

according to 2001/58 EC

2100922

Reviewed on: 28/06/2021

Printing date: 30/06/2021

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

- **Product identifier**

- *Trade name:*  
ALPOCRYL KLARLACK 5454

- Article number / Safety Data Sheet:  
148500

- **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

Flammable Liquids - Category 2 - H225 Highly flammable liquid and vapour.



GHS07

Skin Irritation - Category 2 - H315 Causes skin irritation.  
Eye Irritation - Category 2A - H319 Causes serious eye irritation.  
Skin Sensitizer - Category 1 - H317 May cause an allergic skin reaction.  
Specific Target Organ Toxicity - Single Exposure - Category 3 - H336  
May cause drowsiness or dizziness.



GHS08

Reproductive Toxicity - Category 2 - H361 Suspected of damaging fertility or the unborn child.

H402 Harmful to aquatic life.  
Aquatic Chronic 3 - H412 Harmful to aquatic life with long lasting effects.

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



GHS02



GHS07



GHS08

- Signal word  
Danger

- Hazard-determining components of labelling:  
xylene / toluene / ethylbenzene / BENZOTRIAZOL DERIVATIVES Index no.

(continued on page 2)

according to 2001/58 EC

2100922

Reviewed on: 28/06/2021

Printing date: 30/06/2021

**PRODUCT : ALPOCRYL KLARLACK 5454**


(continued of page 1)

- 607-176-00-3
- Hazard statements
    - H225 Highly flammable liquid and vapour.
    - H315 Causes skin irritation.
    - H319 Causes serious eye irritation.
    - H317 May cause an allergic skin reaction.
    - H336 May cause drowsiness or dizziness.
    - H361 Suspected of damaging fertility or the unborn child.
    - H412 Harmful to aquatic life with long lasting effects.
  - Precautionary statements
    - P201 Obtain special instructions before use.
    - P202 Do not handle until all safety precautions have been read and understood.
    - P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
    - 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.

**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  Flammable Liquids - Category 3 - H226;  Specific Target Organ Toxicity - Single Exposure - Category 3 - H336	25,00- 40,00
1330-20-7	<b>xylene</b> EC number: 215-535-7 Record number 01-2119488216-32  Flammable Liquids - Category 3 - H226;  Acute Toxicity (Dermal) - Category 4 - H312, Acute Toxicity (Inhalation) - Category 4 - H332, Skin Irritation - Category 2 - H315	10,00- 25,00
100-41-4	<b>ethylbenzene</b> EC number: 202-849-4 Record number 01-2119489370-35  Flammable Liquids - Category 2 - H225;  Specific Target Organ Toxicity - Repeated Exposure - Category 2 - H373, Aspiration Hazard - Category 1 - H304;  Acute Toxicity (Inhalation) - Category 4 - H332	1,00- 5,00
80-62-6	<b>methyl methacrylate</b> EC number: 201-297-1 Record number 01-2119452498-28  Flammable Liquids - Category 2 - H225;  Skin Irritation - Category 2 - H315, Skin Sensitizer - Category 1 - H317,	0,0015- 0,50

(continued on page 3)













according to 2001/58 EC

2100922

Reviewed on: 28/06/2021

Printing date: 30/06/2021

**PRODUCT : ALPOCRYL KLARLACK 5454***(continued of page 2)*

<b>108-88-3</b>	Specific Target Organ Toxicity - Single Exposure - Category 3 - H335 <b>toluene</b> EC number: 203-625-9 Record number 01-2119471310-51  Flammable Liquids - Category 2 - H225;  Reproductive Toxicity - Category 2 - H361, Specific Target Organ Toxicity - Repeated Exposure - Category 2 - H373, Aspiration Hazard - Category 1 - H304;  Skin Irritation - Category 2 - H315, Specific Target Organ Toxicity - Single Exposure - Category 3 - H336	<b>5,00- 10,00</b>
<b>141-78-6</b>	<b>ethyl acetate</b> EC number: 205-500-4 Record number 01-2119475103-46  Flammable Liquids - Category 2 - H225;  Eye Irritation - Category 2A - H319, Specific Target Organ Toxicity - Single Exposure - Category 3 - H336	<b>10,00- 25,00</b>
<b>41556-26-7</b>	<b>BENZOTRIAZOL DERIVATIVES Index no. 607-176-00-3</b> EC number: 400-830-7 Record number 01-0000015075-76  Skin Sensitizer - Category 1 - H317;  Aquatic Chronic 2 - H411	<b>0,50- 1,00</b>
<b>82919-37-7</b>	<b>Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate</b> EC number: 280-060-4 Record number 01-2119976378-19  Skin Sensitizer - Category 1 - H317;  Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410; Flammable Liquids - Category 4 - H227	<b>0,0015- 0,50</b>
<b>108-31-6</b>	<b>Methyl 1,2,2,6,6-pentamethyl-4-piperidyl maleic anhydride</b> EC number: 203-571-6 Record number 01-2119472428-31  Skin Corrosion - Category 1B - H314, Serious Eye Damage - Category 1 - H318;  Respiratory Sensitizer - Category 1 - H334, Specific Target Organ Toxicity - Repeated Exposure - Category 1 - H372;  Acute Toxicity (Oral) - Category 4 - H302,	<b>0,00-0,0015</b>

*(continued on page 4)*

according to 2001/58 EC

2100922

Reviewed on: 28/06/2021

Printing date: 30/06/2021

**PRODUCT : ALPOCRYL KLARLACK 5454**

(continued of page 3)

Skin Sensitizer - Category 1 - H317

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

**04 First aid measures**

- **After inhalation:**  
Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- **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.

**07 Handling and storage**

- **Handling:**
- **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).

(continued on page 5)

according to 2001/58 EC

2100922

Reviewed on: 28/06/2021

Printing date: 30/06/2021

**PRODUCT : ALPOCRYL KLARLACK 5454**

(continued of page 4)

- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Prevent impact and friction.  
Keep respiratory protective device available.
- **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:**

<b>123-86-4 n-butyl acetate</b>			
<b>EL</b>			
	Long-term value	20	ppm
<b>EV</b>			
	Short-term value	950	mg/m3
		200	ppm
	Long-term value	710	mg/m3
		150	ppm
<b>1330-20-7 xylene</b>			
<b>EL</b>			
	Short-term value	150	ppm
	Long-term value	100	ppm
<b>EV</b>			
	Short-term value	650	mg/m3
		150	ppm
	Long-term value	435	mg/m3
		100	ppm
<b>100-41-4 ethylbenzene</b>			
<b>EL</b>			
	Long-term value	20	ppm
<b>IARC 2B</b>			
<b>EV</b>			
	Short-term value	540	mg/m3
		125	ppm
	Long-term value	435	mg/m3
		100	ppm
<b>80-62-6 methyl methacrylate</b>			
<b>EL</b>			
	Short-term value	100	ppm
	Long-term value	50	ppm
<b>S(D)</b>			
<b>EV</b>			
	Short-term value	100	ppm
	Long-term value	50	ppm

(continued on page 6)

according to 2001/58 EC

2100922

Reviewed on: 28/06/2021

Printing date: 30/06/2021

**PRODUCT : ALPOCRYL KLARLACK 5454**

(continued of page 5)

**108-88-3 toluene****EL****Long-term value****20****ppm****R****EV****Long-term value****20****ppm****141-78-6 ethyl acetate****EL****Long-term value****150****ppm****EV****Long-term value****1,440****mg/m3****400****ppm**

- **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  
Store protective clothing separately.  
Avoid contact with the skin.  
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 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
- **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:**

77 °C

**Flash point:**

-1 °C c.c.

**Flammability (solid, gas):**

Not applicable.

**Ignition temperature:**

425 °C

**Decomposition temperature:**

Not determined.

**Auto-ignition temperature:**

Not determined.

(continued on page 7)

according to 2001/58 EC

2100922

Reviewed on: 28/06/2021

Printing date: 30/06/2021

**PRODUCT : ALPOCRYL KLARLACK 5454**

(continued on page 6)

<b>Explosive properties:</b>	Not determined.			
<b>Explosion limits:</b>				
<b>Lower:</b>	1 Vol %			
<b>Upper:</b>	11 Vol %			
<b>Vapour pressure:</b>	at 20 °C	6,7000 mbar	at 50 °C	55,0000 mbar
<b>Density:</b>	0,9600 g/cm3			
<b>Solubility in / Miscibility with water:</b>	Not determined.			
<b>Viscosity:</b>	Not determined.			
.	at 20 °C 30 - 40 s DIN 4 mm			
<b>Other information</b>	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**  
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: 5000 mg/kg (rat) Dermal, LD50: 12124 mg/kg (Rabbit) Inhalative, LC50/4h: 5320 mg/l (mouse) Oral, LD50: 5620 mg/kg (Rabbit) Inhalative, LC50/4h: 1600 mg/l (rat) Oral, LD50: 10000 mg/kg (rat) Oral, LD50: 5750 mg/kg (rat) Dermal, LD50: 16000 mg/kg (Rabbit) Oral, LD50: 400 mg/kg (rat) Dermal, LD50: 2620 mg/kg (Rabbit)
  - 1330-20-7 xylene**
  - 100-41-4 ethylbenzene**
  - 80-62-6 methyl methacrylate**
  - 868-77-9 2-hydroxyethyl methacrylate**
  - 108-88-3 toluene**
  - 141-78-6 ethyl acetate**
  - 7631-86-9 silicon dioxide, chemically prepared**
  - 108-83-8 2,6-dimethylheptan-4-one**
  - 108-31-6 maleic anhydride**
- **Primary irritant effect:**
- Skin corrosion/irritation  
Irritant to skin and mucous membranes.
- Serious eye damage/irritation  
No irritating effect.
- **Respiratory or skin sensitisation**  
Sensitisation possible through skin contact.
- **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:  
Irritant

CDN

(continued on page 8)

2100922

Reviewed on: 28/06/2021

Printing date: 30/06/2021

**PRODUCT : ALPOCRYL KLARLACK 5454**

(continued of page 7)

**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.

**13 Disposal considerations**

- **Uncleaned packaging:**
- **Recommendation:**  
Disposal must be made according to official regulations.

**14 Transport information**• **UN-Number**

TDG UN1263

IMDG UN1263

IATA UN1263

• **UN proper shipping name**

TDG 1263 PAINT

IMDG PAINT

IATA PAINT

• **Transport hazard class(es)**

TDG (Transport dangerous goods):

TDG class: 3 Flammable liquids.

Label 3



IMDG

Class 3 Flammable liquids.

Label 3



IATA

Class 3 Flammable liquids.

(continued on page 9)



according to 2001/58 EC

2100922

Reviewed on: 28/06/2021

Printing date: 30/06/2021

**PRODUCT : ALPOCRYL KLARLACK 5454**

(continued of page 8)

**Label**

3

• **Packing group**

TDG II

IMDG II

IATA II

• **Environmental hazards:**

Not applicable.

• **Special precautions for user**

Warning: Flammable liquids.

**Danger code (Kemler):** 33**EMS Number:** F-E,S-E• **Transport in bulk according to Annex II of MARPOL73/78 and the IBC**

Not applicable.

• **Transport/Additional information:**

Not applicable.

**Excepted quantities (EQ):** E2**Limited quantities (LQ)** 5L**Transport category** 2**Tunnel restriction code** D/E**IMDG****Limited quantities (LQ)** 5L**Excepted quantities (EQ)** E2• **UN "Model Regulation":**

UN 1263 PAINT, 3, II

**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 31,19

II 24,02

I

• **Waterhazard class:**

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

CDN

(continued on page 10)

according to 2001/58 EC

2100922

Reviewed on: 28/06/2021

Printing date: 30/06/2021

**PRODUCT : ALPOCRYL KLARLACK 5454***(continued of page 9)***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.
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.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
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.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

- **Department issuing MSDS:**

Environment protection department.

- **Abbreviations and acronyms:**

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.*