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	(continued of page 1)
	ly flammable liquid and vapour.
H315 Cau	ses skin irritation.
H319 Cau	ses serious eye irritation.
	cause an allergic skin reaction.
H336 May	cause drowsiness or dizziness.
H361 Sus	pected of damaging fertility or the unborn child.
H333 May	be harmful if inhaled.
H412 Har	nful to aquatic life with long lasting effects.
 Precaution 	nary statements
P201 Obta	ain special instructions before use.
P202 Do 1	not handle until all safety precautions have been read and understood.
P210 Kee	o away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P302+P35	2 IF ON SKIN: Wash with plenty of water.
P403+P23	3 Store in a well-ventilated place. Keep container tightly closed.
P501 Disp	ose of contents/container in accordance with local/regional/ national/international regulations.

Chemical characterization: Mixtures

 Description: Mixture of substances listed below with nonhazardous additions.

• Dangerous components:

 Dangerous co CAS Number 	,	%
123-86-4	n-butyl acetate EC number: 204-658-1 Record number 01-2119485493-29 ♦ Flam. Liq. 3 - H226; ♦ STOT SE 3 -	25,00- 40,00
	H336	
1330-20-7	xylene EC number: 215-535-7 Record number 01-2119488216-32 Ilam. Liq. 3 - H226; I Acute Tox.	10,00- 25,00
	4 - H312, Acute Tox. 4 - H332, Skin Irrit. 2	
100-41-4	- H315 ethylbenzene EC number: 202-849-4	1,00- 5,00
	Record number 01-2119489370-35	
	- H332	
80-62-6	methyl methacrylate EC number: 201-297-1 Record number 01-2119452498-28 Flam. Liq. 2 - H225; Skin Irrit.	0,0015- 0,50
	2 - H315, Skin Sens. 1 - H317, STOT SE 3 - H335	
108-88-3	H335 toluene EC number: 203-625-9 Record number 01-2119471310-51 � Flam. Liq. 2 - H225; � Repr. 2 -	5,00- 10,00
	H361, STOT RE 2 - H373, Asp. Tox. 1 - H304; Skin Irrit. 2 - H315, STOT SE 3 - H336	
141-78-6	ethyl acetate	10,00- 25,00 (continued on page 3)



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		(continued of page 2)
	EC number: 205-500-4 Record number 01-2119475103-46	(
	2A - H319, STOT SE 3 - H336 BENZOTRIAZOL DERIVATIVES Index no. 607-176- 00-3	0,50- 1,00
	EC number: 400-830-7 Record number 01-0000015075-76	
	Chronic 2 - H411	
41556-26-7	Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate Record number 01-2119491304-40 Skin Sens. 1 - H317; Aquatic	0,50- 1,00
	Acute 1 - H400, Aquatic Chronic 1 - H410; H227, Acute Tox. 5 - H303, Acute Tox. 5 - H313, Acute Tox. 5 - H333	
82919-37-7	Methyl1,2,2,6,6-pentamethyl-4-piperidyl EC number: 280-060-4 Record number 01-2119976378-19	0,0015- 0,50
	Acute 1 - H400, Aquatic Chronic 1 - H410	
108-31-6	maleic anhydride EC number: 203-571-6 Record number 01-2119472428-31 ঔ Skin Corr. 1B - H314, Eye Dam. 1 -	0,00-0,0015
	H318;	
Additional in	Sens. 1 - H317; Acute Tox. 5 - H313 formation:	

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: 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.

(continued on page 4)



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 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).

 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.

 Ingredients with I 	limit values that re	quire monitoring at the workplace:	
123-86-4	n-butyl acetate		
PDK			
Short-term value		200	mg/m3
Long-term value		50	mg/m3



			(continued of page 4
1330-20-	7 xylene		
PDK			
	Short-term value	150	mg/m3
	Long-term value	50	mg/m3
	¤a¡# ±/±⁰± ýa¥#		
100-41-4	ethylbenzene		
PDK			
	Short-term value	150	mg/m3
	Long-term value	50	mg/m3
	¤a¡# ±/±⁰± ýa¥#		
80-62-6	methyl methacry	ate	
PDK	a		
	Short-term value	20	mg/m3
	Long-term value	10	mg/m3
100 00 0	¤a¡# ±/±⁰± ýa¥#		
108-88-3	toluene		
PDK	Short-term value	150	
	Long-term value	50	mg/m3 mg/m3
	¤a;# ±/±º± ýa¥#	50	ing/ins
141-78-6	ethyl acetate		
PDK	ettiyi acetate		
1 BR	Short-term value	200	mg/m3
	Long-term value	50	mg/m3
	¤a¡# ±/±⁰± ýa¥#		3
	nal information:	used as basis	
	s valid during the making were al protective equipment:	used as basis.	
 Genera 	I protective and hygienic meas		
The usu	al precautionary measures ar way from foodstuffs, beverage	e to be adhered to when handling chem	icals.
	ately remove all soiled and co		
	rotective clothing separately.		
	ontact with the skin. ontact with the eyes and skin.		
Do not	eat or drink while working.		
	to clean skin thoroughly after		
		ratory protective device recommended. al has to be impermeable and resistant	to the product/ the substance/ the
prepara	tion. Due to missing tests no r	ecommendation to the glove material ca	an be given for the product/ the
		lection of the glove material on consider ctive gloves Impervious gloves	ration of the penetration times, rates
 Materia 		enve gioves impervious gioves	
		bes not only depend on the material, but	
		urer. As the product is a preparation of a ed in advance and has therefore to be c	
 Penetra 	tion time of glove material		
The exa observe		be found out by the manufacturer of the	protective gloves and has to be
		cording to EN 374 part III are not perform	ned under practical conditions.
Therefo	re a maximum wearing time, w	which corresponds to 50% of the penetra	
	tection: Safety glasses otection: Protective work cloth	in a	
 Body ni 	DIECTION PROTECTIVE WORK CONT	100	



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	(continued of page 5
09 Physical and chemical prop	
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.
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:	0,9600 g/cm3
Solubility in / Miscibility with	
water:	Not determined.
Viscosity:	
	Not determined.
	at 20 °C 30 - 40 s DIN 4 mm

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

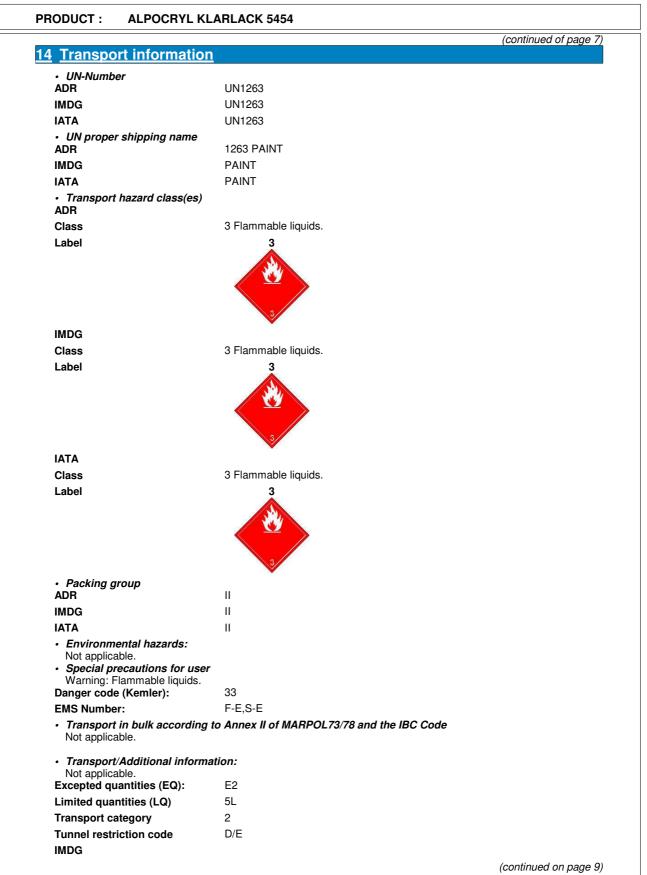
Oral, LD50: 13100 mg/kg (rat) Dermal, LD50: >5000 mg/kg (Rabbit) Inhalative, LC50/4h: >21 mg/l (rat) Oral, LD50: 4300 mg/kg (rat) Dermal, LD50: 2000 mg/kg (Rabbit) Oral, LD50: 3500 mg/kg (rat) Dermal, LD50: 17800 mg/kg (Rabbit) Oral, LD50: 5050 mg/kg (rat) Oral, LD50: 5000 mg/kg (rat) Dermal, LD50: 12124 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: 2620 mg/kg (Rabbit) Inhalative, LC50/4h: 5320 mg/l (mouse) Oral, LD50: 5750 mg/kg (rat) Dermal, LD50: 16000 mg/kg (Rabbit) Oral, LD50: 2620 mg/kg (Rabbit) Oral, 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



108-88-3toluene141-78-6ethyl acetate7631-86-9silicon dioxide, chemically prepa108-83-82,6-dimethylheptan-4-one108-31-6maleic anhydride• Primary irritant effect:Skin corrosion/irritation	(continued of page of ared
7631-86-9silicon dioxide, chemically preparation108-83-82,6-dimethylheptan-4-one108-31-6maleic anhydride• Primary irritant effect:• Skin corrosion/irritation	ared
108-83-82,6-dimethylheptan-4-one108-31-6maleic anhydride• Primary irritant effect:Skin corrosion/irritation	ared
108-83-82,6-dimethylheptan-4-one108-31-6maleic anhydride• Primary irritant effect:Skin corrosion/irritation	
 108-31-6 maleic anhydride Primary irritant effect: Skin corrosion/irritation 	
 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 can cause deformations.	
	the calculation method of the General EU Classification
Guidelines for Preparations as issued in the latest vers	
Irritant	
 The standard state of the standard state of the state of	
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.	
 Ecotoxical effects: Remark: 	
Harmful to fish	
Additional ecological information:	
General notes:	
Harmful to aquatic organisms Water hazard class 2 (German Regulation) (Self-asse	ssment): hazardous for water
Do not allow product to reach ground water, water cou	
Danger to drinking water if even small quantities leak i	
Disposal considerations	
Waste treatment methods	
 European and swiss waste code 	
08	
WASTES FROM THE MANUFACTURE, FORMULA	
COATINGS (PAINTS, VARNISHES AND VITF AND PRINTING INKS	ALOUS ENAMELSI, ADRESIVES, SEALANIS
08 01	
wastes from MFSU and removal of pair	nt and varnish
08 01 11	
waste paint and varnish containing c	organic solvents or other hazardous
substances	
Uncleaned packaging:	
Recommendation:	
Disposal must be made according to official regulation	IS.







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PRODUCT :	ALPOCRYL KLARLACK 5454
	(continued of page
Limited qua	ntities (LQ) 5L
Excepted qu	Jantities (EQ) E2
• UN "Mode	el Regulation":
UN 1263 F	PAINT, 3, II
5 <u>Regulat</u>	ory information
• National I	regulations:
	n about limitation of use: e-mentioned manufacturer's information on the handling of isoc yanates is contained in the safety data
	e product. The Euro pean Committee of Paint, Printing Ink and Artists 'Colours Manufacture rs'
	ns (CEPE) provides the following information on coatings isocyanates: Ready-to-use paints containing
	s may have an ir ritant effect on mucous membranes - especially on breathing organs - a nd cause
	itivity reactions. Inhalation of vapour or spray mis t may cause sensitisation. When handling paints
	isocyanates, all precautions required for solvent-containing paints must be follo wed. Vapour and spi ticular should not be inhaled. Person s who are allergic, asthmatic, or prone to respiratory ailments
	work with isocyanate-containing paints.
Tachnical	instructions (six)
 Class Sha 	instructions (air): re in %
III	31,19
II	24,02
I	
Waterhaza	ard class:
Water haz	ard class 2 (Self-assessment): hazardous for water.
6 Other in	formation
	tion is based on our present knowledge. However, this shall not constitute a guarantee for any specific
	ires and shall not establish a legally valid contractual relationship.
 Relevant p 	
H225	Highly flammable liquid and vapour.
H226 H227	Flammable liquid and vapour. Combustible liquid.
H302	Harmful if swallowed.
11002	May be harmful if swallowed.
H303	
H303 H304	May be fatal if swallowed and enters airways.
H304 H312	Harmful in contact with skin.
H304 H312 H313	Harmful in contact with skin. May be harmful in contact with skin.
H304 H312 H313 H314	Harmful in contact with skin. May be harmful in contact with skin. Causes severe skin burns and eye damage.
H304 H312 H313 H314 H315	Harmful in contact with skin. May be harmful in contact with skin. Causes severe skin burns and eye damage. Causes skin irritation.
H304 H312 H313 H314	Harmful in contact with skin. May be harmful in contact with skin. Causes severe skin burns and eye damage.
H304 H312 H313 H314 H315 H317	Harmful in contact with skin. May be harmful in contact with skin. Causes severe skin burns and eye damage. Causes skin irritation. May cause an allergic skin reaction.

- H333 May be harmful if inhaled.
- May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. H334
- H335 H336
- H361 Suspected of damaging fertility or the unborn child.
- H372
- Causes damage to organs through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life.
- H373 H400
- Very toxic to aquatic life with long lasting effects. H410
- H411 Toxic to aquatic life with long lasting effects.

• Department issuing MSDS:

- Environment protection department.
- · Abbreviations and acronyms:

(continued on page 10)

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3939412

PRODUCT :	ALPOCRYL KLARLACK 5454
	(continued of page 9)
ADR: Acco	rd européen sur le transport des marchandises dangereuses par Route (European Agreement
concerning	the International Carriage of Dangerous Goods by Road)
RID: Rèale	ment international concernant le transport des marchandises dangereuses par chemin de fer
	s Concerning the International Transport of Dangerous Goods by Rail)
	national Maritime Code for Dangerous Goods
IATA: Inter	national Air Transport Association
	national Civil Aviation Organisation
	ally Harmonised System of Classification and Labelling of Chemicals
	uropean Inventory of Existing Commercial Chemical Substances
	uropean List of Notified Chemical Substances
	nical Abstracts Service (division of the American Chemical Society)
	al concentration, 50 percent
	al dose, 50 percent
	pared to the previous version altered.