*** TEKNOS

according to 1907/2006/EC, Article 31

3749513

Reviewed on: 02/12/2021 Printing date: 02/12/2021

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

- 1.1 Product identifier
- Trade name: ALPOCRYL KLARLACK 5454-50
- Article number / Safety Data Sheet: 148700
- 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

Skin Irrit. 2 - H315 Causes skin irritation. Eye Irrit. 2 - H319 Causes serious eye irritation. Skin Sens. 1 - H317 May cause an allergic skin reaction. STOT SE 3 - H336 May cause drowsiness or dizziness.



GHS08

Repr. 2 - H361d Suspected of damaging the unborn child. STOT RE 2 - H373 May cause damage to organs through prolonged or repeated exposure.

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

GHS08

 Signal word Danger

(continued on page 2)



according to 1907/2006/EC, Article 31

3749513

Reviewed on: 02/12/2021 Printing date: 02/12/2021

PRODUCT: ALPOCRYL KLARLACK 5454-50

(continued of page 1)

· Hazard-determining components of labelling:

n-butyl acetate / toluene / ethyl acetate / BENZOTRIAZOL DERIVATIVES

Index no. 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.

H361d Suspected of damaging the unborn child.

H373 May cause damage to organs through prolonged or repeated

exposure.

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.

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:

EC number: 204-658-1

Record number 01-2119485493-29 Flam. Liq. 3 - H226; STOT SE 3 -

H336

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

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; Acute Tox. 4

- H332

80-62-6 methyl methacrylate 0,0015- 0,50

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 -

(continued on page 3)

GB



according to 1907/2006/EC, Article 31

3749513

Reviewed on: 02/12/2021 Printing date: 02/12/2021

PRODUCT :	ALPOCRYL KLARLACK 5454-50	
	H335	(continued of page 2)
108-88-3	toluene EC number: 203-625-9 Record number 01-2119471310-51 Flam. Lig. 2 - H225; Repr. 2 -	10,00- 25,00
	H361d, STOT RE 2 - H373, Asp. Tox. 1 - H304; Skin Irrit. 2 - H315, STOT SE 3 - H336	
141-78-6	ethyl acetate EC number: 205-500-4 Record number 01-2119475103-46	10,00- 25,00
	BENZOTRIAZOL DERIVATIVES Index no. 607-176- 00-3 EC number: 400-830-7 Record number 01-0000015075-76 ◆ Skin Sens. 1 - H317; ◆ Aquatic	0,50- 1,00
41556-26-7	Chronic 2 - H411 Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate Record number 01-2119491304-40 Skin Sens. 1 - H317; Aquatic	0,50- 1,00
82919-37-7	Acute 1 - H400, Aquatic Chronic 1 - H410 Methyl1,2,2,6,6-pentamethyl-4-piperidyl EC number: 280-060-4 Record number 01-2119976378-19 Skin Sens. 1 - H317; Aquatic	0,0015- 0,50
• Additional in For the wor	Acute 1 - H400, Aquatic Chronic 1 - H410 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 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. 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.

GB

TEKNOS

according to 1907/2006/EC, Article 31

3749513

Reviewed on: 02/12/2021 Printing date: 02/12/2021

> PRODUCT: **ALPOCRYL KLARLACK 5454-50**

> > (continued of page 3)

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

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.

Keep respiratory protective device available.

• 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.

TEKNOS

(continued on page 6)

according to 1907/2006/EC, Article 31

3749513

Reviewed on: 02/12/2021 Printing date: 02/12/2021

PRODUCT: ALPOCRYL KLARLACK 5454-50

			(continued of page 4)
<u>CTION</u>	08: Exposure contro	ols/personal protection	
8.1 Cor	ntrol parameters		
_		quire monitoring at the workplace:	
123-86-4	n-butyl acetate		
WEL	01	000	
	Short-term value	966	mg/m3
		200	ppm
	Long-term value	724	mg/m3
1000 00		150	ppm
1330-20-	7 xylene		
WEL	01	444	
	Short-term value	441	mg/m3
		100	ppm
	Long-term value	220	mg/m3
	OL PHOY	50	ppm
	Sk; BMGV		
100-41-4	ethylbenzene		
WEL			
	Short-term value	552	mg/m3
		125	ppm
	Long-term value	441	mg/m3
		100	ppm
	Sk		
80-62-6	methyl methacryl	ate	
WEL			
	Short-term value	416	mg/m3
		100	ppm
	Long-term value	208	mg/m3
		50	ppm
108-88-3	toluene		
WEL			
	Short-term value	384	mg/m3
		100	ppm
	Long-term value	191	mg/m3
	OI:	50	ppm
 -	Sk		
141-78-6	ethyl acetate		
WEL		4400	
	Short-term value	1468	mg/m3
		400	ppm
	Long-term value	734	mg/m3
Ingredia	ents with biological limit values:	200	ppm
1330-20-	-		
BMGV	, Ayiciic		
DINGV	650 mmol/mol creatinine		
	Medium: urine		
	Sampling time: post shift	:	
A al aliti a .	Parameter: methyl hippuric and information:	aciu	

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according to 1907/2006/EC, Article 31

3749513

Reviewed on: 02/12/2021 Printing date: 02/12/2021

PRODUCT: ALPOCRYL KLARLACK 5454-50

(continued of page 5)

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.

Immediately remove all soiled and contaminated clothing

Store protective clothing separately.

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
- Body protection: Protective work clothing

SECTION 09: Physical and chemical properties

9.1 Information on basic physical and che	emical 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				
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:	11 Vol %				
Vapour pressure:	at 20 °C mbar	10,7000 mbar at	50 °C	55,0000	
Density:	0,9600 g/cm3				
Solubility in / Miscibility with					
water:	Not determined.				
Viscosity:					
			(continu	ed on page 7)	

(continued on page 7)



according to 1907/2006/EC, Article 31

3749513

Reviewed on: 02/12/2021 Printing date: 02/12/2021

PRODUCT: ALPOCRYL KLARLACK 5454-50

				(continued of page 6)
	Not determined.			
	at	23 °C	35 s DIN 4 mm	
9.2 Other information	No fu	rther releva		

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:

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: 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: 2460 mg/kg (rat) Dermal, LD50: 3400 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

78-83-1 butanol

- · Primary irritant effect:
- · Skin corrosion/irritation

Irritant to skin and mucous membranes.

- Serious eye damage/irritation
- 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

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
 Repr. 2

- 11.2 Information on other hazards
- Endocrine disrupting properties

* 541-02-6 decamethylcyclopentasiloxane : II * 556-67-2 octamethylcyclotetrasiloxane : III

GB



according to 1907/2006/EC, Article 31

3749513

Reviewed on: 02/12/2021 Printing date: 02/12/2021

PRODUCT: ALPOCRYL KLARLACK 5454-50

(continued of page 7)

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.

- · 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

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 $\ensuremath{\mathsf{S}}$

- · 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.

(continued on page 9)



according to 1907/2006/EC, Article 31

3749513

Reviewed on: 02/12/2021 Printing date: 02/12/2021

> PRODUCT: **ALPOCRYL KLARLACK 5454-50**

> > (continued of page 8)

Label



IMDG

Class

3 Flammable liquids.

Label



IATA

Class

3 Flammable liquids.

Label



• 14.4 Packing group

ADR Ш **IMDG** П П IATA

• 14.5 Environmental hazards:

Not applicable.

· 14.6 Special precautions for user Warning: Flammable liquids. Danger code (Kemler): 33

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):

E2 5L

Limited quantities (LQ) Transport category **Tunnel restriction code**

2 D/E

IMDG

Limited quantities (LQ)

5L

Excepted quantities (EQ)

E2

• UN "Model Regulation": UN 1263 PAINT, 3, II

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

(continued on page 10)

Page: 10 / 10

MATERIAL SAFETY DATA SHEET

**TEKNOS

according to 1907/2006/EC, Article 31

3749513

Reviewed on: 02/12/2021 Printing date: 02/12/2021

PRODUCT: ALPOCRYL KLARLACK 5454-50

(continued of page 9)

 Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Artists (20)

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, 48

· National regulations:

- · Technical instructions (air):
- Class Share in %

III 30,41 II 25,86

· 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.

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.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.

H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H361d Suspected of damaging the unborn child.

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:

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.