

4144403

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.
-  GHS09
- * 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

4144403

Reviewed on: 09/08/2021

Printing date: 09/08/2021

PRODUCT : ALPOTECT PHOSPHATGRUND 5100-00

(continued of page 1)

- * Signal word
Warning
- * 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 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	10,00- 25,00
100-41-4	ethylbenzene EC number: 202-849-4 Record number 01-2119489370-35 ⚠ Flam. Liq. 2 - H225; ⚠ STOT RE 2 - H373, Asp. Tox. 1 - H304; ⚠ Acute Tox. 4 - H332	1,00- 5,00
108-65-6	2-methoxy-1-methylethyl acetate EC number: 203-603-9 Record number 01-2119475791-29 substance with a Community workplace exposure limit. ⚠ Flam. Liq. 3 - H226	1,00- 5,00
107-98-2	1-methoxy-2-propanol EC number: 203-539-1 Record number 01-2119457435-35	1,00- 5,00

(continued on page 3)

according to 1907/2006/EC, Article 31

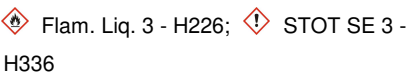
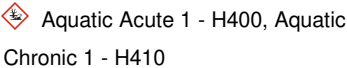
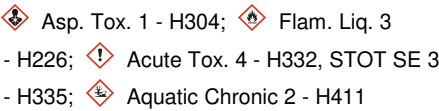
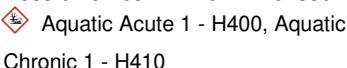
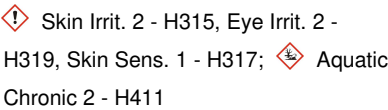
4144403

Reviewed on: 09/08/2021

Printing date: 09/08/2021

PRODUCT : ALPOTECT PHOSPHATGRUND 5100-00

(continued of page 2)

*			
*			
*	1314-13-2	zinc oxide	0,0015- 0,50
*		EC number: 215-222-5	
*		Record number 01-2119463881-32	
*			
*			
*	64742-95-6	Solvent naphtha (petroleum), light arom.	1,00- 5,00
*		EC number: 265-199-0	
*		Record number 01-2119455851-35	
*			
*			
*	7779-90-0	trizinc bis(orthophosphate)	5,00- 10,00
*		EC number: 231-944-3	
*		Record number 01-2119485044-40	
*			
*			
*	25068-38-6	reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number average molecular weight <= 700)	10,00- 25,00
*		EC number: 500-033-5	
*		Record number 01-2119456619-26	
*			
*			
*		• Additional information: For the wording of the listed risk phrases refer to section 16.	

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.

SF

(continued on page 4)

4144403

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.

SF

(continued on page 5)

4144403

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

HTP

Short-term value	440	mg/m3
	100	ppm
Long-term value	220	mg/m3
	50	ppm

iho

100-41-4 ethylbenzene

HTP

Short-term value	880	mg/m3
	200	ppm
Long-term value	220	mg/m3
	50	ppm

iho

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

HTP

Short-term value	550	mg/m3
	100	ppm
Long-term value	270	mg/m3
	50	ppm

iho

- * • 107-98-2 1-methoxy-2-propanol

HTP

Short-term value	560	mg/m3
	150	ppm
Long-term value	370	mg/m3
	100	ppm

iho

- Ingredients with biological limit values:

1330-20-7 xylene

BNV

5,0 µmol/l

virtsan

Työvuoron päätyttyä

metyylihippuurihappo

100-41-4 ethylbenzene

BNV

5,2 mmol/l

virtsan

Työvuoron päätyttyä työviikon tai altistumisjakson loputtua

mantelihappo

- 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.

(continued on page 6)

according to 1907/2006/EC, Article 31

4144403

Reviewed on: 09/08/2021

Printing date: 09/08/2021

PRODUCT : ALPOTECT PHOSPHATGRUND 5100-00

(continued of page 5)

- 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.*
 - * *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*

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

*	Initial boiling point and boiling range:	124 °C
*	Flash point:	23 °C
	Flammability (solid, gas):	Not applicable.
*	Ignition temperature:	500 °C
	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 20 °C 8,2000 mbar
*	Density:	1,4330 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.

SF

(continued on page 7)

4144403

Reviewed on: 09/08/2021

Printing date: 09/08/2021

PRODUCT : ALPOTECT PHOSPHATGRUND 5100-00

(continued of page 6)

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:**
- 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) Oral, LD50: >6800 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.
- **Ecotoxicological effects:**
- **Remark:**
Toxic for fish
- **Additional ecological information:**
- **General notes:**

(continued on page 8)

according to 1907/2006/EC, Article 31

4144403

Reviewed on: 09/08/2021

Printing date: 09/08/2021

PRODUCT : ALPOTECT PHOSPHATGRUND 5100-00

(continued of page 7)

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.

- **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 (TRIZINC BIS(ORTHOPHOSPHATE))

IATA PAINT

- **14.3 Transport hazard class(es)**

ADR

Class 3 Flammable liquids.

Label



IMDG

Class 3 Flammable liquids.

(continued on page 9)

according to 1907/2006/EC, Article 31

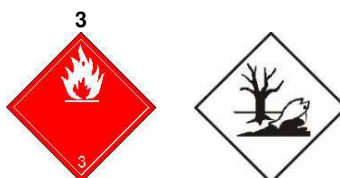
4144403

Reviewed on: 09/08/2021

Printing date: 09/08/2021

PRODUCT : ALPOTECT PHOSPHATGRUND 5100-00

(continued of page 8)

Label**IATA****Class**

3 Flammable liquids.

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:** 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): 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.

SF

(continued on page 10)

4144403

Reviewed on: 09/08/2021

Printing date: 09/08/2021

PRODUCT : ALPOTECT PHOSPHATGRUND 5100-00*(continued of page 9)***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.
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.