

Chemische Fabrik Wülfel	Safety Data Sheet in accordance with Regulation (EC) No 1907/2006	State: 20/04/2020 Author: U.Köhler Version: 1.4
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## SECTION 1: Identification of the mixture and of the company / undertaking

### 1.1. Product identifier

**1.1.1. Trade name:** Polytanol

**1.1.2. Unique Formula Identifier (UFI)**

UFI : MUTV-U0HN-800C-S7NQ

**1.1.3. Active substance:** Calcium phosphide (18% w/w)

EC No: 215-142-0

CAS No: 1305-99-3

CIPAC No: 505

REACH Registration number: The active substance is considered in accordance with Article 15, Section 1 of Regulation (EC) No 1907/2006 as registered.

### 1.2. Relevant identified uses of the mixture and uses advised against

#### 1.2.1. Relevant identified uses

##### 1.2.1.1. Use descriptor category

Life cycle stage PW: Widespread use by professional workers

C: Consumer use (Home garden and allotment)

Sectors of use SU1: Agriculture

Technical function Plant protection product (fumigants for controlling voles and moles)

##### 1.2.1.2. European product categorisation system (EuPCS)

EuPCS codes: PP-PRD-12 (Rodenticides for plant protection)

PP-PRD-15 (Talpicides for plant protection, not for home garden and allotment)

#### 1.2.2. Uses advised against

not known

### 1.3. Details of the supplier of the safety data sheet

Chemische Fabrik Wülfel GmbH & Co. KG

Hildesheimer Straße 305, D-30519 Hanover, Germany

Phone.: 0049 511 98496-0, Fax: 0049 511 98406-40

E.mail address of the person responsible for

Safety Data Sheet: [cfw@wuelfel.de](mailto:cfw@wuelfel.de)

Web: [www.wuelfel.de](http://www.wuelfel.de)

### 1.4. Emergency telephone number

00 49 511 98496-0 (Office hours: Monday - Thursday 8 o'clock a.m. to 4 o'clock p.m.)

or

Poison control center north (Bremen, Hamburg, Lower Saxony, Schleswig-Holstein)

Tel.: 00 49 551 19 24 0 (24h emergency call)

## SECTION 2: Hazards identification

### 2.1 Classification of the mixture

#### 2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP Regulation)

Water-react. 1, H260

Acute Tox. 3, H301

Acute Tox. 1, H330 (see subsection 11.1.1.)

Skin Irrit. 2, H315

Eye Dam. 1, H318

STOT SE 3, RTI, H335

Aquatic Acute 1, H400

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## 2.2. Label elements

### 2.2.1. Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

Hazard-determining substances for labelling: calcium phosphide (tricalcium diphosphide), calcium oxide (calcium monoxide)

#### Hazard pictograms



GHS02



GHS05



GHS06



GHS09

**Signal word: Danger**

#### Hazard statements:

H260: In contact with water releases flammable gases which may ignite spontaneously.

H301: Toxic if swallowed.

H330: Fatal if inhaled. (see subsection 11.1.1.)

H315: Causes skin irritation.

H318: Causes serious eye damage.

H335: May cause respiratory irritation.

H400: Very toxic to aquatic life.

#### Supplemental Hazard information (EU):

EUH029: Contact with water liberates toxic gas.

EUH032: Contact with acids liberates very toxic gas.

EUH401: To avoid risks to human health and the environment, comply with the instructions for use.

#### Precautionary statements

##### Prevention:

P102: Keep out of reach of children.

P223: Keep away from any possible contact with water, because of violent reaction and possible flash fire.

P233: Keep container tightly closed.

P261: Avoid breathing dust/fume/ gas/mist/vapours/spray.

P270: Do not eat, drink or smoke when using this product.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/ face protection.

##### Reaction:

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P335+P334: Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.

P304+P340+P310: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

P362+P364: Take off contaminated clothing and wash before reuse.

P370+P378: In case of fire: Use dry sand or dry powder for extinction.

##### Storage:

P402+P404: Store in a dry place. Store in a closed container.

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**Disposal:**

P501: Dispose of contents/container to the hazardous waste site or the manufacturer.

**2.2.2. Regulation (EU) No 547/2011 (Labelling requirements for plant protection products)**

*Safety phrases according to Annex III*

SP 1: Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

SPo 1: After contact with skin, first remove product with a dry cloth and then wash the skin with plenty of water.

SPo 2: Wash all protective clothing after use.

SPo 4: The container must be opened outdoors and in dry conditions.

SPe 3: To protect aquatic organisms/non-target plants/non-target arthropods/insects respect an unsprayed buffer zone of (distance to be specified) to non-agricultural land/surface water bodies.

SPe 6: To protect birds/wild mammals remove spillages.

**2.3. Other hazards**

See subsections 15.1.1. and 15.1.2.

The mixture does not meet the PBT / vPvB criteria as an inorganic substance according to Annex XIII of the REACH Regulation.

**SECTION 3: Composition/information on ingredients**

**3.1. Substances**

The product does not represent a pure chemical substance.

**3.2. Mixtures**

Component	CAS No	EC No	REACH Registration No	Content w/w %	CLP Regulation	
					Hazard class, hazard category	Hazard statements
calcium phosphide (tricalcium diphosphide) <sup>1)</sup>	1305-99-3	215-142-0	The active substance is considered in accordance with Article 15, paragraph 1 of Regulation (EC) No 1907/2006 (REACH regulation) as registered.	18	Water-react. 1 Acute Tox. 2 Acute Tox. 3 Acute Tox. 1 Eye Dam. 1 Aquatic Acute 1  M-Factor = 100	H260  H300 H311 H330 H318 H400  Suppl. Hazard statement Code(s): EUH029 EUH032
calcium phosphate (tricalcium bis(orthophosphate)) <sup>2)</sup>	7758-87-4	231-840-8	01-2119490077-34	≤ 45	not classified as hazardous according to the CLP Regulation	
calcium oxide (calcium monoxide) <sup>2)</sup>	1305-78-8	215-138-9	01-2119475325-36	≤ 35	Skin Irrit. 2 Eye Dam. 1 STOT SE 3	H315 H318 H335

<sup>1)</sup> Harmonised classification (see Table 3 (Appendix VI) of Regulation No (EC) 1272/2008).

<sup>2)</sup> See the ECHA's classification and labelling inventory (C&L inventory).

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### 3.3. Additional information

The text of H statements, which was not mentioned in this section, see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first-aid measures

#### 4.1.1. General informations

Remove all contaminated clothing.

The victim is to bring to fresh air, lie down comfortably, loosen tight clothing.

#### 4.1.2. In case of eye contact

Rinse widely opened eye for several minutes under running water. Is advisable to use a eyewash. Remove contact lenses, if present and easy to do. Further treatment by an ophthalmologist.

#### 4.1.3. In case of skin contact

Affected parts of the body wash immediately with plenty of soap and water, seek medical attention if necessary.

#### 4.1.4. Following ingestion

Immediately drink sips of water. Inform the doctor. Possibly gastric lavage.

#### 4.1.5. Following inhalation

##### a) Inhalation of low gas volumes:

Fresh air, possibly oxygen respiration or inhalation of a glucocorticoid-containing aerosols (eg Ventolair®). The function of circulation, lungs, liver and kidneys is observed. If in doubt consult a doctor.

##### b) After intense inhalation of dust or gas:

Remove victim to fresh air, apply artificial respiration if necessary. Extreme caution when resuscitation by donation of breath! Necessarily call a doctor to the place of accident!

#### 4.1.6. Self-protection of the First Aider

Avoid contact with substance still present.

### 4.2. Most important symptoms and effects, both acute and delayed

Prolonged latency is expected with phosphine intoxication. Respiratory paralysis can appear in certain cases even after 24 hours.

### 4.3. Indication of any immediate medical attention and special treatment needed

The vital function is to control, if necessary, perform a shock treatment, artificial respiration with respiratory failure and a one extrathoracic heart massage for cardiac arrest or ventricular fibrillation. Administer symptomatic treatment of cramp attacks, high dosage of corticoids if impending lung oedema, electrolyte balance if necessary, possibly hospitalization.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media: dry sand, dry carbon dioxide, Class C fire extinguishers

Unsuitable extinguishing media: water, foam

### 5.2. Special hazards arising from the substance or mixture

In contact with water, the substance can ignite.

### 5.3. Advice for fire-fighters

On contact with water in closed rooms can develop an explosive Hydrogen phosphide/air-mixture (s. also subsection 5.2).

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing, skin and eye contact are through goggles and gloves to prevent and, where appropriate respiratory protection. It is to ensure good ventilation.

### 6.2. Environmental precautions

Polytanol (calcium phosphide) may not be discharged into drains or waterways.

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### 6.3. Methods and material for containment and cleaning up

The contents of leaking packages must be decant to equivalent containers, not tightly close. Granules sweep up and remove mechanically. It should not be stirred up dust. Granules should be filled into suitable containers and these do not close tightly, because contamination with moisture is likely.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Follow the safety instructions in subsections 2.2.1., and 2.2.2., respectively!  
Before using container tightly closed, after removing the substance container tightly closed again.

### 7.2. Conditions for safe storage, including any incompatibilities

The product is always dry and stored only in the original package.  
The product should be stored in remote locations of dwellings, in well ventilated areas, separate from foodstuffs, beverages and animal feedstocks.  
Recommended storage temperature: -5 ° C to +30 ° C.  
Take notice of TRGS 510 "Storage of hazardous substances in non-stationary containers" (in Germany).

#### Note on joint storage:

See Section 7 and Table 7.2 in the TRGS 510 "Storage of hazardous substances in non-stationary containers". (in Germany)

#### Hints for protection against fire and explosion:

Keep away from sources of ignition, do not smoke.  
Storage class: 4.3 (Substances which, in contact with water, emit flammable gases), in Germany

### 7.3. Specific end uses

Plant protection product (Fumigants) – Rodenticide

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 Occupational exposure limits

Substance name	CAS No	value / unit of measurement
Hydrogen phosphide (IUPAC: Phosphane)	7803-51-2	0.1 ml/m <sup>3</sup> (0.1 ppm) 0.14 mg/m <sup>3</sup>
Calcium oxide	1305-78-8	1 mg/m <sup>3</sup> (respirable fraction)

#### 8.1.2. DNEL/PNEC-Values

##### DNEL (systemic)

The data of calcium phosphate and calcium oxide are taken from REACH registration dossiers. The entries for calcium phosphide and hydrogen phosphide are taken from the DAR calcium phosphide.

Route	Substance	Worker	General population
Inhalation (long-term exposition)	Calcium phosphate	4.07 mg/m <sup>3</sup>	3.04 mg/m <sup>3</sup>
	Calcium oxide	no sufficiently accurate data available	
	Calcium phosphide	A DNEL is not available. AOEL (systemic): 0.030 mg/kg bw/d	A DNEL is not available.

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	Hydrogen phosphide	AOEL (systemic): 0.042 µg/l air (0.03 ppm)	A DNEL is not available.
<b>DNEL (local)</b> The information has been taken from the REACH registration dossier of calcium oxide.			
Route	Substance	Worker	General population
Inhalation (long-term exposure)	Calcium oxide	1.0 mg/m <sup>3</sup>	
Inhalation (short-term exposure)		4.0 mg/m <sup>3</sup>	
<b>PNEC</b> The data of calcium phosphate and calcium oxide are taken from REACH registration dossiers.			
Substance	Calcium phosphate	Calcium oxide	
Freshwater	no sufficiently accurate data available	0.37 mg/l	
Seawater		0.24 mg/l	
Sediment (Freshwater)		no sufficiently accurate data available	
Sediment (Seawater)		no sufficiently accurate data available	
Soil		817.4 mg/kg soil dw	

## 8.2. Exposure controls

### 8.2.1 Personal protective equipment

#### 8.2.1.1 Eye / Face protection

Tightly fitting protective goggles required.

#### 8.2.1.2 Respiratory protection:

Short-term, respiratory filter device with gas/ particle filter B2 - P2.

#### 8.2.1.3 Skin protection

Chemical protective gloves, e.g. consisting of PVC or PE (Check for damage before use), Penetration time (value for permeation: Level 6, > 480 min, EN 374)

### 8.2.2 General health and safety measures

Avoid unnecessary contact with the product.

Wash hands after work, change contaminated clothing.

While using do not eat, drink or smoke.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Property	Value / Description
Appearance	red-brown to dark brown granules
Odour	carbide similar
Odour threshold	0.01 – 0.1 ppm (person-specific)
pH (20 °C)	12.6, according to OECD Test Guideline 122, spontaneous decomposition in water, formation of calcium hydroxide
Melting point or melting range	about 1600 °C (DAR Calcium phosphide)
Initial boiling point and boiling range	not known (DAR Calcium phosphide)
Flash point	not applicable, since solid
Evaporation rate	not measurable, since vapor pressure is very low
Flammability (solid)	non-flammable according to EC test method

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	A.10 (DAR Calcium phosphide) Note the information in subsection 9.2.
Upper/lower flammability or explosive limits:	see information in subsection 9.2.
Vapour Pressure (20 °C)	<1.0 * 10 <sup>-5</sup> hPa (EC test method A.4, application of the Antoine equation)
Vapour density	not determinable, since vapor pressure very low
Density:	2.5 g / cm <sup>3</sup> (at 20 ° C), determined according to EC test method A.3
Bulk density:	1.35 g / cm <sup>3</sup> (at 20 ° C), determined according to CIPAC method MT 186
Solubilities	
Solubility in water	spontaneous decomposition in water
Partition coefficient: n-octanol/water (log K <sub>OW</sub> )	not determinable, since spontaneous decomposition in water
Auto-ignition temperature	no auto-ignition up to 400 ° C (EC test method A.16, DAR Calcium phosphide)
Decomposition temperature	not determined, since not relevant for use as bait
Viscosity	not applicable, since stable solid
Explosive properties	not applicable, since stable inorganic solid (insensitive to heat, impact or friction, contains no chemically unstable or high energetic groups)
Oxidising properties	not applicable, all components contain no oxidizing acting molecule groups

#### 9.1.2 Additional relevant properties of substance group

The decomposition with water or even with the humidity as well as acids, which produces very toxic hydrogen phosphide (phosphane) and diphosphane (formerly called diphosphine), the latter ignites spontaneously in contact with atmospheric oxygen.

The lower explosive limit of hydrogen phosphide is 1.79% by volume, the upper explosive limit at 100% vol. The ignition temperature is about 100 ° C.

#### 9.2. Other safety information

none

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Reacts violently with water and acids under heat formation to form hydrogen phosphide (phosphane) and diphosphane. The latter ignites spontaneously in air.

#### 10.2. Chemical stability

In the dry state or in a dry environment, the substance is stable.

#### 10.3. Possibility of hazardous reactions

See sub-section 10.1.

#### 10.4. Conditions to avoid

The contact with water and acids must be avoided.

#### 10.5. Incompatible materials

Water, acids and strong oxidizing agents.

#### 10.6. Hazardous decomposition products

With water and acids are formed hydrogen phosphides, which are highly toxic and extremely flammable. For fires can form phosphorus pentoxide, which reacts with moisture to form phosphoric acid.

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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### 11.1.1 Acute toxicity

##### Acute oral toxicity

LD<sub>50</sub> (oral, rat): 72.32 mg / kg body weight (OECD Guideline 401)

This value is experimentally determined for a product with a content of 17.6% w/w calcium phosphide.

##### Acute dermal toxicity

For the acute dermal toxicity using the read-across-approach (*reference substance: Aluminium phosphide (content: 85%): LD<sub>50</sub> (dermal, rat) = 461.2 mg / kg body weight, see DAR aluminum phosphide, Annex B .6, p.205-206, (2007)*)

is calculated a LD<sub>50</sub> (dermal, rat) of 3423,3 mg/kg body weight for Polytanol® with 18% w/w calcium phosphide.

This value considerably exceeds the classification limit of 2000 mg / kg body weight by the CLP regulation.

This result indicates that a toxic hazard to the user through the product by absorption through the skin is unlikely.

##### Acute inhalative toxicity

From the outgassed hydrogen phosphide:

LC<sub>50</sub> (rat): 0.090 mg / l air in 4 hours (63.5 ppm) according to OECD guideline 403.

Note: Polytanol is only used outdoors by incorporation into the vole and mole holes. The gas is heavier than air and develops over a long period of time (1-2 hours) in the holes.

Hydrogen phosphide is slightly heavier than air (see table).

Gas	Weight per liter at 20 ° C and 1013 hPa
hydrogen phosphide (phosphane, formerly called phosphine)	1.417 g/L
air	1.204 g/L

For this reason, the bulk of the resulting gas remains in the underground vole paths. Only small amounts of hydrogen phosphide released into the ambient air.

This results in a dilution so strong that a danger to the user may be excluded.

Model calculations performed (EU project EUBEES 2: J. Larsen, emission scenario document for biocides used as rodenticides, Danish EPA, 2003) provide a concentration (C<sub>lokal (air)</sub>) of 0,08 mg/m<sup>3</sup> (0,06 ppm) ppm hydrogen phosphide in the ambient air. This value is noticeably below the value of the OEL of 0.14 mg / m<sup>3</sup> (0.1 ppm), see also subsection 8.1.1.

#### 11.1.2 Skin corrosion/irritation

Causes irritation of the skin.

This result derives from the effect of the forming calcium dihydroxide in a humid environment.

(using the analogy principle and the read across-approach according ECHA - Guidance on information requirements and chemical safety assessment, Chapter R.6: QSARs and grouping of chemicals, May 2008).

#### 11.1.3 Eye damage/irritation

Causes serious eye damage.

This result derives from the effect of the forming calcium dihydroxide in a humid environment.

(see subsection 11.1.2).

#### 11.1.4 Sensitisation to the respiratory tract

There are currently no indications to this effect.

#### 11.1.5 Skin sensitisation

There are currently no indications to this effect.

#### 11.1.6 Germ cell mutagenicity

There are currently no indications to this effect.



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#### 11.1.7 Carcinogenicity

There are currently no indications to this effect.

#### 11.1.8 Reproductive toxicity

There are currently no indications to this effect.

#### 11.1.9 Specific target organ toxicity (single exposure)

Dust of the product may irritate the respiratory tract.

After inhalation, local respiratory irritation may be due to the alkaline calcium dihydroxide resulting from the moisture of the mucous membranes, resulting from both inhaled calcium phosphide and calcium oxide dust.

The Scientific Committee on Occupational Exposure Limits (SCOEL) rates calcium dihydroxide (Ca(OH)<sub>2</sub>) as irritating to the respiratory system (SCOEL / SUM / 137, February 2008).

The classification follows the classification of calcium dihydroxide in ECHA's C & L inventory.

#### 11.1.10 Specific target organ toxicity (repeated exposure)

There are currently no indications to this effect.

#### 11.1.11 Aspiration hazard

There are currently no indications to this effect.

### SECTION 12: Ecological information

#### 12.1. Toxicity

##### Acute aquatic toxicity:

Application of the read-across principle: Aluminium phosphide as substance analogous to Calcium phosphide (see DAR Aluminium phosphide, Vol 3, Annex B, Section 5, B.9, November 2007).

Hydrogen phosphide (phosphane) (Fish: *Oncorhynchus mykiss*): 96 h LC<sub>50</sub> = 4.68 µg/l

Aluminium phosphide (Algae: *Selenastrum capricornutum*): 72 h EC<sub>50</sub> = 58 µg/l

#### 12.2. Persistence and degradability

Polytanol developed rapidly in a moist environment Hydrogen phosphide. Phosphates, which are formed in soil by oxidative processes have a fertilizing effect.

#### 12.3. Bioaccumulative potential

Since Polytanol decomposed in an aqueous or moist environment, it has no bioaccumulation potential.

#### 12.4. Mobility in soil

Depends on the water solubility of the phosphates in the soil formed.

#### 12.5. Results of PBT and vPvB assessment

Not applicable to inorganic substances.

#### 12.6. Other adverse effects

Not toxic to bees.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Product:

Residues of the product should not be stored in closed containers or disposed of in the trash cans, because they can form an explosive gas-air mixture. In the containers can build up a lot of pressure.

Do not contaminate ponds, waterways or ditches with chemical or used container.

The sealed container is to be delivered to the nearest collection point for hazardous waste.

##### Packaging:

Empty containers are disabled and conveyed to recycling.

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## SECTION 14 : Transport information

### 14.1. UN number

1360

### 14.2. UN proper shipping name

#### ADR/RID/ADN :

CALCIUMPHOSPHID

#### IMDG-Code

CALCIUM PHOSPHIDE

#### IATA-DGR

Calcium phosphide

### 14.3. Transport hazard class(es)

4.3 (Substances which, in contact with water, emit flammable gases) and

6.1 (Toxic substances)



### 14.4. Packing group

I (Substances presenting high danger)

### 14.5. Environmental hazards

#### Environmentally hazardous substance:

ADR/RID/ADN/IMDG-Code/IATA-DGR: yes (see subsections 21.1., and 12.1)



**Marine Pollutant:** yes (see sub-sections 2.1.1., 12.1. and Annex III of MARPOL)

### 14.6. Special precautions for user

See Sections 6 – 8, 10 and 12

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Does not apply, it is a solid product and is not a bulk good.

### 14.8. Additional information

ADR Tunnel restriction code (E)

Delivery by post: banned

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1 EU regulations

##### Safety Data Sheet:

Regulation (EC) No 1907/2006 (REACH), Annex II (SDS) is amended by Annex of Regulation (EU) 2015/830.

##### Classification and labelling:

Regulation (EC) No 1272/2008 (CLP (EU-GHS))

##### Plant Protection:

Regulation (EC) No 1107/2009

Regulation (EU) No 540/2011, as amended by Regulation (EU) No 541/2011

(The active substance calcium phosphide is registered under No. 261 in the table of Part A)

##### Seveso III

Directive 2012/18/EU

H2 ACUTE TOXIC, Category 2 ; E1 Hazardous to the Aquatic Environment in Category Acute1;

O2 Substances and mixtures which in contact with water emit flammable gases, Category 1;

O3 Substances or mixtures with hazard statement EUH029

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### 15.1.2 Basic national regulations (Germany)

Plant Protection Act (PflSchG)

Law to protect against hazardous substances (Chemicals Act (ChemG))

Regulation to protect against hazardous materials (GefStoffV)

Regulation banning the marketing of hazardous substances (ChemVerbotsV)

Ordinance on facilities for handling substances that are hazardous to water (AwSV) of 18 April 2017.

Water hazard class (WGK) 3 (highly hazardous to water), see AwSV, Annex 1, subsections 4.2 and 4.4.

The product is registered according to §16e Chemicals Act (ChemG) at the Federal Institute for Risk Assessment (BfR).

The BfR product number is 7429335.

### 15.2. Chemical Safety Assessment:

DAR Calcium phosphide (November 2006, August 2008).

This document meets all the requirements that are set out in Annex I of the REACH Regulation for the Chemical Safety Report (CSR). The authorized active substance calcium phosphide is identical to the commercial product Polytanol.

## SECTION 16: Other information

### 16.1. Indication of changes to version 1.3

Subsection 1.1. - Extension with a section point and specification of the UFI

Subsection 1.2. - Extension with a section point and specification of the EuPCS code

Subsection 16.3. - Actualization

### 16.2. Codes of hazard classes and hazard statements

#### a) hazard classes and categories in subsection 2.1.1.

Water-react. 1 - Substance or mixture which in contact with water emits flammable gas, Category 1

Acute Tox. 1 - Acute toxicity, Category 1

Acute Tox. 3 - Acute toxicity, Category 3

Skin Irrit. 2 - Skin irritation, Category 2

Eye Dam. 1 - Serious eye damage, Category 1

STOT SE 3, RTI - Specific target organ toxicity - single exposure, Category 3, Respiratory Tract Inhalation

Aquatic Acute 1 - Hazardous to the aquatic environment, acute, Category 1

#### b) Hazard statements under Regulation (EC) No 1272/2008, the text of which was not specified in section 3

H260: In contact with water releases flammable gases which may ignite spontaneously.

H300: Fatal if swallowed.

H311: Toxic in contact with skin.

H330: Fatal if inhaled.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H335: May cause respiratory irritation.

H400: Very toxic to aquatic life.

EUH029: Contact with water liberates toxic gas.

EUH032: Contact with acids liberates very toxic gas.

### 16.3. Literature and sources

#### Directives and Regulations

Regulation (EC) No 1107/2009, was last amended by Regulation (EU) 2019/1381

Regulation (EG) No 1907/2006 (REACH), was last amended by Regulation (EU) 2020/171

CLP (EU-GHS)-Verordnung (EG) Nr. 1272/2008, was last amended by Regulation (EU) 2020/217

Regulation (EU) No 547/2011, was last amended by Regulation (EU) No 519/2013

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Directive 2012/18/EU (Seveso III)

**Calcium phosphide**

Conclusion regarding the peer review of the pesticide risk assessment of the active substance calcium phosphide, EFSA Scientific Report (2008) 183, 1-59  
(<http://www.efsa.europa.eu/en/efsajournal/doc/183r.pdf>)

**Aluminium phosphide**

Conclusion regarding the peer review of the pesticide risk assessment of the active substance aluminium phosphide, EFSA Scientific Report (2008) 182, 1-78  
(<http://www.efsa.europa.eu/en/scdocs/doc/182r.pdf>)

**REACH Registration Dossier:**

Calcium phosphate (REACH Registration Number: 01-2119490077-34)

Calcium oxide (REACH Registration Number: 01-2119475325-36)

**16.4. Methods in accordance with Chapter 2, Article 9, of Regulation (EC) No 1272/2008 to assess the information that has been used for the purpose of classification**

Physical hazards: evaluation of test data (water reactivity)

Health and environmental hazards: evaluation of animal testing and application of "read across" principle

**16.5. Abbreviations and acronyms**

ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route - European arrangements about the international transport of dangerous goods on the streets.
AOEL	Acceptable Operator Exposure Level
bw	body weight
CAS	Chemical Abstracts Service
CIPAC	Collaborative International Pesticides Analytical Council
CLP	Classification, Labelling, Packaging
d	day
DAR	Draft Assessment Report
DNEL	Derived No Effect Level
dw	dry weight
ECHA	European Chemicals Agency
EFSA	European Food Safety Authority
EC	European Community
EN	European Standards
EU	European Union
GHS	Globally Harmonized System of Classification, Labelling and Packaging of Chemicals
IATA-DGR	International Air Transport Association-Dangerous Goods Regulation
IBC-Code	International code for the construction and the equipment of ships for the transport of dangerous goods as bulk goods.
IMDG-Code	International Maritime Code for Dangerous Goods
IUPAC	International Union of Pure and Applied Chemistry
LC	Lethal Concentration
LD	Lethal Doses
MARPOL	Maritime Pollution Convention
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, Bioaccumulative, Toxic
PE	Polyethylene
PVC	Polyvinyl chloride

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REACH	Regulation, Evaluation and Authorization of Chemicals
RID	Règlement concernant le transport International ferroviaire de marchandises Dangereuses - Regulation for the international transport of dangerous goods in the rail transport.
RTI	Respiratory Tract Inhalation
TRGS	Technical Rules for Hazardous Substances
UN	United Nations
vPvB	very persistent and very bioaccumulative
<b>16.5 Further information</b>	
This information is based on our present knowledge, they do not constitute an assurance of product properties and establishes no contract legal rights.	
Polytanol is approved by the Federal Office of Consumer Protection and Food Safety under the number 5278-00/00 (professional application), 5278-00/01 (application home garden und allotment) until 31.08.2020 as plant protection product.	