

according to 2001/58 EC

3326212

Reviewed on: 30/06/2021

Printing date: 01/07/2021

01 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**

- *Trade name:*
FEYCO PERL 5377
- Article number / Safety Data Sheet:
537700

- **Details of the supplier of the safety data sheet**

- * *Manufacturer/Supplier:*
Teknos AG
Industriestrasse 7
LI-9487 Gamprin-Bendern
T +423 375 94 00
F +423 375 94 99
- * *Further information obtainable from:*
Product safety department. e-mail address: li-sdb@teknos.com
- * *Emergency telephone number:*
Swiss Toxicological Information Centre, CH-8032 Zürich Emergency telephone: +41 (0)44 251 51 51 (International)

02 Hazards identification

- *Classification of the substance or mixture*



GHS02

Flam. Liq. 3 - H226 Flammable liquid and vapour.



GHS07

Acute Tox. 4 - H332 Harmful if inhaled.
Skin Irrit. 2 - H315 Causes skin irritation.
STOT SE 3 - H336 May cause drowsiness or dizziness.

- *Label elements*
- GHS label elements
- Hazard pictograms



GHS02



GHS07

- Signal word
Warning

- Hazard-determining components of labelling:
titanium dioxide / xylene / ethylbenzene / 2-butoxyethyl acetate
- Hazard statements
H226 Flammable liquid and vapour.
H332 Harmful if inhaled.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
- Precautionary statements
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P302+P352 IF ON SKIN: Wash with plenty of water.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.

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03 Composition/information on ingredients

- **Chemical characterization: Mixtures**

- **Description:**

Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS Number		%
123-86-4	n-butyl acetate EC number: 204-658-1 Record number 01-2119485493-29 ⚠ Flam. Liq. 3 - H226; ⚠ STOT SE 3 - H336	25,00- 40,00
1330-20-7	xylene EC number: 215-535-7 Record number 01-2119488216-32 ⚠ Flam. Liq. 3 - H226; ⚠ Acute Tox. 4 - H312, Acute Tox. 4 - H332, Skin Irrit. 2 - H315	15,00- 25,00
100-41-4	ethylbenzene EC number: 202-849-4 Record number 01-2119489370-35 ⚠ Flam. Liq. 2 - H225; ⚠ STOT RE 2 - H373, Asp. Tox. 1 - H304; ⚠ Acute Tox. 4 - H332	1,00- 5,00
80-62-6	methyl methacrylate EC number: 201-297-1 Record number 01-2119452498-28 ⚠ Flam. Liq. 2 - H225; ⚠ Skin Irrit. 2 - H315, Skin Sens. 1 - H317, STOT SE 3 - H335	0,00- 0,50
112-07-2	2-butoxyethyl acetate EC number: 203-933-3 Record number 01-2119475112-47 ⚠ Acute Tox. 4 - H312, Acute Tox. 4 - H332; H227	1,00- 5,00
13463-67-7	titanium dioxide EC number: 236-675-5 Record number 01-2119489379-17 Acute Tox. 5 - H333	15,00- 25,00

04 First aid measures

- **General information:**

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

- **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

- **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

- **After eye contact:**

Rinse opened eye for several minutes under running water.

- **After swallowing:**

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Do not induce vomiting; call for medical help immediately.

05 Firefighting measures

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:**
Water with full jet
- **Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **Protective equipment:**
Mouth respiratory protective device.
Do not inhale explosion gases or combustion gases.
- **Additional information**
Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

06 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
- **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

07 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Take note of emission threshold.
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store only in the original receptacle.
- **Information about storage in one common storage facility:**
Not required.
- **Further information about storage conditions:**
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
- **Specific end use(s)**
No further relevant information available.

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PRODUCT : FEYCO PERL 5377*(continued of page 3)***08 Exposure controls/personal protection**

- **Ingredients with limit values that require monitoring at the workplace:**

123-86-4	n-butyl acetate		
PEL (TW)			
	Long-term value	712	mg/m3
		150	ppm
OEL (RC)			
	Short-term value	300	mg/m3
	Long-term value	200	mg/m3
1330-20-7	xylene		
PEL (TW)			
	Long-term value	434	mg/m3
		100	ppm
OEL (RC)			
	Short-term value	100	mg/m3
	Long-term value	50	mg/m3
100-41-4	ethylbenzene		
PEL (TW)			
	Long-term value	434	mg/m3
		100	ppm
OEL (RC)			
	Short-term value	150	mg/m3
	Long-term value	100	mg/m3
80-62-6	methyl methacrylate		
PEL (TW)			
	Long-term value	410	mg/m3
		100	ppm
OEL (RC)			
	Long-term value	100	mg/m3

- **Additional information:**

The lists valid during the making were used as basis.

- **Personal protective equipment:**

- **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Do not eat or drink while working.

Be sure to clean skin thoroughly after work and before breaks.

- **Respiratory protection:** *In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Suitable respiratory protective device recommended.*

- **Protection of hands:** *The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Protective gloves Impervious gloves*

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

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

The determined penetration times according to EN 374 part III are not performed under practical conditions.

Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

- **Eye protection:** *Safety glasses Tightly sealed goggles*

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- *Body protection: Protective work clothing*

09 Physical and chemical properties

Appearance			
Appearance:			
Form:	Liquid		
Colour:	According to product specifica		
Odour:	Characteristic Characteristic		
Odour threshold:	Not determined.		
Change in condition			
Initial boiling point and boiling range:	124 °C		
Flash point:	27 °C		
Flammability (solid, gas):	Not applicable.		
Ignition temperature:	425 °C		
Decomposition temperature:	Not determined.		
Auto-ignition temperature:	Not determined.		
Explosive properties:	Not determined.		
Explosion limits:			
Lower:	1 Vol %		
Upper:	7 Vol %		
Vapour pressure:	at 20 °C	6,7000 mbar at	50 °C 55,0000
	mbar		
Density:	1,1100 g/cm3		
Solubility in / Miscibility with water:			
	Not determined.		
Viscosity:			
.	Not determined.		
.	at 20 °C		
Other information			
No further relevant information available.			

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Incompatible materials:**
No further relevant information available.
- **Hazardous decomposition products:**
No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity**
- **LD/LC50 values relevant for classification:**
123-86-4 n-butyl acetate

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Oral, LD50: 13100 mg/kg (rat) Dermal, LD50: >5000 mg/kg (Rabbit) Inhalative, LC50/4h: >21 mg/l (rat) Oral, LD50: 4300 mg/kg (rat) Dermal, LD50: 2000 mg/kg (Rabbit) Oral, LD50: 3500 mg/kg (rat) Dermal, LD50: 17800 mg/kg (Rabbit) Oral, LD50: 7872 mg/kg (rat) Oral, LD50: 5050 mg/kg (rat) Oral, LD50: 10000 mg/kg (rat) Oral, LD50: 10000 mg/kg (rat) Oral, LD50: 2400 mg/kg (rat) Dermal, LD50: 1580 mg/kg (Rabbit) Oral, LD50: >6800 mg/kg (rat) Dermal, LD50: >3400 mg/kg (Rabbit) Inhalative, LC50/4h: >10,2 mg/l (rat) Oral, LD50: 5660 mg/kg (rat) Dermal, LD50: 13000 mg/kg (Rabbit) Inhalative, LC50/4h: 6 mg/l (rat) Oral, LD50: >5000 mg/kg (rat) Oral, LD50: 2460 mg/kg (rat) Dermal, LD50: 3400 mg/kg (Rabbit) Oral, LD50: 8532 mg/kg (rat) Inhalative, LC50/4h: 35,7 mg/l (rat) Oral, LD50: >20000 mg/kg (rat) Dermal, LD50: >10000 mg/kg (Rabbit) Inhalative, LC50/4h: >6,82 mg/l (rat) Oral, LD50: >200 mg/kg (rat) Oral, LD50: 526 mg/kg (rat) Oral, LD50: 14500 mg/kg (rat) Oral, LD50: 5000 mg/kg (rat) Dermal, LD50: 12124 mg/kg (Rabbit) Inhalative, LC50/4h: 5320 mg/l (mouse) Oral, LD50: 800 mg/kg (rat) Dermal, LD50: 1834 mg/kg (Rabbit) Inhalative, LC50/4h: 2180 mg/l (rat)

1330-20-7	xylene
100-41-4	ethylbenzene
80-62-6	methyl methacrylate
868-77-9	2-hydroxyethyl methacrylate
1333-86-4	Carbon black
7631-86-9	silicon dioxide, chemically prepared
112-07-2	2-butoxyethyl acetate
64742-95-6	Solvent naphtha (petroleum), light arom.
107-98-2	1-methoxy-2-propanol
1309-37-1	diiron trioxide
78-83-1	butanol
108-65-6	2-methoxy-1-methylethyl acetate
13463-67-7	titanium dioxide
50-00-0	formaldehyde
7447-41-8	lithium chloride
67-68-5	dimethyl sulfoxide
108-88-3	toluene
140-88-5	ethyl acrylate

- *Primary irritant effect:*

- Skin corrosion/irritation
No irritant effect.

- Serious eye damage/irritation
No irritating effect.

- *Respiratory or skin sensitisation*
No sensitising effects known.

- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Harmful

12 Ecological information

- Aquatic toxicity:
No further relevant information available.
- **Persistence and degradability**
No further relevant information available.
- **Behaviour in environmental systems:**
- *Bioaccumulative potential*
No further relevant information available.
- **Additional ecological information:**
- *General notes:*
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.

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PRODUCT : FEYCO PERL 5377*(continued of page 6)***13 Disposal considerations**

- **Waste treatment methods**
- **European and swiss waste code**

08

WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS

08 01

wastes from MFSU and removal of paint and varnish

08 01 11

waste paint and varnish containing organic solvents or other hazardous substances

- **Uncleaned packaging:**

- **Recommendation:**

Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**

ADR UN1263

IMDG UN1263

IATA UN1263

- **UN proper shipping name**

ADR 1263 PAINT

IMDG PAINT

IATA PAINT

- **Transport hazard class(es)**

ADR

Class 3 Flammable liquids.

Label

3



IMDG

Class

3 Flammable liquids.

Label

3



IATA

Class

3 Flammable liquids.

Label

3



- **Packing group**

ADR III

IMDG III

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PRODUCT : FEYCO PERL 5377*(continued of page 7)***IATA** III• **Environmental hazards:**

Not applicable.

• **Special precautions for user**

Warning: Flammable liquids.

Danger code (Kemler): 30**EMS Number:** F-E,S-E• **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

• **Transport/Additional information:**

Not applicable.

Excepted quantities (EQ): E1**Limited quantities (LQ)** 5L**Transport category** 3**Tunnel restriction code** D/E**IMDG****Limited quantities (LQ)** 5L**Excepted quantities (EQ)** E1• **UN "Model Regulation":**

UN 1263 PAINT, 3, III

15 Regulatory information• **National regulations:**• **Classification according to VbF:**

-

• **Technical instructions (air):**• **Class Share in %**

III 26,45

II 18,26

I

• **Waterhazard class:**

Water hazard class 2 (Self-assessment): hazardous for water.

• **Regulatory control number**

100-41-4 ethylbenzene : 116/01

50-00-0 formaldehyde : 66/01

• **Toxicity classification**

100-41-4 ethylbenzene : 4

50-00-0 formaldehyde : 2, 3

• **Control concentration standard (w/w%)**

100-41-4 ethylbenzene : 70

50-00-0 formaldehyde : 15

• **Large-scale handling standard (kg)**

100-41-4 ethylbenzene : -

50-00-0 formaldehyde : 50

• **TCSI - Taiwan Chemical Substance Inventory**

100-41-4 ethylbenzene

104-19-8 N,N,4-trimethylpiperazine-1-ethylamine

107-98-2 1-methoxy-2-propanol

108-65-6 2-methoxy-1-methylethyl acetate

108-88-3 toluene

112-07-2 2-butoxyethyl acetate

123-86-4 n-butyl acetate

1309-37-1 diiron trioxide

1330-20-7 xylene

1333-86-4 Carbon black

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13463-67-7	titanium dioxide
140-88-5	ethyl acrylate
14808-60-7	Quartz (SiO ₂)
20344-49-4	iron hydroxide oxide
3030-47-5	bis(2-dimethylaminoethyl) (methyl) amine
3648-18-8	Di-n-octylzinndilaurat
50-00-0	formaldehyde
541-02-6	decamethylcyclopentasiloxane
556-67-2	octamethylcyclotetrasiloxane
67-68-5	dimethyl sulfoxide
68909-20-6	Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products withsilica
7447-41-8	lithium chloride
7631-86-9	silicon dioxide, chemically prepared
7664-38-2	phosphoric acid ...%
7727-43-7	barium sulphate, natural
78-83-1	butanol
8002-74-2	Paraffin waxes and Hydrocarbon waxes
80-62-6	methyl methacrylate
868-77-9	2-hydroxyethyl methacrylate
9002-88-4	polyethylene wax
9003-07-0	*****
9004-36-8	CELLULOSE ACETATE BUTYRATE
9017-09-8	polyurethane

16 Other information

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

- Relevant phrases

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H227	Combustible liquid.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H333	May be harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.

- **Department issuing MSDS:**

Environment protection department.

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

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

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

VbF: Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

- * Data compared to the previous version altered.