

## according to 1907/2006/EC, Article 31

2683719

Reviewed on: 09/08/2021 Printing date: 09/08/2021

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

- 1.1 Product identifier
- · Trade name:

ALPOTECT PHOSPHATGRUND 5100-00

- Article number / Safety Data Sheet:
- FC5100
- UFI:
- 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. 3 - H226 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.



GHS08

 STOT RE 2 - H373 May cause damage to organs through prolonged or repeated exposure.



- \* Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting
   \* effects.
  - 2.2 Label elements
  - Labelling according to Regulation (EC) No 1272/2008
  - Hazard pictograms









GHS02

GHS07

GHS08

GHS09

(continued on page 2)



## according to 1907/2006/EC, Article 31

2683719

Reviewed on: 09/08/2021 Printing date: 09/08/2021

#### PRODUCT: ALPOTECT PHOSPHATGRUND 5100-00

(continued of page 1)

- Signal wordWarning
  - · Hazard-determining components of labelling:
  - reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number
- average molecular weight <= 700) / xylene
  - Hazard statements
  - H226 Flammable liquid and vapour.
- \* H315 Causes skin irritation.
  - H319 Causes serious eye irritation.
- \* H317 May cause an allergic skin reaction.
- \* H373 May cause damage to organs through prolonged or repeated
- ' exposure
- H411 Toxic to aquatic life with long lasting effects.
- EUH205 Contains epoxy constituents. May produce an allergic reaction.
  - Precautionary statements
    - P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
  - P233 Keep container tightly closed.
- P240 Ground and bond container and receiving equipment.
  - P302+P352 IF ON SKIN: Wash with plenty of water.
  - P403+P235 Store in a well-ventilated place. Keep cool.
  - 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	,	%
*	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	
	100-41-4	ethylbenzene	1,00- 5,00
	100 41 4	EC number: 202-849-4	1,00 0,00
		Record number 01-2119489370-35	
		♦ Flam. Liq. 2 - H225; ♦ STOT RE 2 -	
		H373, Asp. Tox. 1 - H304; 💠 Acute Tox. 4	
		- H332	
*	108-65-6	2-methoxy-1-methylethyl acetate	1,00- 5,00
*		EC number: 203-603-9	
*		Record number 01-2119475791-29	
*		substance with a Community workplace	
*		exposure limit.	
*		🏇 Flam. Liq. 3 - H226	
*	107-98-2	1-methoxy-2-propanol	1,00- 5,00
*		EC number: 203-539-1	
*		Record number 01-2119457435-35	
			(continued on page 3)



## according to 1907/2006/EC, Article 31

2683719

Reviewed on: 09/08/2021 Printing date: 09/08/2021

	PRODUCT:	ALPOTECT PHOSPHATGRUND 5100-00	
*		♦ Flam. Liq. 3 - H226; ♦ STOT SE 3 -	(continued of page 2)
* * * * *	1314-13-2	H336  zinc oxide  EC number: 215-222-5  Record number 01-2119463881-32  Aguatic Acute 1 - H400, Aguatic	0,0015- 0,50
* * * * *	64742-95-6	Chronic 1 - H410  Solvent naphtha (petroleum), light arom.  EC number: 265-199-0  Record number 01-2119455851-35  Asp. Tox. 1 - H304; Flam. Liq. 3	1,00- 5,00
* *	7779-90-0	- H226;	5.00- 10.00
* *		EC number: 231-944-3  Record number 01-2119485044-40  Aquatic Acute 1 - H400, Aquatic	4,22 24,22
* * * * * * * *	25068-38-6	Chronic 1 - H410  reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number average molecular weight <= 700)  EC number: 500-033-5  Record number 01-2119456619-26  ◆ Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1 - H317; ◆ Aquatic  Chronic 2 - H411	10,00- 25,00
*	<ul> <li>Additional is For the work</li> </ul>		

# 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:

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.

CZ

# \*\*\*TEKNOS

#### according to 1907/2006/EC, Article 31

2683719

Reviewed on: 09/08/2021 Printing date: 09/08/2021

PRODUCT: ALPOTECT PHOSPHATGRUND 5100-00

(continued of page 3)

#### 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:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Prevent impact and friction.

- 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.



#### according to 1907/2006/EC, Article 31

2683719

Reviewed on: 09/08/2021 Printing date: 09/08/2021

PRODUCT: ALPOTECT PHOSPHATGRUND 5100-00

(continued of page 4)

#### SECTION 08: Exposure controls/personal protection

· 8.1 Control parameters

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

1330-20-7 xylene

NPK

Short-term value 400 mg/m3 Long-term value 200 mg/m3

D, I, B

100-41-4 ethylbenzene

NPK

Short-term value 500 mg/m3 Long-term value 200 mg/m3

D, B

108-65-6 2-methoxy-1-methylethyl acetate

**NPK** 

 Short-term value
 550
 mg/m3

 Long-term value
 270
 mg/m3

D, I

107-98-2 1-methoxy-2-propanol

NPK

Short-term value 550 mg/m3 Long-term value 270 mg/m3

D

· Ingredients with biological limit values:

1330-20-7 xylene

**BEH** 

1400 mg/g kreatinin\*

Biologického materiálu: moči Doba odběru: Konec směny Ukazatel: Methylhippurové kyseliny

100-41-4 ethylbenzene

BEH

1500 mg/g kreatinin\*

Biologického materiálu: moči Doba odběru: Konec směny Ukazatel: Mandlová kyselina

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.

(continued on page 6)



## according to 1907/2006/EC, Article 31

2683719

Reviewed on: 09/08/2021 Printing date: 09/08/2021

#### PRODUCT: ALPOTECT PHOSPHATGRUND 5100-00

(continued of page 5)

- 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

9.1 Information on basic physical and che Appearance	Jimoui p				
Appearance:					
Form:	Liqui	Ч			
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:	23 °C				
Flammability (solid, gas):	Not a	applicable.			
Ignition temperature:	500 °	,C			
Decomposition temperature:	Not c	determined			
Auto-ignition temperature:	Not c	determined			
Explosive properties:	Not c	determined			
Explosion limits:					
Lower:	1 Vol	l %			
Upper:	7 Vol	l %			
Vapour pressure:	at mbar	20 °C	6,7000 mbar at	20 °C	8,2000
Density:	1,433	30 g/cm3			
Solubility in / Miscibility with					
water:	Not determined.				
Viscosity:					
	at	20 °C	3.500 mPa.s		
	at	23 °C	200 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

(continued on page 7)



#### according to 1907/2006/EC, Article 31

2683719

Reviewed on: 09/08/2021 Printing date: 09/08/2021

#### PRODUCT: ALPOTECT PHOSPHATGRUND 5100-00

(continued of page 6)

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:

#### 1330-20-7 xylene

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: 8532 mg/kg (rat) Inhalative, LC50/4h: 35,7 mg/l (rat) Oral, LD50: 5660 mg/kg (rat) Dermal, LD50: 13000 mg/kg (Rabbit) Inhalative, LC50/4h: 6 mg/l (rat) Oral, LD50: >5000 mg/kg (rat) Dermal, LD50: >3400 mg/kg (Rabbit) Inhalative, LC50/4h: >10,2 mg/l (rat) Oral, LD50: >5000 mg/kg (rat)

100-41-4 ethylbenzene

\* 108-65-6 2-methoxy-1-methylethyl acetate

\* 107-98-2 1-methoxy-2-propanol

\* 1314-13-2 zinc oxide

\* 64742-95-6 Solvent naphtha (petroleum), light arom.

7779-90-0 trizinc bis(orthophosphate)

· 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

#### **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:

Toxic for fish

- · Additional ecological information:
- General notes:

Toxic for 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.

- Also poisonous for fish and plankton in water bodies.
- 12.5 Results of PBT and vPvB assessment
- PBT:

Not applicable.

(continued on page 8)



#### according to 1907/2006/EC, Article 31

2683719

Reviewed on: 09/08/2021 Printing date: 09/08/2021

#### PRODUCT: ALPOTECT PHOSPHATGRUND 5100-00

(continued of page 7)

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.

## **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 (TRIZINC BIS(ORTHOPHOSPHATE))

IATA PAINT14.3 Transport hazard class(es)

ADR

Class 3 Flammable liquids.

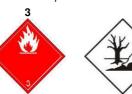
Label



IMDG

Class 3 Flammable liquids.

Label



IATA

Class 3 Flammable liquids.

(continued on page 9)



#### according to 1907/2006/EC, Article 31

2683719

Reviewed on: 09/08/2021 Printing date: 09/08/2021

PRODUCT: ALPOTECT PHOSPHATGRUND 5100-00

(continued of page 8)

Label



14.4 Packing group

ADR III
IMDG III
IATA III

• 14.5 Environmental hazards:

Marine pollutant: Yes

• 14.6 Special precautions for user
Warning: Flammable liquids.

Danger code (Kemler): 30

EMS Number:

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable.

F-E,S-E

· Transport/Additional information:

Not applicable.

Excepted quantities (EQ): E1
Limited quantities (LQ) 5L
Transport category 3
Tunnel restriction code D/E

IMDG

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

• UN "Model Regulation":

UN 1263 PAINT, 3, III, ENVIRONMENTALLY HAZARDOUS

# **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:
- Technical instructions (air):

Class Share in %

II 19,00 III 1,00

· 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

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.

(continued on page 10)

Page: 10 / 10

#### MATERIAL SAFETY DATA SHEET



# according to 1907/2006/EC, Article 31

2683719

Reviewed on: 09/08/2021 Printing date: 09/08/2021

#### PRODUCT: ALPOTECT PHOSPHATGRUND 5100-00

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	11045	Courses alvin invitation	(continued of page 9)
	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.	
*	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.	

# • 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)

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.