

4253500

Reviewed on: 09/02/2022

Printing date: 09/02/2022

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

• 1.1 Product identifier

- *Trade name:*
TEKNOCOAT 1682-22 CLEAR E1
- Article number / Safety Data Sheet:
1T735010
- *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. 2 - H225 Highly flammable liquid and vapour.



GHS07

Eye Irrit. 2 - H319 Causes serious eye irritation.
STOT SE 3 - H336 May cause drowsiness or dizziness.

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



GHS02 GHS07

- Signal word
Danger

- Hazard-determining components of labelling:
n-butyl acetate
- Hazard statements
H225 Highly flammable liquid and vapour.
H319 Causes serious eye 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.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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according to 1907/2006/EC, Article 31

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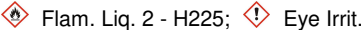
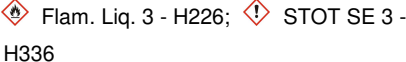
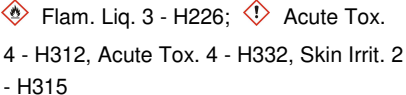
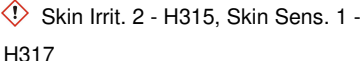
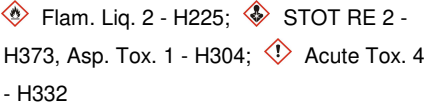
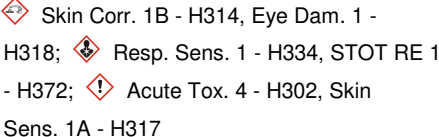
(continued of page 1)

- 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:*

Mixture of substances listed below with nonhazardous additions.

• *Dangerous components:*

CAS Number		%
141-78-6	ethyl acetate EC number: 205-500-4 Record number 01-2119475103-46  2 - H319-EUH066, STOT SE 3 - H336	5,00- 10,00
123-86-4	n-butyl acetate EC number: 204-658-1 Record number 01-2119485493-29 	40,00- 60,00
1330-20-7	xylene EC number: 215-535-7 Record number 01-2119488216-32 	0,0015- 0,50
85711-46-2	Fatty acids, C14-18 and C16-18-unsatd., maleated Record number 01-2119976378-19 	0,50- 1,00
100-41-4	ethylbenzene EC number: 202-849-4 Record number 01-2119489370-35 	0,0015- 0,50
108-31-6	maleic anhydride EC number: 203-571-6 Record number 01-2119472428-31 	0,0015- 0,50
64-17-5	ethanol EC number: 200-578-6	1,00- 5,00

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	Record number 01-2119457610-43 substance with a Community workplace exposure limit.	
	 Flam. Liq. 2 - H225	
68002-19-7	Urea RPW formaldehyde, butylated	5,00- 10,00
	Aquatic Chronic 4 - H413	
108-65-6	2-methoxy-1-methylethyl acetate	1,00- 5,00
	EC number: 203-603-9	
	Record number 01-2119475791-29 substance with a Community workplace exposure limit.	
	 Flam. Liq. 3 - H226	
67-63-0	propan-2-ol	1,00- 5,00
	EC number: 200-661-7	
	Record number 01-2119457558-25	
	 Flam. Liq. 2 - H225;  Eye Irrit.	
	2 - H319, STOT SE 3 - H336	
<ul style="list-style-type: none"> • Additional information: For the wording of the listed risk phrases refer to section 16. 		

SECTION 04: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation:**
Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **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.

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.

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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**

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 in a cool location.

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.

SECTION 08: Exposure controls/personal protection

- **8.1 Control parameters**

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

141-78-6 ethyl acetate**HTP**

Short-term value

1470

mg/m3

400

ppm

Long-term value

730

mg/m3

200

ppm

123-86-4 n-butyl acetate**HTP**

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	Short-term value	725	mg/m3
		150	ppm
	Long-term value	240	mg/m3
		50	ppm
1330-20-7 xylene			
HTP			
	Short-term value	440	mg/m3
		100	ppm
	Long-term value	220	mg/m3
		50	ppm
iho			
100-41-4 ethylbenzene			
HTP			
	Short-term value	880	mg/m3
		200	ppm
	Long-term value	220	mg/m3
		50	ppm
iho			
64-17-5 ethanol			
HTP			
	Short-term value	2500	mg/m3
		1300	ppm
	Long-term value	1900	mg/m3
		1000	ppm
108-65-6 2-methoxy-1-methylethyl acetate			
HTP			
	Short-term value	550	mg/m3
		100	ppm
	Long-term value	270	mg/m3
		50	ppm
iho			
67-63-0 propan-2-ol			
HTP			
	Short-term value	620	mg/m3
		250	ppm
	Long-term value	500	mg/m3
		200	ppm

- Ingredients with biological limit values:

1330-20-7 xylene

BNV

5,0 µmol/l

virtsan

Työvuoron päätyttyä

metyylihippuurihappo

100-41-4 ethylbenzene

BNV

5,2 mmol/l

virtsan

Työvuoron päätyttyä työviikon tai altistumisjakson loputtua

mantelihappo

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- **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.
Keep away from foodstuffs, beverages and feed.
Avoid contact with the eyes.
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:** 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 Tightly sealed goggles
- **Body protection:** Protective work clothing

SECTION 09: Physical and chemical properties**9.1 Information on basic physical and chemical properties****Appearance****Appearance:**

Form:	Liquid
Colour:	According to product specifica
Odour:	Weak, characteristic Characteristic
Odour threshold:	Not determined.

Change in condition

Initial boiling point and boiling range:	Undetermined.
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Flash point:	12 °C
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Flammability (solid, gas):	Not applicable.
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Ignition temperature:	Undetermined.
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Decomposition temperature:	Not determined.
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Auto-ignition temperature:	Not determined.
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Explosive properties:	Not determined.
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Explosion limits:

Lower:	1 Vol %
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Upper:	19 Vol %
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Vapour pressure:	Not determined.
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Density:	1,0000 g/cm3
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Solubility in / Miscibility with

water:	Not determined.
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Viscosity:

•	Not determined.
•	at 23 °C

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PRODUCT : TEKNOCOAT 1682-22 CLEAR E1*(continued of page 6)***9.2 Other information**

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 dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**
- **LD/LC50 values relevant for classification:**

141-78-6 ethyl acetate

Oral, LD50: 5620 mg/kg (Rabbit) Inhalative, LC50/4h: 1600 mg/l (rat) 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: 5750 mg/kg (rat) Dermal, LD50: 16000 mg/kg (Rabbit) Oral, LD50: 3500 mg/kg (rat) Dermal, LD50: 17800 mg/kg (Rabbit) Oral, LD50: 400 mg/kg (rat) Dermal, LD50: 2620 mg/kg (Rabbit) Oral, LD50: 10000 mg/kg (rat) Oral, LD50: 7060 mg/kg (rat) Inhalative, LC50/4h: 20000 mg/l (rat) Oral, LD50: >200 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: 5045 mg/kg (rat) Dermal, LD50: 12800 mg/kg (Rabbit) Inhalative, LC50/4h: 30 mg/l (rat)

123-86-4 n-butyl acetate**1330-20-7 xylene****108-83-8 2,6-dimethylheptan-4-one****100-41-4 ethylbenzene****108-31-6 maleic anhydride****7631-86-9 silicon dioxide, chemically prepared****64-17-5 ethanol****50-00-0 formaldehyde****78-83-1 butanol****108-65-6 2-methoxy-1-methylethyl acetate****67-63-0 propan-2-ol**

- **Primary irritant effect:**
- Skin corrosion/irritation
No irritant effect.
- Serious eye damage/irritation
Irritating effect.
- **Respiratory or skin sensitisation**
No sensitising effects known.
- **Additional toxicological information:**
Irritant
- **11.2 Information on other hazards**
- **Endocrine disrupting properties**
None of the ingredients is listed.

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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:**
- **12.3 Bioaccumulative potential**
No further relevant information available.
- **12.4 Mobility in soil**
No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **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**
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.

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.

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Label**3****IMDG****Class**

3 Flammable liquids.

Label**3****IATA****Class**

3 Flammable liquids.

Label**3**• **14.4 Packing group****ADR** III**IMDG** II**IATA** II• **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.

• **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)** E2• **UN "Model Regulation":**

UN 1263 PAINT, 3, III

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

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- 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 %

III	52,70
II	0,54
I	

- *Waterhazard class:*

Water hazard class 1 (Self-assessment): slightly 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.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H336	May cause drowsiness or dizziness.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H413	May cause long lasting harmful effects to aquatic life.

- **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.