

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 13.11.2025

Version number 2 (replaces version 1)

Revision: 13.11.2025

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** Phostoxin Tablet
- **Authorisation No.:** 04685
- **UFI:** DHM7-0J6F-E10N-AT6Q
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use** Certified, trained professional users
- **Application of the substance / the mixture** Plant protection product
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Detia Freyberg GmbH
Dr.Werner-Freyberg-Str. 11
D-69514 Laudenbach
Germany
- **Further information obtainable from:**
Detia Freyberg GmbH - Regulatory Affairs
telephone: +49-6201-708-0
e-mail: sicherheitsdatenblaetter@dd-group.com
- **1.4 Emergency telephone number:**
Members of Public: +353 (01) 809 2166. (8.00 a.m. to 10.00 p.m. 7 days a week)/ Healthcare Professionals: +353 (01) 809 2566 (24 hour service)

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008 [CLP]**



GHS02 flame

Water-react. 1 H260 In contact with water releases flammable gases which may ignite spontaneously.



GHS06 skull and crossbones

Acute Tox. 2 H300 Fatal if swallowed.
Acute Tox. 3 H311 Toxic in contact with skin.
Acute Tox. 2 H330 Fatal if inhaled.



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

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GHS07

Skin Irrit. 2 H315 Causes skin irritation.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008 [CLP]**

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



GHS02 GHS05 GHS06 GHS09

· **Signal word** Danger

· **Hazard-determining components of labelling:**

aluminium phosphide
ammonium carbamate

· **Hazard statements**

H260 In contact with water releases flammable gases which may ignite spontaneously.
H300+H330 Fatal if swallowed or if inhaled.
H311 Toxic in contact with skin.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.

· **Precautionary statements**

Keep away from any possible contact with water, because of violent reaction and possible flash fire.
P223 Do not allow contact with water.
P232 Protect from moisture.
P234 Keep only in original packaging.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P321 Specific treatment (see application on this label).
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P335 Brush off loose particles from skin.
P370+P378 In case of fire: Use dry sand or powder then use CO₂ to extinguish.
P402+P404 Store in a dry place. Store in a closed container.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:**

EUH029 Contact with water liberates toxic gas.
EUH032 Contact with acids liberates very toxic gas.

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- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Aluminum phosphide meets the T criterion, but not the P or B criterion.
- **vPvB:**
This mixture does not contain any substances that are considered to be very persistent or very bioaccumulative (vPvB).
- **Determination of endocrine-disrupting properties**
Contains no endocrine disruptor (ED) in a concentration of $\geq 0.1\%$.

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 20859-73-8 EINECS: 244-088-0	aluminium phosphide ----- ☠ Water-react. 1, H260; ☠ Acute Tox. 2, H300; Acute Tox. 3, H311; Acute Tox. 1, H330; ☠ Aquatic Acute 1, H400 (M=100), EUH029, EUH032	56.0%
CAS: 1111-78-0 EINECS: 214-185-2	ammonium carbamate ----- ☠ Eye Dam. 1, H318; ☠ Acute Tox. 4, H302	21.0%

- **Additional information:**
During application, the reaction product hydrogen phosphide (CAS No.: 7803-51-2; EC No.: 232-260-8; EC Index No.: 015-181-00-1) is formed.
During application, the reaction product ammonia (CAS No.: 7664-41-7; EC No.: 231-635-3; EC Index No.: 007-001-00-5) is formed.
For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:**
Avoid any unnecessary contact with the product.
In the event of an accident or if you feel unwell, seek medical advice immediately. Tell the doctor the cause is hydrogen phosphide and show the safety data sheet or label if possible.
Use prescribed personal protective equipment. Do not remove respiratory protection until contaminated clothing has been removed. Immediately remove clothing contaminated with product to a well-ventilated area and then remove.
Do not leave affected persons unattended and take them to fresh air or out of the danger zone.
Allow contaminated clothing to ventilate well before washing and do not store in closed rooms without ventilation!
- **After inhalation:**
Immediate removal from the danger area!
A supply of fresh air or oxygen must be provided.
Seek immediate medical advice.
In the event of irregular breathing or respiratory arrest, only give artificial respiration with the aid of a resuscitation bag. First aiders without a resuscitation bag: for your own protection, only perform chest compressions.

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- **After skin contact:**
Brush off loose particles from the skin. Wash skin with plenty of soap and water. If skin irritation or rash occurs: Get medical advice / attention.
- **After eye contact:**
Rinse eyes under running water for several minutes with the eyelid wide open. Remove any contact lenses that may be present and continue rinsing.
Consult a doctor for control and if eye irritation persists.
- **After swallowing:**
Do not induce vomiting; call for medical help immediately.
Bring vomit that has already been vomited by the affected person outside.
- **4.2 Most important symptoms and effects, both acute and delayed**
Breathing difficulty
Headache
Dizziness
Gastric or intestinal disorders
Nausea
- **4.3 Indication of any immediate medical attention and special treatment needed**
Symptomatic treatment. Symptoms may be delayed after exposure (up to 48 hours later). Avoid acidosis and prevent pulmonary edema.
No antidote available.
Inhalative treatment on glucocorticoid basis to prevent pulmonary edema.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
 - **Suitable extinguishing agents:**
Use fire extinguishing methods suitable to surrounding conditions.
Carbon dioxide
Dry sand
Fire-extinguishing powder
Use a fire blanket for smaller fires.
 - **For safety reasons unsuitable extinguishing agents:**
Water
Foam
- **5.2 Special hazards arising from the substance or mixture**
Contact with water produces highly flammable and very toxic gases. Phosphine fires develop phosphoric acid (H₃PO₄).
- **5.3 Advice for firefighters**
Do not attempt to work without suitable protective equipment. Do not inhale explosion and combustion gases. Adapt extinguishing measures to the environment. Fight fire with usual precautions from an appropriate distance.
- **Protective equipment:** Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Observe the information on exposure limitation and put on personal protective equipment (Section 8).

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Ensure adequate ventilation.
Have measuring devices and first aid kit ready.
Keep unprotected persons not working in the area away from the danger area. The danger area is to be made clear by warning signs.
Keep away from ignition sources.

· 6.2 Environmental precautions:

Prevent the product from entering the sewage system or surface and ground water.
Inform respective authorities in case of seepage into water course or sewage system.

· 6.3 Methods and material for containment and cleaning up:

Pick up mechanically.
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents

· 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 7: Handling and storage

· 7.1 Precautions for safe handling

Use of the product only by knowledgeable and trained persons.
Avoid any contact of the product with water!
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Do not breathe the product dust.

Advice on general hygiene in the workplace:

Remove soiled clothing immediately. Wash hands after use. Do not eat, drink or smoke in areas where work is being carried out. Remove contaminated clothing and protective equipment before entering areas where food is eaten. Do not store food and drink together with chemicals. Do not inhale gas/vapour/aerosol. Avoid contact with eyes and skin.

· Information about fire - and explosion protection:

Avoid dust formation.
If the product is handled openly, devices with local exhaust ventilation must be used.
Protect against electrostatic charges.
Keep away from sources of ignition. Do not smoke!

· 7.2 Conditions for safe storage, including any incompatibilities**· Storage:****· Requirements to be met by storerooms and receptacles:**

Store only in the unopened original container.
Keep container tightly closed and store in a cool, well-ventilated place.
Protect from heat.
Keep inaccessible to non-operational and non-specialist persons.

· Information about storage in one common storage facility:

Do not store together with acids, water, oxidizing substances and self-igniting substances.
Do not store food and drinks with chemicals. Do not use containers for chemicals that are normally intended for holding food. Keep away from food, drink and animal feed.

· Further information about storage conditions: None.

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- **Storage class:**
4.3 (hazardous substances that form flammable gases in contact with water)
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**
During application, substances are produced whose occupational exposure limit values are listed below under the heading "Additional exposure limit values for possible processing hazards:".

CAS: 20859-73-8 aluminium phosphide (56.0%)	
OEL	Long-term value: 2 mg/m ³
CAS: 8002-74-2 Paraffin waxes and Hydrocarbon waxes (3.0%)	
OEL	Short-term value: 6 mg/m ³ Long-term value: 2 mg/m ³
CAS: 14807-96-6 Talc (Mg3H2(SiO3)4) (2.8%)	
OEL	Long-term value: 10* 0.8** mg/m ³ **total inhalable **respirable dust

- **Regulatory information**

Additional Occupational Exposure Limit Values for possible hazards during processing:	
CAS: 7803-51-2 phosphine	
OEL	Short-term value: 0.28 mg/m ³ , 0.2 ppm Long-term value: 0.14 mg/m ³ , 0.1 ppm IOELV

- **Additional information:**
The lists valid during the making were used as basis.
Electronic measuring devices are recommended for monitoring the concentration of hydrogen phosphide in the workplace.

- **8.2 Exposure controls**

- **Individual protection measures, such as personal protective equipment**

- **General protective and hygienic measures:**

Technical and organizational protective measures are to be used with preference (personal protective equipment must not be a permanent measure).
Wash hands before breaks and at the end of work.
Immediately knock out any clothing soiled by the product in a well-ventilated place and then remove it. Only remove respiratory protection after removing contaminated clothing.
Store protective equipment separately, check it regularly, clean it and replace it if necessary. Before washing, let contaminated clothing ventilate well and do not store in closed rooms without ventilation!
To avoid risks to human health & the environment comply with the terms of this approval in conjunction with the directions for use on the product label.
Wear suitable protective clothing (coveralls).
The product container/flask must only be opened outdoor and in dry conditions. Do not allow tablets or their spent residues to come in contact with food or feed. Place warning notices at the fumigation area and all points of access to the risk area. A 5m risk area must be established around the treated containers.
Post application no unprotected person should enter the treated area until the PH3 concentration in the air is below 0.01 ppm.

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Keep away from foodstuffs, beverages and feed.

Avoid contact with the skin.

TO BE USED ONLY BY AN OPERATOR INSTRUCTED OR TRAINED IN THE USE OF ALUMINIUM PHOSPHIDE and familiar with the precautionary measures to be observed.

Avoid contact with the eyes and skin.

· **Respiratory protection:**



Wear suitable respiratory protective equipment when applying the product and re-entering treated areas before the phosphine gas air concentration is below 0.01 ppm. Use at least half mask or full face-piece respirators to at least EN140 and EN 136 standard respectively, in combination with filter(s) to at least EN14387B2P3, or equivalent.

· **Hand protection**



Suitable chemical-resistant protective gloves (EN ISO 374-1), even for prolonged, direct contact.

The information is based on our own tests, literature references and information from glove manufacturers or is derived by analogy from similar substances. It should be noted that the daily usage time of a chemical protective glove in practice can be significantly shorter than the permeation time determined by tests due to the many influencing factors (e.g. temperature). Due to the large variety of types, the manufacturer's instructions for use must be observed.

· **Material of gloves**

Nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm), etc.

· **Penetration time of glove material**

Protection index 6, corresponding to > 480 minutes permeation time according to EN ISO 374-1

· **Eye/face protection**

In the event of contact with the product: Wear tightly fitting protective goggles / full protective mask.

· **Body protection:**



For preparatory and follow-up work: long-sleeved work clothes and safety shoes
If the gas concentration is unknown or increased: Suitable chemical protective suit

· **Thermal hazards** No further information available.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Physical state**

Solid

· **Colour:**

Grey

· **Odour:**

Garlic-like

· **Odour threshold:**

Not applicable as substance is toxic to inhalation.

· **Melting point/freezing point:**

Undetermined.

· **Boiling point or initial boiling point and boiling range**

Undetermined.

· **Flammability**

Reacts with water to form highly flammable gases.

· **Lower and upper explosion limit**

· **Lower:**

Not determined.

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· Upper:	Not determined.
· Flash point:	Not applicable.
· Decomposition temperature:	Not determined.
· pH	Not applicable.
· Viscosity:	
· Kinematic viscosity	Not applicable.
· Dynamic:	Not applicable.
· Solubility	
· water:	Not applicable (reaction with water leads to decomposition).
· Partition coefficient n-octanol/water (log value)	Not applicable (reaction with water leads to decomposition).
· Vapour pressure:	Not applicable.
· Density and/or relative density	
· Density:	1,791-1,857 g/cm ³
· Relative density	1,87864-2,01470
· Vapour density	Not applicable.
· Particle characteristics	See section 3.

· 9.2 Other information	
· Appearance:	
· Form:	Solid
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· Solvent content:	
· Solids content:	100.0 %
· Change in condition	
· Evaporation rate	Not applicable.

· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	In contact with water releases flammable gases which may ignite spontaneously.
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void

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· **Desensitised explosives**

Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** Reactive with water and acids.
- **10.2 Chemical stability** The product is stable with normal storage and handling.
- **Thermal decomposition / conditions to be avoided:** Release of ammonia and carbon dioxide
- **10.3 Possibility of hazardous reactions**
Contact with water releases flammable gases.
Contact with water releases toxic gases.
- **10.4 Conditions to avoid**
Protect from moisture.
Avoid high temperatures.
Protect from contact with acids.
- **10.5 Incompatible materials:**
Protect from moisture.
Protect from contact with acids.
- **10.6 Hazardous decomposition products:**
Ammonia
Hydrogen phosphide
Contact with water releases flammable gases.
Contact with water releases toxic gases.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity**
Fatal if swallowed or if inhaled.
Toxic in contact with skin.

· **LD/LC50 values:**

ATE (Acute Toxicity Estimates)

Oral	LD50	>15.5 mg/kg (Rat (Rattus spec.))
Dermal	LD50	821–1,607 mg/kg (Rat (Rattus spec.))
Inhalative	LC50/4 h	0.0857 mg/l (Rat (Rattus spec.))

CAS: 20859-73-8 aluminium phosphide

Oral	LD50	8.7 mg/kg (Rat (Rattus spec.))
Dermal	LD50	460–900 mg/kg (Rat (Rattus spec.))
Inhalative	LC50/4 h	0.048 mg/l (Rat (Rattus spec.)) (phosphine generated from aluminium phosphide)
	LC50/4 h	0.015 mg/l (Rat (Rattus spec.)) 11 ppm phosphine (equivalent to 0.015 mg phosphine/L air or 2.8 mg/kg bw))

CAS: 1111-78-0 ammonium carbamate

Oral	LD50	>681 mg/kg (Rat (Rattus spec.))
Dermal	LD50	>2,000 mg/kg (Rat (Rattus spec.))
Inhalative	LC50/4 h	6.6 mg/l (Rat (Rattus spec.))

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- **Primary irritant effect:**
- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

CAS: 20859-73-8 aluminium phosphide

ErC50/ 48h	1.44 mg/l (algae)
LC50/ 96h	0.00798 mg/l (Rainbow trout (<i>Oncorhynchus mykiss</i>))
EC50/ 24h	0.00018 mg/l (<i>Daphnia magna</i>)

- **12.2 Persistence and degradability** Decomposes in contact with water.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **Bioconcentration factor (BCF)**
Phosphine (calculated on the basis of $\log POW = 0.9$):
BCF fish = 1.16 L / kg
BCF earthworm = 0.94 L / kg
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Aluminum phosphide meets the T criterion, but not the P or B criterion.
- **vPvB:**
This mixture does not contain any substances that are considered to be very persistent or very bioaccumulative (vPvB).
- **12.6 Endocrine disrupting properties**
The product does not contain any substance above the legal limits that has been included in the list drawn up in accordance with Article 59(1) of Regulation (EC) No 1907/2006 due to endocrine disrupting properties or that has endocrine disrupting or endocrine disrupting properties in accordance with Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.
- **12.7 Other adverse effects**
- **Remark:** Very toxic for fish

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- **Additional ecological information:**
- **General notes:**

Very 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.
 Must not reach sewage water or drainage ditch undiluted or unneutralised.
 Danger to drinking water if even small quantities leak into the ground.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**

Waste from fumigant residues must be disposed of in accordance with the legal waste regulations / provisions.
 The product, not outgassed product residues and uncleaned packaging are to be disposed of as hazardous waste subject to verification.
 Proper disposal according to Directive 2008/98/EC on waste and hazardous waste.

- **European waste catalogue**

The disposal of the contents / container is to be carried out in consultation with the regional disposal company in accordance with official regulations according to the waste code number in accordance with the European waste catalog. Waste codes are not related to the product but to the application.
 Product/ungassed product residues:
 061301* - inorganic pesticides, wood preservatives and other biocides.
 020108* - waste agricultural chemicals containing dangerous substances
 160507* - used inorganic chemicals consisting of or containing dangerous substances
 Outgassed inactivated product residues according to TRGS 512, section 9, sentence 5:
 060316 - metal oxides with the exception of those falling under 060315

HP3	Flammable
HP4	Irritant - skin irritation and eye damage
HP6	Acute Toxicity
HP12	Release of an acute toxic gas
HP14	Ecotoxic

- **Uncleaned packaging:**

150110* Packaging containing residues of or contaminated by dangerous substances

- **Recommendation:**

cleaned empty packaging:

Disposal is to be carried out in consultation with the regional disposal company in accordance with the official regulations pursuant to the AVV Ordinance.

SECTION 14: Transport information

- **14.1 UN number or ID number**
- **ADR, IMDG, IATA**

UN1397

- **14.2 UN proper shipping name**
- **ADR**

UN1397 ALUMINIUM PHOSPHIDE,
 ENVIRONMENTALLY HAZARDOUS
 ALUMINIUM PHOSPHIDE, MARINE POLLUTANT
 ALUMINIUM PHOSPHIDE

- **IMDG**
- **IATA**

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· **14.3 Transport hazard class(es)**

· **ADR**



· **Class**

4.3 Substances which, in contact with water, emit flammable gases.

· **Label**

4.3+6.1

· **IMDG**



· **Class**

4.3 Substances which, in contact with water, emit flammable gases.

· **Label**

4.3/6.1

· **IATA**



· **Class**

4.3 Substances which, in contact with water, emit flammable gases.

· **Label**

4.3 (6.1)

· **14.4 Packing group**

· **ADR, IMDG, IATA**

I

· **14.5 Environmental hazards:**

· **Marine pollutant:**

Yes

· **Special marking (ADR):**

Symbol (fish and tree)
Symbol (fish and tree)

· **14.6 Special precautions for user**

Warning: Substances which, in contact with water, emit flammable gases.

· **Hazard identification number (Kemler code):** -

· **EMS Number:**

F-G,S-N

· **14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

· **Transport/Additional information:**

· **ADR**

· **Limited quantities (LQ)**

0

· **Excepted quantities (EQ)**

Code: E0

Not permitted as Excepted Quantity

· **Transport category**

1

· **Tunnel restriction code**

E

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· IMDG	
· Limited quantities (LQ)	0
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· UN "Model Regulation":	UN 1397 ALUMINIUM PHOSPHIDE, 4.3 (6.1), I, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I**

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

· **Seveso category**

H2 ACUTE TOXIC

O3 Substances or mixtures with hazard statement EUH029

E1 Hazardous to the Aquatic Environment

· **Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t**

· **Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t**

· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 40

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

· **Regulation (EC) No 273/2004 on drug precursors**

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

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Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

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- **National regulations:**
- **Information about limitation of use:**
Employment restrictions concerning juveniles must be observed.
- **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. This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

· **Relevant phrases**

- H260 In contact with water releases flammable gases which may ignite spontaneously.
- H300 Fatal if swallowed.
- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H318 Causes serious eye damage.
- H330 Fatal if inhaled.
- H400 Very toxic to aquatic life.
- EUH029 Contact with water liberates toxic gas.
- EUH032 Contact with acids liberates very toxic gas.

· **Classification according to Regulation (EC) No 1272/2008**

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

Substances and mixtures which in contact with water emit flammable gases	On basis of test data
Acute toxicity - oral Acute toxicity - dermal Acute toxicity - inhalation Skin corrosion/irritation Serious eye damage/irritation Hazardous to the aquatic environment - short-term (acute) aquatic hazard	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

- **Department issuing SDS:** Regulatory Affairs
- **Contact:** sicherheitsdatenblaetter@dd-group.com
- **Date of previous version:** 10.11.2025
- **Version number of previous version:** 1
- **Abbreviations and acronyms:**
 UFI: Unique Formular Identifier
 ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 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
 ATE: Acute toxicity estimate values
 Water-react. 1: Substances and mixtures which in contact with water emit flammable gases – Category 1
 Acute Tox. 2: Acute toxicity – Category 2
 Acute Tox. 4: Acute toxicity – Category 4

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Safety data sheet
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Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 1: Acute toxicity – Category 1

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

· * **Data compared to the previous version altered.**

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