

2639719

Reviewed on: 11/07/2022

Printing date: 11/07/2022

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

- **Product identifier**

- *Trade name:*
ALPOCRYL LH 5356

- Article number / Safety Data Sheet:
535600

- **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 3 - H226 Flammable liquid and vapour.



GHS07

Acute Toxicity (Inhalation) - Category 4 - H332 Harmful if inhaled.
Skin Irritation - Category 2 - H315 Causes skin irritation.
Specific Target Organ Toxicity - Single Exposure - Category 3 - H336
May cause drowsiness or dizziness.

*



GHS08

*

Carcinogenicity - Category 2 - H351 Suspected of causing cancer.

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

*



*

GHS02 GHS07 GHS08

- Signal word
Warning

- Hazard-determining components of labelling:
titanium dioxide / xylene / ethylbenzene / 2-butoxyethyl acetate
- Hazard statements
H226 Flammable liquid and vapour.
H332 Harmful if inhaled.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
- Precautionary statements
P201 Obtain special instructions before use.

*

*

(continued on page 2)

according to 2001/58 EC

2639719

Reviewed on: 11/07/2022

Printing date: 11/07/2022

PRODUCT : ALPOCRYL LH 5356

(continued of page 1)

- * 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	n-butyl acetate 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	xylene 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	ethylbenzene 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	methyl methacrylate 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, Specific Target Organ Toxicity - Single Exposure - Category 3 - H335	0,0015- 0,50
112-07-2	2-butoxyethyl acetate EC number: 203-933-3 Record number 01-2119475112-47  Acute Toxicity (Dermal) - Category 4 - H312, Acute Toxicity (Inhalation) - Category 4 - H332; Flammable Liquids - Category 4 -	1,00- 5,00

(continued on page 3)

according to 2001/58 EC


2639719

Reviewed on: 11/07/2022

Printing date: 11/07/2022

PRODUCT : ALPOCRYL LH 5356

(continued of page 2)

- | | | | |
|---|-------------------|--|---------------------|
| * | 13463-67-7 | H227
titanium dioxide
EC number: 236-675-5
Record number 01-2119489379-17
 Carcinogenicity - Category 2 - H351 | 10,00- 25,00 |
|---|-------------------|--|---------------------|
- * **Additional information:**
 For the wording of the listed risk phrases refer to section 16.

04 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.
- * 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:**
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
- **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.

according to 2001/58 EC

2639719

Reviewed on: 11/07/2022

Printing date: 11/07/2022

PRODUCT : ALPOCRYL LH 5356

(continued of page 3)

07 Handling and storage

- * **Handling:**
- * *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.
- * 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:			
123-86-4	n-butyl acetate		
EL			
*	Short-term value	150	ppm
*	Long-term value	50	ppm
EV			
*	Short-term value	950	mg/m3
*		200	ppm
*	Long-term value	710	mg/m3
*		150	ppm
1330-20-7	xylene		
EL			
*	Short-term value	150	ppm
*	Long-term value	100	ppm
EV			
*	Short-term value	650	mg/m3
*		150	ppm
*	Long-term value	435	mg/m3
*		100	ppm
100-41-4	ethylbenzene		
EL			
*	Long-term value	20	ppm
IARC 2B			
EV			
*	Short-term value	540	mg/m3
*		125	ppm
*	Long-term value	435	mg/m3
*		100	ppm

(continued on page 5)

according to 2001/58 EC

2639719

Reviewed on: 11/07/2022

Printing date: 11/07/2022

PRODUCT : ALPOCRYL LH 5356

(continued of page 4)

- * **80-62-6 methyl methacrylate**
- * **EL**
- | | | |
|------------------|-----|-----|
| Short-term value | 100 | ppm |
| Long-term value | 50 | ppm |
- * **S(D)**
- * **EV**
- | | | |
|------------------|-----|-----|
| Short-term value | 100 | ppm |
| Long-term value | 50 | ppm |
- * **112-07-2 2-butoxyethyl acetate**
- * **EL**
- | | | |
|-----------------|----|-----|
| Long-term value | 20 | ppm |
|-----------------|----|-----|
- * **EV**
- | | | |
|-----------------|----|-----|
| Long-term value | 20 | 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: 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*
 - * *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:	124 °C
---	--------

Flash point:	27 °C
---------------------	-------

Flammability (solid, gas):	Not applicable.
-----------------------------------	-----------------

Ignition temperature:	425 °C
------------------------------	--------

(continued on page 6)

according to 2001/58 EC

2639719

Reviewed on: 11/07/2022

Printing date: 11/07/2022

PRODUCT : ALPOCRYL LH 5356

(continued of page 5)

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 6,7000 mbar at 50 °C 55,0000 mbar
Density:	1,1500 g/cm3
Solubility in / Miscibility with water:	Not determined.
Viscosity:	
•	250 - 350 mPa.s
•	Not determined.
Solvent content:	
Organic solvents:	52,00 %
Other information	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)
- 1330-20-7 xylene**
Oral, LD50: 4300 mg/kg (rat)
Dermal, LD50: 2000 mg/kg (Rabbit)
- 100-41-4 ethylbenzene**
Oral, LD50: 3500 mg/kg (rat)
Dermal, LD50: 17800 mg/kg (Rabbit)
- 80-62-6 methyl methacrylate**
Oral, LD50: 7872 mg/kg (rat)
- 868-77-9 2-hydroxyethyl methacrylate**
Oral, LD50: 5050 mg/kg (rat)
- 108-88-3 toluene**
Oral, LD50: 5000 mg/kg (rat)
Dermal, LD50: 12124 mg/kg (Rabbit)
Inhalative, LC50/4h: 5320 mg/l (mouse)
- 112-07-2 2-butoxyethyl acetate**
Oral, LD50: 2400 mg/kg (rat)
Dermal, LD50: 1580 mg/kg (Rabbit)
- 7631-86-9 silicon dioxide, chemically prepared**
Oral, LD50: 10000 mg/kg (rat)
- 7447-41-8 lithium chloride**

(continued on page 7)

according to 2001/58 EC

2639719

Reviewed on: 11/07/2022

Printing date: 11/07/2022

PRODUCT : ALPOCRYL LH 5356

(continued of page 6)

- * Oral, LD50: 526 mg/kg (rat)
- * **67-68-5 dimethyl sulfoxide**
- * Oral, LD50: 14500 mg/kg (rat)
- * **108-65-6 2-methoxy-1-methylethyl acetate**
- * Oral, LD50: 8532 mg/kg (rat)
- * Inhalative, LC50/4h: 35,7 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)
- * **50-00-0 formaldehyde**
- * Oral, LD50: >200 mg/kg (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)
- * **78-83-1 butanol**
- * Oral, LD50: 2460 mg/kg (rat)
- * Dermal, LD50: 3400 mg/kg (Rabbit)
- * **140-88-5 ethyl acrylate**
- * Oral, LD50: 800 mg/kg (rat)
- * Dermal, LD50: 1834 mg/kg (Rabbit)
- * Inhalative, LC50/4h: 2180 mg/l (rat)
- * **Primary irritant effect:**
- * Skin corrosion/irritation
- * Irritant to skin and mucous membranes.
- * **Serious eye damage/irritation**
- * No irritating effect.
- * **Respiratory or skin sensitisation**
- * No sensitising effects known.
- * **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:
- * Harmful
- * Irritant

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.
- **Additional ecological information:**
- *General notes:*
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.

CDN

(continued on page 8)

2639719

Reviewed on: 11/07/2022

Printing date: 11/07/2022

PRODUCT : ALPOCRYL LH 5356*(continued of page 7)***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.

Label **3**• **Packing group**

TDG III

IMDG III

IATA III

• **Environmental hazards:**

Not applicable.

• **Special precautions for user**

Warning: Flammable liquids.

Danger code (Kemler): 30

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): E1

Limited quantities (LQ) 5L

Transport category 3

Tunnel restriction code D/E

IMDG

(continued on page 9)

according to 2001/58 EC

2639719

Reviewed on: 11/07/2022

Printing date: 11/07/2022

PRODUCT : ALPOCRYL LH 5356

(continued of page 8)

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

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

* **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 33,18
- * II 16,35
- I

- **Waterhazard class:**

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

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.
- 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.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- * H351 Suspected of causing cancer.
- * H373 May cause damage to organs through prolonged or repeated exposure.

- **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.