

according to 1907/2006/EC, Article 31

1677523

Reviewed on: 30/06/2021

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

• 1.1 Product identifier

- *Trade name:*
ALPOLAN UNIVERSALGRUND 2420-00
- Article number / Safety Data Sheet:
242000
- 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

Eye Irrit. 2 - H319 Causes serious eye irritation.
STOT SE 3 - H336 May cause drowsiness or dizziness.

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
Danger

- Hazard-determining components of labelling:
n-butyl acetate / ethyl acetate / Hydrocarbons, C7-C9, n-alkanes, iso-alkanes, cyclenes / butan-1-ol
- Hazard statements
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.
- Precautionary statements
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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- P233 Keep container tightly closed.
 P240 Ground/bond container and receiving equipment.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water shower.
 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		%
112-07-2	2-butoxyethyl acetate EC number: 203-933-3 ⚠ Acute Tox. 4 - H312, Acute Tox. 4 - H332	1,00- 5,00
141-78-6	ethyl acetate EC number: 205-500-4 ⚠ Flam. Liq. 2 - H225; ⚠ Eye Irrit. 2 - H319-EUH066, STOT SE 3 - H336	10,00- 15,00
64742-49-0	Hydrocarbons, C7-C9, n-alkanes, iso-alkanes, cyclenes EC number: 920-750-0 ⚠ Flam. Liq. 2 - H225; ⚠ Asp. Tox. 1 - H304; ⚠ STOT SE 3 - H336; ⚠ Aquatic Chronic 2 - H411	1,00- 5,00
123-86-4	n-butyl acetate EC number: 204-658-1 ⚠ Flam. Liq. 3 - H226; ⚠ STOT SE 3 - H336	25,00- 40,00
71-36-3	butan-1-ol EC number: 200-751-6 ⚠ Eye Dam. 1 - H318; ⚠ Flam. Liq. 3 - H226; ⚠ Acute Tox. 4 - H302, Skin Irrit. 2 - H315, STOT SE 3 - H335-H336	1,00- 5,00
1330-20-7	xylene EC number: 215-535-7 ⚠ Flam. Liq. 3 - H226; ⚠ Acute Tox. 4 - H312, Acute Tox. 4 - H332, Skin Irrit. 2 - H315	1,00- 5,00
100-41-4	ethylbenzene EC number: 202-849-4	0,50- 1,00

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 Flam. Liq. 2 - H225;  STOT RE 2 -
 H373, Asp. Tox. 1 - H304;  Acute Tox. 4
 - H332

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 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:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
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.

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SECTION 07: Handling and storage

- **Handling:**
 - **7.1 Precautions for safe handling**
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.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
 - **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
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:**

112-07-2	2-butoxyethyl acetate		
WEL			
	Short-term value	332	mg/m ³
		50	ppm
	Long-term value	133	mg/m ³
		20	ppm
	Sk		
141-78-6	ethyl acetate		
WEL			
	Short-term value	400	ppm
	Long-term value	200	ppm
123-86-4	n-butyl acetate		
WEL			
	Short-term value	966	mg/m ³
		200	ppm
	Long-term value	724	mg/m ³
		150	ppm
71-36-3	butan-1-ol		
WEL			
	Short-term value	154	mg/m ³
		50	ppm
	Sk		
1330-20-7	xylene		
WEL			
	Short-term value	441	mg/m ³
		100	ppm
	Long-term value	220	mg/m ³

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	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

- 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.

Do not eat or drink while working.

Be sure to clean skin thoroughly after work and before breaks.

- *Respiratory protection: Suitable respiratory protective device recommended.*

- *Protection of hands: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation 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**Appearance:**

Form:	Liquid
Colour:	According to product specifica
Odour:	Characteristic Characteristic
Odour threshold:	Not determined.

Change in condition

Boiling point/Boiling range:	77 °C
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Flash point:	-1 °C c.c.
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Flammability (solid, gaseous):	Not applicable.
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Ignition temperature:	201 °C
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Decomposition temperature:	Not determined.		
Self-igniting:	Not determined.		
Danger of explosion:	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:	0,9700 g/cm ³		
Solubility in / Miscibility with water:	Not determined.		
Viscosity:	Not determined.		
.	at 20 °C 12 - 16 s DIN 4 mm		
9.2 Other information	No further relevant information available.		

SECTION 10: Stability and reactivity

- *10.1 Reactivity*
- *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:*
- 112-07-2 2-butoxyethyl acetate**
Oral, LD50: 2400 mg/kg (rat) Dermal, LD50: 1580 mg/kg (Rabbit) Oral, LD50: 5620 mg/kg (Rabbit) Inhalative, LC50/4h: 1600 mg/l (rat) Oral, LD50: 13100 mg/kg (rat) Dermal, LD50: >5000 mg/kg (Rabbit) Inhalative, LC50/4h: >21,0 mg/l (rat) Oral, LD50: 790 mg/kg (rat) Dermal, LD50: 3400 mg/kg (Rabbit) Inhalative, LC50/4h: 8000 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)
- 141-78-6 ethyl acetate**
- 123-86-4 n-butyl acetate**
- 71-36-3 butan-1-ol**
- 1330-20-7 xylene**
- 100-41-4 ethylbenzene**
- *Primary irritant effect:*
- on the skin:
No irritant effect.
- on the eye:
No irritating effect.
- *Sensitization:*
No sensitising effects known.

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PRODUCT : ALPOLAN UNIVERSALGRUND 2420-00*(continued of page 6)***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.
- **Ecotoxicological effects:**
- **Remark:**
Harmful to fish
- **Additional ecological information:**
- **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Harmful to aquatic organisms
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
- **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
- **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.

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Label

3



IMDG

Class

3 Flammable liquids.

Label

3



IATA

Class

3 Flammable liquids.

Label

3



- **14.4 Packing group**

ADR

II

IMDG

II

IATA

II

- **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

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

- **National regulations:**

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- *Classification according to VbF:*
AI
- *Technical instructions (air):*
- *Class Share in %*

III	5,00
III	34,78
II	3,52
- *Waterhazard class:*
Water hazard class 1 (Self-assessment): slightly 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.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
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)
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)
VbF: Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria)
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.*