

according to 1907/2006/EC, Article 31

2872515

Reviewed on: 28/06/2021 Printing date: 30/06/2021

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

- 1.1 Product identifier
- Trade name: ALPOCRYL KLARLACK 5454
- Article number / Safety Data Sheet: 148400
- 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

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TEKNOS

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PRODUCT: **ALPOCRYL KLARLACK 5454**

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· Hazard-determining components of labelling:

n-butyl acetate / ethyl acetate / toluene / 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:

CAS Number 123-86-4 n-butyl acetate 25,00-40,00 EC number: 204-658-1 Record number 01-2119485493-29 🚸 Flam. Liq. 3 - H226; 안 STOT SE 3 -H336 ethyl acetate 141-78-6 10,00-25,00 EC number: 205-500-4 Record number 01-2119475103-46

Flam. Lig. 2 - H225; 😲 Eye Irrit. 2 - H319-EUH066, STOT SE 3 - H336

108-88-3 toluene 10,00-25,00

EC number: 203-625-9

Record number 01-2119471310-51 📀 Flam. Lig. 2 - H225; 윻 Repr. 2 -

H361d, STOT RE 2 - H373, Asp. Tox. 1 - H304; Skin Irrit. 2 - H315, STOT SE 3 - H336

1330-20-7 xylene 10,00-25,00

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

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PRODUCT:	ALPOCRYL KLARLACK 5454	
100-41-4	ethylbenzene 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 BENZOTRIAZOL DERIVATIVES Index no. 607-176-	(continued of page 2) 1,00- 5,00 0,50- 1,00
	00-3 EC number: 400-830-7 Record number	
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 Methyl1,2,6,6-pentamethyl-4-piperidyl EC number: 280-060-4 Record number 01-2119976378-19 Skin Sens. 1 - H317; Aquatic	0,0015- 0,50
85711-46-2	Acute 1 - H400, Aquatic Chronic 1 - H410 Fatty acids, C14-18 and C16-18-unsatd., maleated Record number 01-2119976378-19 Skin Irrit. 2 - H315, Skin Sens. 1 -	0,0015- 0,50
108-31-6	H317 maleic anhydride 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	0,00-0,0015
80-62-6	- H372;	0,0015- 0,50
• Additional in For the wor	2 - H315, Skin Sens. 1 - H317, STOT SE 3 - H335	

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:

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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.

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:

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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.

SECTION 08: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

123-86-4 n-butyl acetate

WEL

mg/m3	966	Short-term value	
ppm	200		
mg/m3	724	g-term value	Long
ppm	150		
		ethyl acetate	41-78-6

14

WEL

Short-term value	1468	mg/m3
	400	ppm
Long-term value	734	mg/m3
	200	nnm

108-88-3 toluene

WEL

Short-term value 384 mg/m3 100 ppm Long-term value 191 mg/m3 50 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

100-41-4 ethylbenzene

WEL

Short-term value 552 mg/m3 125 ppm Long-term value 441 mg/m3 100 ppm

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Sk

80-62-6 methyl methacrylate

WEL

 Short-term value
 416
 mg/m3

 100
 ppm

 Long-term value
 208
 mg/m3

) ppm

· Ingredients with biological limit values:

1330-20-7 xylene

BMGV

650 mmol/mol creatinine

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.

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 chemical properties

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

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PRODUCT:	ALPOCRYL	KIADI	VCK	5/5/
PRODUCI:	ALPUCRIL	NLANL	AUN	2424

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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 6,7000 mbar at 50 °C 55,0000 mbar
Density:	0,9500 g/cm3
Solubility in / Miscibility with	
water:	Not determined.
Viscosity:	
	Not determined.
	at 23 °C 25 - 35 s DIN 4 mm
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:

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: 5620 mg/kg (Rabbit) Inhalative, LC50/4h: 1600 mg/l (rat) Oral, LD50: 5000 mg/kg (rat) Dermal, LD50: 12124 mg/kg (Rabbit) Inhalative, LC50/4h: 5320 mg/l (mouse) 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: 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) Oral, LD50: 7872 mg/kg (rat) Oral, LD50: 5050 mg/kg (rat)

 141-78-6
 ethyl acetate

 108-88-3
 toluene

 1330-20-7
 xylene

 100-41-4
 ethylbenzene

7631-86-9 silicon dioxide, chemically prepared

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

108-31-6 maleic anhydride 80-62-6 methyl methacrylate

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868-77-9 2-hydroxyethyl methacrylate

- · 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

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 $% \left(1\right) =\left(1\right) +\left(1\right) +$

- Uncleaned packaging:
- Recommendation:

Disposal must be made according to official regulations.

GB



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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 || IMDG || IATA || I

• 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
Limited quantities (LQ) 5L
Transport category 2
Tunnel restriction code D/E

IMDG

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Limited quantities (LQ) 5L **Excepted quantities (EQ)** F2 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
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 40,
- · National regulations:
- Technical instructions (air):
- Class Share in %

27,59 III 22,87 ΤT

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

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

Repeated exposure may cause skin dryness or cracking.

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

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MATERIAL SAFETY DATA SHEET



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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.