s): not applicable

Upper/lower flammability or explosive limits:

Lower explosion limit: 1,2 Vol-%
Upper explosion limit: 15 Vol-%
Source: Ethanol

Vapour pressure at 20 °C: 2,7563 mbar

Vapour density: not determined

Relative density:

Density at 20 °C: 1,32 g/cm³

Solubility(ies):

Water solubility (g/L) at 20 °C: insoluble

Partition coefficient: n-octanol/water: see section 12

Auto-ignition temperature: 240 °C
Source: Solvent naphtha

Decomposition temperature: not determined

Viscosity at 20 °C: > 100 s 4 mm
Method: DIN 53211

Explosive properties: not applicable

Oxidising properties: not applicable

9.2. Other information

Solid content (%): 64,80 Wt %

solvent content:

Organic solvents: 35,20 Wt %
Water: 0,00 Wt %

Solvent separation test (%): < 3 Wt % (ADR/RID)

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830

FEYCOLOR®

Article No.: F244 FEYCOSIL 244 SI-Kunstharzlack
Print date: 12.03.2020 Revision date: 27.11.2019 999998 EN
Version: 2.11 Issue date: 27.11.2019 Page 6 / 11

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]

11.1. Information on toxicological effects

No data on preparation itself available.

Acute toxicity, calculated:

ATEmix calculated, oral: > 5000 mg/kg

ATEmix calculated, dermal: > 5000 mg/kg

ATEmix calculated, inhalative (vapours): > 20 mg/l

Acute toxicity

ethylbenzene

oral, LD50, Rat: 3500 mg/kg

dermal, LD50, Rabbit: 15500 mg/kg

inhalative (vapours), LC50, Rat: 17,2 mg/l (4 h)

n-butyl acetate

oral, LD50, Rat: 14000 mg/kg

inhalative (vapours), LC50, Rat: > 21 mg/l (4 h)

Solvent naphtha (petroleum), light arom.

oral, LD50, Rat: 3492 mg/kg

dermal, LD50, Rabbit: > 3160 mg/kg

Xylene

oral, LD50, Rat: 8640 mg/kg

dermal, LD50, Rabbit: > 4200 mg/kg

Harmful in contact with skin.

inhalative (vapours), LC50, Rat: 27,6 mg/l (4 h)

Harmful if inhaled.

Solvent naphtha

oral, LD50, Rat: 15000 mg/kg

dermal, LD50, Rabbit: > 5000 mg/kg

inhalative (vapours), LC50, Rat: > 5000 mg/l (4 h)

Skin corrosion/irritation; Serious eye damage/eye irritation

Causes skin irritation.

Causes serious eye irritation.

Xylene

Skin (4 h)

Causes skin irritation.

eyes

Causes serious eye irritation.

Respiratory or skin sensitisation

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

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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

STOT-single exposure; STOT-repeated exposure

May cause respiratory irritation.

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830

FEYCOLOR®

Article No.: F244 FEYCOSIL 244 SI-Kunstharzlack
Print date: 12.03.2020 Revision date: 27.11.2019
Version: 2.11 Issue date: 27.11.2019

999998 EN
Page 7 / 11

May cause damage to organs through prolonged or repeated exposure.

n-butyl acetate

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

Solvent naphtha (petroleum), light arom.

Specific target organ toxicity (single exposure), Irritation
May cause respiratory irritation.

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

Xylene

Specific target organ toxicity (single exposure), Irritation
May cause respiratory irritation.

Specific target organ toxicity (repeated exposure)

Solvent naphtha

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

Aspiration hazard

Solvent naphtha (petroleum), light arom.

Aspiration hazard
May be harmful if swallowed.

Xylene

Aspiration hazard
May be fatal if swallowed and enters airways.

Solvent naphtha

Aspiration hazard
May be fatal if swallowed and enters airways.

Practical experience/human evidence

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. CAS No.	Designation	Classification according to Regulation (EC) No 1272/2008 [CLP]
205-250-6 136-52-7	Cobalt bis(2-ethylhexanoate)	Repr. 1B

SECTION 12: Ecological information

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

Do not allow to enter into surface water or drains.

12.1. Toxicity

ethylbenzene

Fish toxicity, LC50, Carassius auratus (goldfish): 94,44 mg/l (96 h)

Daphnia toxicity, EC50 1,8 - 2,9 mg/l (48 h)

Algae toxicity, ErC50, Selenastrum capricornutum: 4,6 mg/l (72 h)

Solvent naphtha (petroleum), light arom.

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 9,2 mg/l (96 h)

Daphnia toxicity, EC50, Daphnia magna: 3,2 mg/l (48 h)

Algae toxicity, ErC50, Algae: 2,6 mg/l

Xylene

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 2,6 mg/l (96 h)

Daphnia toxicity, EC50, Daphnia magna (Big water flea): 1 mg/l (48 h)

Solvent naphtha

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830

FEYCOLOR®

Article No.: F244 FEYCOSIL 244 SI-Kunsthazrlack
Print date: 12.03.2020 Revision date: 27.11.2019 999998 EN
Version: 2.11 Issue date: 27.11.2019 Page 8 / 11

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 3,6 mg/l (96 h)
Daphnia toxicity, EC50, Daphnia magna: 22 mg/l (48 h)

Long-term Ecotoxicity

Solvent naphtha (petroleum), light arom.

Fish toxicity, LC50 (96 h)

Toxic to aquatic life with long lasting effects.

Fish toxicity, NOEC, Oncorhynchus mykiss (Rainbow trout): 1,23 mg/l (28 d)

Daphnia toxicity, NOEC, Daphnia magna: 2,14 mg/l (21 d)

Solvent naphtha

Fish toxicity, NOEC, Oncorhynchus mykiss (Rainbow trout): 0,0132 mg/l (28 d)

Daphnia toxicity, NOEC, Daphnia magna (21 d)

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

Bioconcentration factor (BCF)

Xylene

Bioconcentration factor (BCF), Oncorhynchus mykiss (Rainbow trout): 25,9

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

*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

Appropriate disposal / Package Recommendation

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):

Paint

Sea transport (IMDG):

PAINT

Air transport (ICAO-TI / IATA-DGR):

Paint

14.3. Transport hazard class(es)

Land transport (ADR/RID):

"No good according class 3"

containers > 450 l = class 3

Sea transport (IMDG)

3

for packages < 30 litres:

Transport in accordance with 2.3.2.5 of the IMDG Code

Air transport (ICAO-TI / IATA-DGR)

3

14.4. Packing group

III

14.5. Environmental hazards

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830

FEYCOLOR®

Article No.: F244 FEYCOSIL 244 SI-Kunsthazlack
Print date: 12.03.2020 Revision date: 27.11.2019 999998 EN
Version: 2.11 Issue date: 27.11.2019 Page 9 / 11

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 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

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): 465

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 mixture a chemical safety assessment has been carried out:

EC No. CAS No.	Designation	REACH No.
215-535-7 1330-20-7	Xylene	01-2119488216-32
204-658-1 123-86-4	n-butyl acetate	01-2119485493-29
202-849-4 100-41-4	ethylbenzene	01-2119489370-35
265-199-0 64742-95-6	Solvent naphtha (petroleum), light arom.	01-2119455851-35
919-857-5 200-751-6	Solvent naphtha butan-1-ol	01-2119463258-33 01-2119484630-38
71-36-3 202-496-6 96-29-7	2-butanone oxime	01-2119539477-28
205-250-6 136-52-7	Cobalt bis(2-ethylhexanoate)	01-2119524678-29

SECTION 16: Other information

Full text of classification in section 3:

Acute Tox. 4 / H312	Acute toxicity (dermal)	Harmful in contact with skin.
Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.
STOT RE 2 / H373	STOT-repeated exposure	May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830

FEYCOLOR®

Article No.: F244
Print date: 12.03.2020
Version: 2.11

FEYCOSIL 244 SI-Kunstharzlack
Revision date: 27.11.2019
Issue date: 27.11.2019

999998 EN
Page 10 / 11

Asp. Tox. 1 / H304 Aspiration hazard
Flam. Liq. 3 / H226 Flammable liquids
STOT SE 3 / H336 STOT-single exposure
Flam. Liq. 2 / H225 Flammable liquids
Aquatic Chronic 2 / H411 Hazardous to the aquatic environment
Acute Tox. 4 / H302 Acute toxicity (oral)
Eye Dam. 1 / H318 Serious eye damage/eye irritation
Carc. 2 / H351 Carcinogenicity

Skin Sens. 1 / H317 Respiratory or skin sensitisation
Skin Sens. 1A / H317 Respiratory or skin sensitisation
Repr. 1B / H360 Reproductive toxicity
Aquatic Acute 1 / H400 Hazardous to the aquatic environment
Aquatic Chronic 3 / H412 Hazardous to the aquatic environment

is conclusively proven that no other routes of exposure cause the hazard).
May be fatal if swallowed and enters airways.
Flammable liquid and vapour.
May cause drowsiness or dizziness.
Highly flammable liquid and vapour.
Toxic to aquatic life with long lasting effects.
Harmful if swallowed.
Causes serious eye damage.
Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
May cause an allergic skin reaction.
May cause an allergic skin reaction.
May damage fertility.
Very toxic to aquatic organisms.
Harmful to aquatic life with long lasting effects.

Classification procedure

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Flam. Liq. 3 Flammable liquids On basis of test data.
Skin Irrit. 2 Skin corrosion/irritation Calculation method.
Eye Irrit. 2 Serious eye damage/eye irritation Calculation method.
STOT SE 3 STOT-single exposure Calculation method.
STOT RE 2 STOT-repeated exposure Calculation method.

Abbreviations and acronyms

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL Occupational Exposure Limit Value
BLV Biological Limit Value
CAS Chemical Abstracts Service
CLP Classification, Labelling and Packaging
CMR Carcinogenic, Mutagenic and Reprotoxic
DIN German Institute for Standardization / German industrial standard
DNEL Derived No-Effect Level
EAKV European Waste Catalogue Directive
EC Effective Concentration
EC European Community
EN European Standard
IATA-DGR International Air Transport Association – Dangerous Goods Regulations
IBC Code International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
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
ISO International Organization for Standardization
LC Lethal Concentration
LD Lethal Dose
MARPOL Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD Organisation for Economic Cooperation and Development
PBT persistent, bioaccumulative, toxic
PNEC Predicted No Effect Concentration
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals
RID Regulations concerning the International Carriage of Dangerous Goods by Rail
UN United Nations
VOC Volatile Organic Compounds
vPvB very persistent and very bioaccumulative

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

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830

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Page 11 / 11

regarded as guaranteed attributes of the product.