**\footnote{Total Teknos

according to 1907/2006/EC, Article 31

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

- 1.1 Product identifier
- Trade name: FEYCRYL SG 5398
- Article number / Safety Data Sheet: 539500
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- Application of the substance / the preparation Coating material
- · 1.3 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
- 1.4 Emergency telephone number:
 Swiss Toxicological Information Centre, CH-8032 Zürich Emergency telephone: +41 (0)44 251 51 51 (International)

SECTION 02: Hazards identification

- 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



GHS02

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



GHS07

Acute Tox. 4 - H332 Harmful if inhaled.

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

- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008
- Hazard pictograms





GHS02 GHS07 Signal word Warning

- Hazard-determining components of labelling:
 - xylene / Solvent naphtha (petroleum), light arom. / ethylbenzene
- Hazard statements

H226 Flammable liquid and vapour.

H332 Harmful if inhaled.

H412 Harmful to aquatic life with long lasting effects.

EUH208 Contains Methyl1,2,2,6,6-pentamethyl-4-piperidyl. May produce an allergic reaction.

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed.

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P240 Ground and bond container and receiving equipment.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or

P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.

- · 2.3 Other hazards
- Results of PBT and vPvB assessment
- PBT:

Not applicable.

vPvB:

Not applicable.

SECTION 03: Composition/information on ingredients

- · 3.2 Chemical characterization: Mixtures
- · Description:

CAS Number 123-86-4		%
123-86-4		
	n-butyl acetate	10,00- 25,00
	EC number: 204-658-1	
	Record number 01-2119485493-29	
	🏵 Flam. Liq. 3 - H226; 🔱 STOT SE 3 -	
	H336; EUH066	
64742-95-6	Solvent naphtha (petroleum), light arom.	1,00- 5,00
	EC number: 265-199-0	
	Record number 01-2119455851-35	
	♦ Asp. Tox. 1 - H304; ♦ Flam. Liq. 3	
	- H226; 🌣 Acute Tox. 4 - H332, STOT SE 3	
	- H335; 🤄 Aquatic Chronic 2 - H411	
100-41-4	ethylbenzene	1,00- 5,00
	EC number: 202-849-4	
	Record number 01-2119489370-35	
	♦ Flam. Liq. 2 - H225; ♦ STOT RE 2 -	
	H373, Asp. Tox. 1 - H304; 산 Acute Tox. 4	
	- H332	
1330-20-7	xylene	5,00- 10,00
	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	
85711-46-2	Fatty acids, C14-18 and C16-18-unsatd.,	0,0015- 0,50
	maleated	
	Record number 01-2119976378-19	
	Skin Irrit. 2 - H315, Skin Sens. 1 -	
	H317	
108-31-6	maleic anhydride	0,00-0,0015



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PRO	ODUCT :	FEYCRYL SG 5398	
			(continued of page 2)
		Record number 01-2119472428-31	
		Skin Corr. 1B - H314, Eye Dam. 1 -	
		H318; <page-header> Resp. Sens. 1 - H334, STOT RE 1</page-header>	
		- H372; 🕚 Acute Tox. 4 - H302, Skin	
*		Sens. 1A - H317;	
*		Skin Sens. 1A; H317: C >= 0,001 %	
*	141-78-6	ethyl acetate	0,0015- 0,50
*		EC number: 205-500-4	
*		Record number 01-2119475103-46	
*		🍑 Flam. Liq. 2 - H225; 🕚 Eye Irrit.	
*		2 - H319, STOT SE 3 - H336; EUH066	
*	13463-67-7	titanium dioxide	25,00- 40,00
*		EC number: 236-675-5	
*		Record number 01-2119489379-17	
*		❖ Carc. 2 - H351	
*	546-93-0	Magnesium Carbonate	0,0015- 0,50
*		substance with a Community workplace	
*		exposure limit.	
*		ADDITIVE Xi;R36/43	0,50- 1,00
*		Eye Irrit. 2 - H319, Skin Sens. 1 -	
*		H317	
*	108-88-3	toluene	0,0015- 0,50
*		EC number: 203-625-9	
*		Record number 01-2119471310-51	
*		\delta Flam. Liq. 2 - H225; \delta Repr. 2 -	
*		H361d, STOT RE 2 - H373, Asp. Tox. 1 - H304;	
*		♦ Skin Irrit. 2 - H315, STOT SE 3 - H336	
	 Additional is For the work 	information: rding of the listed risk phrases refer to section 16.	

SECTION 04: First aid measures

- · 4.1 Description of 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:
- Do not induce vomiting; call for medical help immediately.
- Information for doctor:
- 4.2 Most important symptoms and effects, both acute and delayed
- No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

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TEKNOS

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SECTION 05: Firefighting measures

• 5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters

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.

SECTION 06: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

6.2 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.

6.3 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.

6.4 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.

SECTION 07: Handling and storage

· Handling:

7.1 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.

- 7.2 Conditions for safe storage, including any incompatibilities
- 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.

7.3 Specific end use(s)

No further relevant information available.



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CTION	08: Exposure contro	ols/personal protection	(continued of page 4
OHON	LAPOSUIC COITE	ns/personal protection	
• 8.1 Con	trol parameters		
· Ingredi	ents with limit values that red	quire monitoring at the workplace:	
123-86-4	n-butyl acetate		
WEL			
	Short-term value	966	mg/m3
		200	ppm
	Long-term value	724	mg/m3
	_	150	ppm
100-41-4	ethylbenzene		
WEL	·		
	Short-term value	552	mg/m3
		125	ppm
	Long-term value	441	mg/m3
		100	ppm
	Sk		
1330-20-	7 xylene		
WEL			
	Short-term value	441	mg/m3
		100	ppm
	Long-term value	220	mg/m3
		50	ppm
	Sk; BMGV		
141-78-6	ethyl acetate		
WEL			
	Short-term value	1468	mg/m3
		400	ppm
	Long-term value	734	mg/m3
		200	ppm
546-93-0	Magnesium Carbo	onate	
WEL			
	Long-term value	10* 4**	mg/m3
	*inhalable dust **respirable	dust	
108-88-3	toluene		
WEL			
	Short-term value	384	mg/m3
		100	ppm
	Long-term value	191	mg/m3
		50	ppm
- المحسموا	Sk		
• Ingredie 	ents with biological limit values: 7 xylene		
	Aylelle		
BMGV			



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Medium: urine

Sampling time: post shift Parameter: methyl hippuric acid

Additional information:

The lists valid during the making were used as basis.

- 8.2 Exposure controls
- · 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

SECTION 09: Physical and chemical properties

9.1 Information on basic physical and ch	nemical 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				
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						(continued of page 6)
Density:		1,36	600 g/cm3			
Solubility in /	Miscibility with					
water:		Not	determined.			
Viscosity:						
•		Not determined.				
		at	20 °C	600 -	700 mPa.s	
9.2 Other info	rmation	No further relevant information available.				

SECTION 10: Stability and reactivity

- 10.1 Reactivity
- No further relevant information available.
- 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions
- No dangerous reactions known.
- · 10.4 Conditions to avoid
- No further relevant information available.
- 10.5 Incompatible materials:
 - No further relevant information available.
- 10.6 Hazardous decomposition products:

 No departure decomposition products know

No dangerous decomposition products known.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · 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)

64742-95-6 Solvent naphtha (petroleum), light arom.

Oral, LD50: >6800 mg/kg (rat)
Dermal, LD50: >3400 mg/kg (Rabbit)
Inhalative, LC50/4h: >10,2 mg/l (rat)

100-41-4 ethylbenzene

Oral, LD50: 3500 mg/kg (rat) Dermal, LD50: 17800 mg/kg (Rabbit)

1330-20-7 xylene

Oral, LD50: 4300 mg/kg (rat) Dermal, LD50: 2000 mg/kg (Rabbit)

108-83-8 2,6-dimethylheptan-4-one

Oral, LD50: 5750 mg/kg (rat) Dermal, LD50: 16000 mg/kg (Rabbit)

08-31-6 maleic anhydride Oral, LD50: 400 mg/kg (rat)

Dermal, LD50: 2620 mg/kg (Rabbit)

I41-78-6 ethyl acetate
Oral, LD50: 5620 mg/kg (Rabbit)
Inhalative, LC50/4h: 1600 mg/l (rat)

13463-67-7 titanium dioxide

Oral, LD50: >20000 mg/kg (rat) Dermal, LD50: >10000 mg/kg (Rabbit) Inhalative, LC50/4h: >6,82 mg/l (rat)

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100-37-8 2-diethylaminoethanol

Oral, LD50: 1300 mg/kg (rat) Inhalative, LC50/4h: 5 mg/l (mouse)

108-88-3 toluene

Oral, LD50: 5000 mg/kg (rat) Dermal, LD50: 12124 mg/kg (Rabbit) Inhalative, LC50/4h: 5320 mg/l (mouse)

- · 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
- · 11.2 Information on other hazards
- · Endocrine disrupting properties
- 556-67-2 octamethylcyclotetrasiloxane : II; III

SECTION 12: Ecological information

- 12.1 Toxicity
- · Aquatic toxicity:

No further relevant information available.

· 12.2 Persistence and degradability

No further relevant information available.

- Behaviour in environmental systems:
 12.2 Ricacoumulative potential
- 12.3 Bioaccumulative potential
- No further relevant information available.
- 12.4 Mobility in soil
- No further relevant information available.
- · Ecotoxical 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.

 12.5 Results of PBT and vPvB assessment
- PBT:

Not applicable.

- vPvB:
 - Not applicable.
- 12.6 Other adverse effects

No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- European and swiss waste code

8 0

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 $\ensuremath{\mathsf{S}}$

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- · Uncleaned packaging:
- Recommendation:

Disposal must be made according to official regulations.

SECTION 14: Transport information

• 14.1 UN-Number

 ADR
 UN1263

 IMDG
 UN1263

 IATA
 UN1263

• 14.2 UN proper shipping name

ADR 1263 PAINT

IMDG PAINT

IATA PAINT

• 14.3 Transport hazard class(es)

ADR

Class 3 Flammable liquids.

Label



IMDG

Class 3 Flammable liquids.

Label



IATA

Class 3 Flammable liquids.

Label



• 14.4 Packing group

ADR III
IMDG III
IATA III

- 14.5 Environmental hazards:
 - Not applicable.
- 14.6 Special precautions for user
 Warning: Flammable liquids.
 Danger code (Kemler): 30
 EMS Number: F-E,S-E
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
 Not applicable.

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Transport/Additional information:

Not applicable.

Excepted quantities (EQ): Limited quantities (LQ) 5L **Transport category** 3

IMDG

Limited quantities (LQ) 5L **Excepted quantities (EQ)** E1

UN "Model Regulation": UN 1263 PAINT, 3, III

Tunnel restriction code

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II
- None of the ingredients is listed.
- REGULATION (EU) 2019/1148
- Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
- None of the ingredients is listed.
 - Annex II REPORTABLE EXPLOSIVES PRECURSORS
 - None of the ingredients is listed.
 - REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 40
 - · National regulations:
 - Technical instructions (air):
 - Class Share in %

11,89 III ΙI 14,71

- · Waterhazard class:
 - Water hazard class 2 (Self-assessment): hazardous for water.
- 15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

SECTION 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

EUH066 Repeated exposure may cause skin dryness or cracking 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. H319 Causes serious eye irritation.

H332 Harmful if inhaled.

May cause allergy or asthma symptoms or breathing difficulties if inhaled. H334

H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.

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MATERIAL SAFETY DATA SHEET



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* H351 Suspected of causing cancer.

* H361d Suspected of damaging 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

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative * Data compared to the previous version altered.