

**Safety Data Sheet (SDS)**

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Printing date 04/02/2015

Reviewed on 9/23/2021

1 Identification

- **Product identifier**
- **Trade name:** *Spent Aluminum Phosphide: Phostoxin® Tablets, Pellets, Tablet Prepac, Prepac Ropes, DetiaPhos® Tablets and Pellets*
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Product description** Spent aluminum phosphide for disposal.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
DEGESCH America, Inc.
153 Triangle Dr.
P.O. Box 116
Weyers Cave, VA 24486 USA
Telephone: (540) 234-9281 / 800-330-2525
Telefax: (540) 234-8225
www.degeschamerica.com
degesch@degeschamerica.com
- **Emergency telephone number:**
For human or animal emergencies: 1-800-308-4856 (Rocky Mountain Poison and Drug Center)
For all other chemical emergencies: 1-800-424-9300 (Chemtrec)
Emergency and Information - DEGESCH America, Inc.: (540) 234-9281 / 800-330-2525

2 Hazard(s) identification

- **Classification of the substance or mixture:** *Note the following hazard identification only applies to partially spent dust which contains unreacted aluminum phosphide.*



GHS06 Skull and crossbones

Acute Tox. 2 H300 Fatal if swallowed.
Acute Tox. 2 H330 Fatal if inhaled.



GHS09 Environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

- **Label elements**
- **GHS label elements**
The substance is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS06 GHS09

- **Signal word** Danger
- **Hazard-determining components of labeling:**
Aluminum phosphide
- **Hazard statements**
Fatal if swallowed or if inhaled.
Very toxic to aquatic life.

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Precautionary statements

Do not breathe dust/fumes/gas/mist/vapors/spray.
 Wear respiratory protection.
 Avoid release to the environment.
 Wash thoroughly after handling.
 Do not eat, drink or smoke when handling this product spent dust.
 If swallowed: Immediately call a poison center/doctor.
 Remove/Take off immediately all contaminated clothing.
 Specific treatment is urgent (see supplementary first aid instructions on this Safety Data Sheet).
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 In case of fire: Use for extinction: CO₂, sand, extinguishing powder.
 Collect spillage.
 Store locked up.
 Store in a well-ventilated place.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:

NFPA ratings (scale 0 - 4)



The substance demonstrates unusual reactivity with water.

HMIS-ratings (scale 0 - 4)

HEALTH	4	Health = 4
FIRE	1	Fire = 1
REACTIVITY	0	Reactivity = 0

Other hazards None known

* 3 Composition/information on ingredients

Chemical characterization: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous Components:

CAS: 21645-51-2	Aluminium Hydroxide	97-98%
RTECS: BD 0940000		
CAS: 20859-73-8	Aluminum Phosphide	2-3%
RTECS: BD 1400000	⚠ Water-react. 1, H260; ⚠ Acute Tox. 2, H300; ⚠ Aquatic Acute 1, H400	

Additional information:

Spent Phostoxin Tablets, Pellets, Tablet Prepac, Prepac Ropes, DetiaPhos Tablets and Pellets consist mainly of aluminum hydroxide and inert ingredients in the formulation of the product. The aluminum hydroxide is generated via the reaction in equation 1. The spent material will also contain from about 2 to 3 percent unreacted aluminum phosphide. However, this small amount of active ingredient is stabilized in the crystalline lattice of the waste. As a result, the waste has very low oral and dermal toxicity, is not a significant fire hazard and is not a RCRA hazardous waste. Spent and partially spent dusts are rather dense and ordinarily do not represent an inhalation hazard. Proper protective equipment should be worn under conditions where significant risks of inhalation are present.

Unreacted or incompletely exposed aluminum phosphide fumigants are highly toxic and hazardous wastes which will trigger RCRA laboratory test characteristics of reactivity and ignitability. Since Degesch metal

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phosphide fumigants are not manufactured with ingredients listed under the RCRA toxicity characteristic, they will not trigger the toxicity characteristic leaching procedure (TCLP).



* 4 First-aid measures

• Description of first aid measures

• **Usually no emergency or first aid measures are required due to the low toxicity of the spent aluminum hydroxide. However, recommended procedures for dealing with overexposures from partially spent or unreacted aluminum phosphide and phosphine are given below.**

• General information:

Symptoms of overexposure are headache, dizziness, nausea, difficult breathing, vomiting, and diarrhea. In ALL cases of overexposure, get medical attention immediately. Take victim to a doctor or emergency treatment facility.

Have product container label and applicator's manual with you when calling a poison control center, doctor, or when going for treatment.

• After inhalation:

Get exposed person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth to mouth, if possible. Contact a poison control center or doctor for treatment advice.

• After skin contact:

Take off contaminated clothing immediately. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

• After eye contact:

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

• After swallowing:

Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not give anything by mouth to an unconscious person. Do not induce vomiting unless told to by a poison control center or doctor.

• Information for doctor:

• Most important symptoms and effects, both acute and delayed

The primary route of exposure to spent aluminum phosphide fumigant products is dermal. However, ingestion and inhalation exposures are possible. Spent dust from Degesch aluminum phosphide products has a very low oral and dermal toxicity. This small risk may be avoided by the use of cloth gloves when handling the material, as required by EPA-approved labeling. Accidental ingestion is avoided by washing, prior to eating, after handling spent aluminum phosphide fumigants. The risk of any significant inhalation is very small because of the high density of the spent dust and its low toxicity.

• Indication of any immediate medical attention and special treatment needed

No further relevant information available.

* 5 Fire-fighting measures

• Extinguishing media

• **Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.

• **For safety reasons unsuitable extinguishing agents:** Water

• Special hazards arising from the substance or mixture

If incinerated, product will release the following toxic materials: Oxides of aluminum and phosphorous and phosphine gas (hydrogen phosphide, PH₃).

• Advice for firefighters

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The residual aluminum phosphide found in the spent aluminum phosphide products is not flammable by itself. However, it reacts readily with water, acids or bases to produce phosphine gas (hydrogen phosphide, PH₃) which may evolve to form toxic and/or flammable concentrations in air. The LEL of phosphine gas (hydrogen phosphide, PH₃) is 1.8% v/v (18,000 ppm). The UEL of phosphine gas (hydrogen phosphide, PH₃) is unknown.

• **Protective equipment:**

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

Wear a NIOSH/MSHA approved full-face gas mask – phosphine gas canister combination may be used at levels up to 15 ppm or following manufacturers' use conditions instructions for escape. Above 15 ppm or in situations where the phosphine gas concentration is unknown, a NIOSH/MSHA approved SCBA must be worn.

* 6 Accidental release measures

• **Personal precautions, protective equipment and emergency procedures**

None normally required. Use NIOSH/MSHA approved dust mask if spent dust becomes airborne.

• **Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

• **Methods and material for containment and cleaning up:**

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

Dispose of the collected material according to regulations.

• **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.

* 7 Handling and storage

• **Handling:**

• **Precautions for safe handling**

Store in a cool, dry place.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

• **Information about protection against explosions and fires:** Keep protective respiratory device available.

• **Conditions for safe storage, including any incompatibilities**

Store away from water, acids, bases, strong oxidizing agents and strong reducing agents.

• **Storage:**

• **Requirements to be met by storerooms and receptacles:**

Store products in a locked, dry, well-ventilated area away from heat.

• **Information about storage in one common storage facility:** Not required.

• **Further information about storage conditions:** Store in cool, dry conditions.

• **Specific end use(s)** No further relevant information available.

* 8 Exposure controls/personal protection

• **Additional information about design of technical systems:** No further data; see section 7.

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Control parameters

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use local exhaust at filling zones and where leakage and dust formation is probable. Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.

Components with occupational exposure limits:

21645-51-2 Aluminium Hydroxide

REL Long-term value: 2 mg/m³
as Al

TLV Long-term value: 1* mg/m³
as Al;*as respirable fraction

20859-73-8 Aluminum Phosphide

REL Long-term value: 2 mg/m³
as Al

TLV Long-term value: 1* mg/m³
as Al;*as respirable fraction

7803-51-2 Phosphine

PEL Long-term value: 0.4 mg/m³, 0.3 ppm

REL Short-term value: 1 mg/m³, 1 ppm
Long-term value: 0.4 mg/m³, 0.3 ppm

TLV Short-term value: (1.4) mg/m³, (1) ppm
Long-term value: (0.42) mg/m³, (0.3) NIC-0.1 ppm
Ceiling limit value: NIC-0.5 ppm

· **Additional information:** The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Breathing equipment:

Respiratory protection is not required unless handling of the material produces nuisance airborne concentrations or when handling partially spent or unreacted dust that may liberate phosphine gas..

Protection of hands:



Protective gloves

Wear dry gloves of cotton or other material if contact with tablets, pellets, or Partially spent or unreacted **dust** is likely. Gloves should remain dry after use. Aerate gloves and other clothing that may be contaminated in a well-ventilated area prior to laundering.

· **Material of gloves** Dry gloves of cotton or other material.

Penetration time of glove material

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

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· **Eye protection:**



Tightly sealed goggles recommended if handling of the material produces nuisance airborne concentrations.

* 9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form:

Dust

Color:

Grayish-white Partially spent or unreacted dust is green.

· **Odor:**

Generally odorless, possible slight garlic, carbide or decaying fish

· **Odor threshold:**

Not determined.

· **pH-value:**

Not applicable.

· **Change in condition**

Melting point/Melting range:

Not determined.

Boiling point/Boiling range:

>1000 °C (>1832 °F)

· **Flash point:**

Not applicable.

· **Flammability (solid, gaseous):**

Not flammable under normal conditions. Contact with water or acids may release small amounts of phosphine gas which is flammable. Partially spent or unreacted dust is flammable if contacted with water, acids or bases.

· **Ignition temperature:**

Not determined

· **Decomposition temperature:**

Not determined for spent aluminum phosphide. Partially spent or unreacted dust decomposes at ambient conditions when moisture is present.

· **Auto igniting:**

Product is not self-igniting.

· **Danger of explosion:**

Product does not present an explosion hazard.

· **Explosion limits:**

Lower:

Not determined

Upper:

Not determined.

· **Vapor pressure @ 20 °C (68 °F):**

0 mm Hg

· **Density @ 20 °C (68 °F):**

2.400 g/cm³ (20.028 lbs/gal)

· **Relative density**

Not determined.

· **Vapor density**

Not applicable.

· **Evaporation rate**

Not applicable.

· **Solubility in / Miscibility with**

Water:

Insoluble.

· **Partition coefficient (n-octanol/water):**

Not determined.

· **Viscosity:**

Dynamic:

Not applicable.

Kinematic:

Not applicable.

· **Solvent content:**

Solids content:

100.0 %

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• **Other information**

No further relevant information available.

* 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
Spent aluminum phosphide dust is stable to most chemical reactions, except for hydrolysis. The dust may react with moist air, liquid water, acids and some other liquids to produce toxic and flammable phosphine (hydrogen phosphide, PH₃) gas. Partially
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** Contact with water releases toxic gases.
- **Conditions to avoid** Contact with moisture, acids and bases.
- **Incompatible materials:** Water, acids, bases, strong oxidizing agents and strong reducing agents.
- **Hazardous decomposition products:**
Oxides of aluminum and phosphorous and phosphine gas (hydrogen phosphide, PH₃).

* 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**

21645-51-2 Aluminium Hydroxide
Oral LD50 >2000 mg/kg (rat)
20859-73-8 Aluminum Phosphide
Oral LD50 0.4 mg/kg (rat)
- **Primary irritant effect:**
- **on the skin:** May be irritating.
- **on the eye:** Direct contact may cause eye irritation.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Very toxic
- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer)**
None of the ingredients are listed.

Group 1 - Carcinogenic to humans
Group 2A - Probably carcinogenic to humans
Group 2B - Possibly carcinogenic to humans
Group 3 - Not classifiable as to its carcinogenicity to humans
Group 4 - Probably not carcinogenic to humans
- **NTP (National Toxicology Program)**
None of the ingredients are listed.
- **OSHA-Ca (Occupational Safety & Health Administration)**
None of the ingredients are listed.

* 12 Ecological information

- **Toxicity** The hazards for the aquatic environment are unknown.
- **Aquatic toxicity:**
Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

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- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Very toxic for fish
- **Additional ecological information:**
- **General notes:**
Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.
Also poisonous for fish and plankton in water bodies.
Very toxic for aquatic organisms
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

* 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
When being disposed of, spilled or partially reacted Degesch aluminum phosphide fumigants are hazardous wastes under existing Federal Regulations. If properly exposed, the grayish-white residual dust after a fumigation will not be a hazardous waste and normally contains only a very small amount of unreacted aluminum phosphide. This waste will be safe for disposal. However, the residual dust from incompletely exposed products may require special care.
Triple rinse flasks and stoppers with water or dry deactivate them by exposure to open air for 24 hours or longer. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by other approved procedures. Or it is permissible to remove lids and expose empty flasks to atmospheric conditions until the residue in the flasks is reacted. Then puncture and dispose of in a sanitary landfill or other approved site, or by other procedures approved by state and local authorities.
Some local and state waste disposal regulations may vary from the above recommendations. Disposal procedures should be reviewed with appropriate authorities to ensure compliance with local regulations. Contact your State Pesticide or Environmental Control Agency of Hazardous Waste Specialist at the nearest EPA Regional Office for guidance.
See Degesch America, Inc. SDS for Aluminum Phosphide fumigants for recommendations on disposal and handling unreacted or incompletely reacted fumigant.
- **Uncleaned packagings:**
- **Recommendation:**
Triple rinse flasks and stoppers with water or dry deactivate them by exposure to open air for 24 hours or longer. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by other approved procedures.

* 14 Transport information

- | | |
|------------------------------------|------------------------|
| · UN-Number | |
| · DOT, ADR, ADN, IMDG, IATA | Non-Regulated Material |
| · UN proper shipping name | |
| · DOT, ADR, ADN, IMDG, IATA | Non-Regulated Material |

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- **Transport hazard class(es)**
- **DOT, ADR, ADN, IMDG, IATA**
- **Class** Non-Regulated Material
- **Packing group**
- **DOT, ADR, IMDG, IATA** Non-Regulated Material
- **Environmental hazards:** Product contains environmentally hazardous substances:
Aluminum Phosphide
- **Special precautions for user** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **UN "Model Regulation":** -

* 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

- **Section 355 (extremely hazardous substances):**

20859-73-8 Aluminum Phosphide

- **Section 313 (Specific toxic chemical listings):**

20859-73-8 Aluminum Phosphide

- **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

- **Proposition 65**

- **Chemicals known to cause cancer:**

None of the ingredients are listed.

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

- **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

- **Carcinogenic categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients are listed.

- **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients are listed.

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients are listed.

- **GHS label elements**

This product is labeled according to FIFRA.

The substance is classified and labeled according to the Globally Harmonized System (GHS).

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Hazard pictograms



GHS06 GHS09

Signal word Danger

Hazard-determining components of labeling:

Aluminum Phosphide

Hazard statements

Fatal if swallowed or if inhaled.

Very toxic to aquatic life.

Precautionary statements

Do not breathe dust/fume/gas/mist/vapors/spray.

Wear respiratory protection.

Avoid release to the environment.

Wash thoroughly after handling.

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

If swallowed: Immediately call a poison center/doctor.

Remove/Take off immediately all contaminated clothing.

Specific treatment is urgent (see supplementary first aid instructions on this Safety Data Sheet).

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

In case of fire: Use for extinction: CO₂, sand, extinguishing powder.

Collect spillage.

Store locked up.

Store in a well-ventilated place.

Dispose of contents/container in accordance with local/regional/national/international regulations.

National regulations:

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

State Right to Know

CAS: 21645-51-2	Aluminium Hydroxide	97-98%
RTECS: BD 0940000		
CAS: 20859-73-8	Aluminum Phosphide	2-3%
RTECS: BD 1400000	⚠ Water-react. 1, H260; ⚠ Acute Tox. 2, H300; ⚠ Aquatic Acute 1, H400	
21645-51-2	Aluminium Hydroxide	97%

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

Date of preparation / last revision 04/02/2015 / -

Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

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IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Water-react. 1: Substances and Mixtures which, in contact with water, emit flammable gases, Hazard Category 1

Acute Tox. 2: Acute toxicity, Hazard Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1

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

SDS created by MSDS Authoring Services www.msdsauthoring.com (877) 204-9106