





RODUCT :	ALPOLAN DUOFINISH 5461	
(continued of page 1) H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H361d Suspected of damaging the unborn child. EUH208 Contains BENZOTRIAZOL DERIVATIVES Index no. 607-176-00-3, methyl methacrylate. May produce an allergic reaction. 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.		
ECTION 03:	Composition/information on ingredients	
• 3.2 Chemical	characterization: Mixtures	
 Description: Mixture of sub 	stances listed below with nonhazardous additions.	
 Dangerous co CAS Number 	mponents:	%
CAS Number 123-86-4	n-butyl acetate	% 25,00- 40,00
. 20 00 7	EC number: 204-658-1	20,00 40,00
	Record number 01-2119485493-29	
	🚸 Flam. Liq. 3 - H226; 🚸 STOT SE 3 -	
	H336	
141-78-6	ethyl acetate	15,00- 25,00
	EC number: 205-500-4	
	Record number 01-2119475103-46	
	🚸 Flam. Liq. 2 - H225; 🔅 Eye Irrit.	
	2 - H319-EUH066, STOT SE 3 - H336	
108-88-3	toluene	5,00- 10,00
	EC number: 203-625-9 Record number 01-2119471310-51	
	 Record number 01-21194/1310-31 Flam. Liq. 2 - H225; Repr. 2 - 	
	H361d, STOT RE 2 - H373, Asp. Tox. 1 - H304;	
	Skin Irrit. 2 - H315, STOT SE 3 - H336	
1330-20-7	xylene	5,00- 10,00
1000-20-1	EC number: 215-535-7	5,00-10,00
	Record number 01-2119488216-32	
	🚸 Flam. Liq. 3 - H226; 🚸 Acute Tox.	
100-41-4	 Flam. Liq. 3 - H226; Acute Tox. 4 - H312, Acute Tox. 4 - H332, Skin Irrit. 2 	1,00- 5,00
100-41-4	 Flam. Liq. 3 - H226; Acute Tox. 4 - H312, Acute Tox. 4 - H332, Skin Irrit. 2 - H315 	1,00- 5,00
100-41-4	 Flam. Liq. 3 - H226; Acute Tox. 4 - H312, Acute Tox. 4 - H332, Skin Irrit. 2 - H315 ethylbenzene EC number: 202-849-4 Record number 01-2119489370-35 	1,00- 5,00
100-41-4	 Flam. Liq. 3 - H226; Acute Tox. 4 - H312, Acute Tox. 4 - H332, Skin Irrit. 2 - H315 ethylbenzene EC number: 202-849-4 Record number 01-2119489370-35 Flam. Liq. 2 - H225; STOT RE 2 - 	1,00- 5,00
100-41-4	 Flam. Liq. 3 - H226; Acute Tox. 4 - H312, Acute Tox. 4 - H332, Skin Irrit. 2 - H315 ethylbenzene EC number: 202-849-4 Record number 01-2119489370-35 	1,00- 5,00
100-41-4	 Flam. Liq. 3 - H226; Acute Tox. 4 - H312, Acute Tox. 4 - H332, Skin Irrit. 2 - H315 ethylbenzene EC number: 202-849-4 Record number 01-2119489370-35 Flam. Liq. 2 - H225; STOT RE 2 - 	1,00- 5,00



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PRODUCT :	ALPOLAN DUOFINISH 5461	
		(continued of page 2)
80-62-6	methyl methacrylate	0,00- 0,50
	EC number: 201-297-1	
	Record number 01-2119452498-28	
	2 - H315, Skin Sens. 1 - H317, STOT SE 3 - H335	
	BENZOTRIAZOL DERIVATIVES Index no. 607-176- 00-3	0,00- 0,50
	EC number: 400-830-7 Record number 01-0000015075-76	
	Chronic 2 - H411	

SECTION 04: First aid measures

- 4.1 Description of first aid measures
- After inhalation:
- Supply fresh air; consult doctor in case of complaints.
- After skin contact:
- Immediately wash with water and soap and rinse thoroughly.
- After eye contact:
- Rinse opened eye for several minutes under running water.
- After swallowing:
 Do not induce vemiting
- 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.

- Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:



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Aboorb wit	(continued of page 3) b liquid binding, material (cond, distantia, paid binders, universal binders, paydust)
	h liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Intaminated material as waste according to item 13.
	equate ventilation.
	ince to other sections
See Section	n 7 for information on safe handling.
	n 8 for information on personal protection equipment.
See Sectio	n 13 for disposal information.
	7: <u>Handling and storage</u>
	<u>nanuling and storage</u>
• Handling:	
• 7.1 Precau	<i>itions for safe handling</i> od ventilation/exhaustion at the workplace.
	rmation of aerosols.
	of emission threshold.
	od interior ventilation, especially at floor level. (Fumes are heavier than air).
	n about fire - and explosion protection:
Keep igniti	on sources away - Do not smoke.
Protect ag	ainst electrostatic charges.
	ions for safe storage, including any incompatibilities
 Storage: 	
	ents to be met by storerooms and receptacles: in the original receptacle.
	n about storage in one common storage facility:
Not require	
Further inf	ormation about storage conditions:
	ainer tightly sealed.
	ol, dry conditions in well sealed receptacles.
	m heat and direct sunlight.
	ic end use(s)
No further	relevant information available.
ECTION 0	8: Exposure controls/personal protection

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

123-86-4	n-butyl acetate		
WEL			
Shor	t-term value	966	mg/m3
		200	ppm
Long	-term value	724	mg/m3
		150	ppm
141-78-6	ethyl acetate		
WEL			
Shor	t-term value	1468	mg/m3
		400	ppm
Long	-term value	734	mg/m3
		200	ppm
108-88-3 WEL	toluene		
Shor	t-term value	384	mg/m3
		100	ppm
Long	-term value	191	mg/m3
		50	ppm
Sk			
			(continued on page 5



				(continued of page 4
1330-20)-7	xylene		· · · ·
WEL				
	Short-ter	rm value	441	mg/m3
			100	ppm
	Long-ter	rm value	220	mg/m3
			50	ppm
	Sk; BMG	θV		
100-41-	4	ethylbenzene		
WEL				
	Short-ter	rm value	552	mg/m3
			125	ppm
	Long-ter	rm value	441	mg/m3
			100	ppm
	Sk			
80-62-6		methyl methacry	late	
WEL	01		440	· -
	Snort-tei	rm value	416	mg/m3
	l ora tor		100 208	ppm ma/m2
	Long-ter	m value	50	mg/m3
 Ingred 	ients with b	biological limit value		ppm
1330-20		xylene		
BMGV		-		
	650 mmo	ol/mol creatinine		
	Medium:	: urine		
	Samplin	g time: post shift		
		er: methyl hippurio	acid	
	onal informa sts valid dur	ation: ring the making wer	e used as basis.	
• 8.2 Ex	posure con	ntrols		
		tive equipment:		
		<i>e and hygienic mea</i> Itionary measures a	<i>sures:</i> re to be adhered to when handling chem	licals.
Keep a	away from f	foodstuffs, beverage	es and feed.	
		ove all soiled and co ses / fumes / aeroso	ntaminated clothing Is.	
Do no	t eat or drin	nk while working.		
			work and before breaks.	on, filtor dovice. In once of inter-in-
or long			ef exposure or low pollution use respirate d respiratory protective device. Suitable	
 Protect prepart 	ction of han ration. Due	to missing tests no	ial has to be impermeable and resistant recommendation to the glove material c election of the glove material on conside	an be given for the product/ the
of diffu • Materi	<i>usion and th</i> al of gloves	he degradation Prote S	ective gloves Impervious gloves	
varies	from manu	afacturer to manufac	loes not only depend on the material, bu turer. As the product is a preparation of ted in advance and has therefore to be c	several substances, the resistance
	kact break t	of glove material through time has to	be found out by the manufacturer of the	protective gloves and has to be
	etermined p		cording to EN 374 part III are not perform	med under practical conditions. ation time, is recommended.



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	(continued of page 5,
SECTION 09: Physical and che	emical 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 10,7000 mbar at 50 °C 55,0000 mbar
Density:	0,9400 g/cm3
Solubility in / Miscibility with	
water:	Not determined.
Viscosity:	
	Not determined.
	at 20 °C 25 - 35 s DIN 4 mm

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

(continued on page 7)



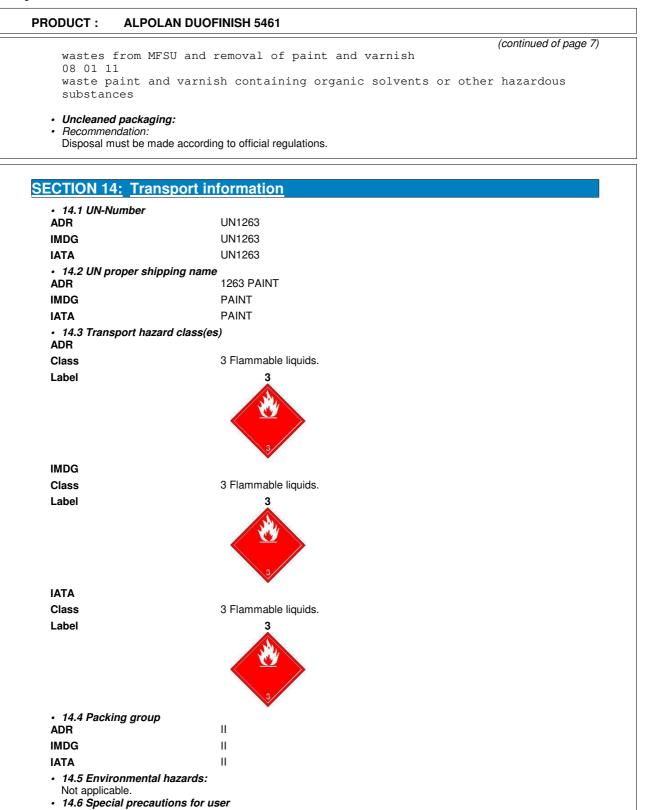
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PRODUCT :	ALPOLAN DUOFINISH 5461
5620 mg/kg (Rabbit) Inh Oral, LD50: mg/kg (rat)	<i>(continued of page 6)</i> 13100 mg/kg (rat) Dermal, LD50: >5000 mg/kg (Rabbit) Inhalative, LC50/4h: >21 mg/l (rat) Oral, LD50: I (Rabbit) Inhalative, LC50/4h: 1600 mg/l (rat) Oral, LD50: 5000 mg/kg (rat) Dermal, LD50: 12124 mg/kg lalative, LC50/4h: 5320 mg/l (mouse) Oral, LD50: 4300 mg/kg (rat) Dermal, LD50: 2000 mg/kg (Rabbit) 3500 mg/kg (rat) Dermal, LD50: 17800 mg/kg (Rabbit) Oral, LD50: 7872 mg/kg (rat) Oral, LD50: 5050 Oral, LD50: 10000 mg/kg (rat) Oral, LD50: 5000 mg/kg (rat)
141-78-6	ethyl acetate
108-88-3	toluene
1330-20-7	xylene
100-41-4	ethylbenzene
80-62-6	methyl methacrylate
868-77-9	2-hydroxyethyl methacrylate
7631-86-9	
8013-07-8 Primary irrit Skin corros No irritant e Serious eye No irritating Pespiratory No sensitisi Additional The produc Guidelines	ion/irritation iffect. e damage/irritation
	Ecological information
 12.2 Persis No further r Behaviour 12.3 Bioacc No further r 12.4 Mobilit No further r 4 Additional General no Water haza Do not allow Danger to c 12.5 Resul PBT: Not applica vPvB: Not applica 12.6 Other No further r 	city: elevant information available. <i>itence and degradability</i> elevant information available. <i>in environmental systems:</i> <i>sumulative potential</i> elevant information available. <i>ecological information:</i> <i>tes:</i> <i>rd</i> class 2 (German Regulation) (Self-assessment): hazardous for water v product to reach ground water, water course or sewage system. Irinking water if even small quantities leak into the ground. <i>ts of PBT and vPvB assessment</i> ble. <i>adverse effects</i> elevant information available.
	: Disposal considerations
• European a	ind swiss waste code
COATINGS	ROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF G (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS NTING INKS
00 01	(continued on page 8)

(continued on page 8)



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• 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

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F-E,S-E

(continued on page 9)

Warning: Flammable liquids. Danger code (Kemler):

EMS Number:



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PRODUCT : ALPOLAN DU	OFINISH 5461	
Not applicable.		(continued of page 8)
 Transport/Additional inform Not applicable. 	nation:	
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 		

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, 48

National regulations:

Classification according to VbF:

• Technical instructions (air):

%
37,74
20,19
20,1

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.
- H336 May cause drowsiness or dizziness.
- H361d Suspected of damaging the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.
- 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)

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2704323

PRODUCT :	ALPOLAN DUOFINISH 5461
	(continued of page 9)
RID: Règl	ement international concernant le transport des marchandises dangereuses par chemin de fer
(Regulatio	ns Concerning the International Transport of Dangerous Goods by Rail)
ÌMDG: Inte	ernational Maritime Code for Dangerous Goods
	rnational Air Transport Association
	rnational Civil Aviation Organisation
	ally Harmonised System of Classification and Labelling of Chemicals
	European Inventory of Existing Commercial Chemical Substances
	European List of Notified Chemical Substances
	nical Abstracts Service (division of the American Chemical Society)
	rdnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids,
Austria)	
,	nal concentration, 50 percent
	nal dose, 50 percent
	istent, Bioaccumulative and Toxic
	Persistent and very Bioaccumulative
	npared to the previous version altered.
Data COI	