

according to 2001/58 EC

2631722

Reviewed on: 21/10/2021

Printing date: 21/10/2021

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

- **Product identifier**

- *Trade name:*  
FEYCRYL SP 5398
- Article number / Safety Data Sheet:  
539800

- **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 Sens. 1A - H317 May cause an allergic skin reaction.

Aquatic Chronic 3 - H412 Harmful to aquatic life with long lasting effects.

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



GHS02 GHS07

- Signal word  
Warning

- Hazard-determining components of labelling:  
titanium dioxide / xylene / Solvent naphtha (petroleum), light arom. / ethylbenzene
- Hazard statements  
H226 Flammable liquid and vapour.  
H332 Harmful if inhaled.  
H317 May cause an allergic skin reaction.  
H412 Harmful to aquatic life with long lasting effects.
- 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+P235 Store in a well-ventilated place. Keep cool.  
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	<b>n-butyl acetate</b> EC number: 204-658-1 Record number 01-2119485493-29 Flam. Liq. 3 - H226; STOT SE 3 - H336	10,00- 25,00
64742-95-6	<b>Solvent naphtha (petroleum), light arom.</b> EC number: 265-199-0 Record number 01-2119455851-35 Asp. Tox. 1 - H304; Acute Tox. 4 - H332, STOT SE 3 - H335; Aquatic Chronic 2 - H411	1,00- 5,00
100-41-4	<b>ethylbenzene</b> 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
1330-20-7	<b>xylene</b> 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	5,00- 10,00
108-31-6	<b>maleic anhydride</b> EC number: 203-571-6 Record number 01-2119472428-31 Skin Corr. 1B - H314, Eye Dam. 1 - H318; Resp. Sens. 1 - H334, STOT RE 1 - H372; Acute Tox. 4 - H302, Skin Sens. 1 - H317	0,00-0,0015
108-65-6	<b>2-methoxy-1-methylethyl acetate</b> EC number: 203-603-9 Record number 01-2119475791-29 Flam. Liq. 3 - H226	0,0015- 0,50
13463-67-7	<b>titanium dioxide</b> EC number: 236-675-5 Record number 01-2119489379-17 Carc. 2 - H351	25,00- 40,00
*	<b>ADDITIVE Xi;R36/43</b>	0,0015- 0,50
*	Eye Irrit. 2 - H319, Skin Sens. 1 - H317	
*		
*		
*	<b>108-88-3 toluene</b>	0,0015- 0,50

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- \* EC number: 203-625-9
- \* Record number 01-2119471310-51
- \*  Flam. Liq. 2 - H225;  Repr. 2 -
- \* H361, STOT RE 2 - H373, Asp. Tox. 1 - H304;
- \*  Skin Irrit. 2 - H315, STOT SE 3 - H336

- **Additional information:**  
For the wording of the listed risk phrases refer to section 16.

**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.  
Immediately rinse with water.
- **After eye contact:**  
Rinse opened eye for several minutes under running water.
- **After swallowing:**  
Do not induce vomiting; call for medical help immediately.

**05 Firefighting measures**

- **Suitable extinguishing agents:**  
CO<sub>2</sub>, 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.  
Prevent seepage into sewage system, workpits and cellars.  
Inform respective authorities in case of seepage into water course or sewage system.  
In case of seepage into the ground inform responsible authorities.  
In case of gas release or seepage into the ground inform responsible authorities.  
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.

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**07 Handling and storage**

- **Handling:**
  - *Precautions for safe handling*  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.  
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.  
Prevent impact and friction.
- **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.

**08 Exposure controls/personal protection**

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

100-41-4 ethylbenzene

MMSD

Short-term value	884	mg/m3
	200	ppm
Long-term value	442	mg/m3
	100	ppm
Deri		

1330-20-7 xylene

MMSD

Short-term value	442	mg/m3
	100	ppm
Long-term value	221	mg/m3
	50	ppm
Deri		

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

MMSD

Short-term value	550	mg/m3
	100	ppm
Long-term value	275	mg/m3
	50	ppm
Deri		

108-88-3 toluene

MMSD

Short-term value	384	mg/m3
	100	ppm
Long-term value	192	mg/m3
	50	ppm
Deri		

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- **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.  
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 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
- **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	10,7000 mbar at	50 °C	55,0000
	mbar			
Density:	1,3500 g/cm3			
Solubility in / Miscibility with water:				
Not determined.				
Viscosity:				
.	600 - 700 mPa.s			
.	at 20 °C			
Other information				
No further relevant information available.				

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**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**  
Oral, LD50: 13100 mg/kg (rat) Dermal, LD50: >5000 mg/kg (Rabbit) Inhalative, LC50/4h: >21 mg/l (rat) Oral, LD50: >6800 mg/kg (rat) Dermal, LD50: >3400 mg/kg (Rabbit) Inhalative, LC50/4h: >10,2 mg/l (rat) Oral, LD50: 3500 mg/kg (rat) Dermal, LD50: 17800 mg/kg (Rabbit) Oral, LD50: 4300 mg/kg (rat) Dermal, LD50: 2000 mg/kg (Rabbit) Oral, LD50: 5750 mg/kg (rat) Dermal, LD50: 16000 mg/kg (Rabbit) Oral, LD50: 400 mg/kg (rat) Dermal, LD50: 2620 mg/kg (Rabbit) Oral, LD50: 8532 mg/kg (rat) Inhalative, LC50/4h: 35,7 mg/l (rat) Oral, LD50: 5620 mg/kg (Rabbit) Inhalative, LC50/4h: 1600 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: 1300 mg/kg (rat) Inhalative, LC50/4h: 5 mg/l (mouse) Oral, LD50: 5000 mg/kg (rat) Dermal, LD50: 12124 mg/kg (Rabbit) Inhalative, LC50/4h: 5320 mg/l (mouse)
  - 64742-95-6 Solvent naphtha (petroleum), light arom.**
  - 100-41-4 ethylbenzene**
  - 1330-20-7 xylene**
  - 108-83-8 2,6-dimethylheptan-4-one**
  - 108-31-6 maleic anhydride**
  - 108-65-6 2-methoxy-1-methylethyl acetate**
  - 141-78-6 ethyl acetate**
  - 13463-67-7 titanium dioxide**
  - 100-37-8 2-diethylaminoethanol**
  - 108-88-3 toluene**
- **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:**  
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.
- **Ecotoxicological effects:**
- **Remark:**  
Harmful to fish
- **Additional ecological information:**
- **General notes:**  
Harmful to aquatic organisms  
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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**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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**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:**• **Information about limitation of use:**

The above-mentioned manufacturer's information on the handling of isocyanates is contained in the safety data sheet of the product. The European Committee of Paint, Printing Ink and Artists 'Colours Manufacturers' Associations (CEPE) provides the following information on coatings isocyanates: Ready-to-use paints containing isocyanates may have an irritant effect on mucous membranes - especially on breathing organs - and cause hypersensitivity reactions. Inhalation of vapour or spray mist may cause sensitisation. When handling paints containing isocyanates, all precautions required for solvent-containing paints must be followed. Vapour and spray mist in particular should not be inhaled. Persons who are allergic, asthmatic, or prone to respiratory ailments should not work with isocyanate-containing paints.

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

III 16,73

II 13,60

I

• **Waterhazard class:**

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

**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.  
 H302 Harmful if swallowed.  
 H304 May be fatal if swallowed and enters airways.  
 H312 Harmful in contact with skin.  
 H314 Causes severe skin burns and eye damage.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H318 Causes serious eye damage.

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	H319	Causes serious eye irritation.
	H332	Harmful if inhaled.
	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	H335	May cause respiratory irritation.
	H336	May cause drowsiness or dizziness.
*	H351	Suspected of causing cancer.
*	H361	Suspected of damaging fertility or the unborn child.
*	H372	Causes damage to organs through prolonged or repeated exposure.
*	H373	May cause damage to organs through prolonged or repeated exposure.
*	H411	Toxic to aquatic life with long lasting effects.

- **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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

- \* Data compared to the previous version altered.