

MATERIAL SAFETY DATA SHEET

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Supersedes:

**TALUNEX**

Dangerous for the environment



Highly flammable



Very toxic

1. Identification of the product and the company

Name : **TALUNEX**
Chemical description of active ingredient(s) : Aluminium Phosphide
Identification of the Product : Solid
GCPF code : TB (Tablet)
Company identification : Certis UK
1b Mill Way, Boscombe Down Business Park, Amesbury, Wiltshire SP4 7RX
Tel: 0044 (0) 1980 676500. Fax: 0044 (0) 1980 626555
Email: certis@certiseurope.co.uk. Web: www.certiseurope.co.uk
Use : Rodenticide
Emergency Contacts : For advice on medical emergencies, fires, spillages or chemical hazards ONLY – phone 0870 190 6777.
For further advice for medical professionals The National Poisons Information Service: Tel: 0870 600 6266 (UK only). Or Dublin Tel: 00353 1379 964/379966.
For further advice for veterinary surgeons: 020 7635 9195.

2. Information on ingredients

Substance/preparation : Preparation.
This product is considered to be hazardous and contains hazardous components.
Other information : See chapter 16 for full text of R phrases.
Composition : Below mentioned are the classified components in the formulation as well as the active ingredient (s).

Substance name	Value(s)	CAS nr/EINECS nr/EC index	Symbol(s)	R-Phrase(s)
Aluminium phosphide	: 57 %	20859-73-8 / 244-088-0 / 015-004-00-8	F T + N	15/29-28-32-50
Rat oral LD50 (mg/kg)	: 8.7			
OEL mg/m3	: 2 (=MAC:F)			
LC50-96H – Rainbow trout (mg/l)	: .0097			

3. Hazard identification

Physical/chemical hazards : Contact with water liberates highly flammable gases.
Human health hazards : Very toxic if swallowed. Contact with water liberates very toxic gas. Contact with acids liberates very toxic gas. Repeated exposure may cause liver, kidney and lungs damages.
Environmental hazard : Very toxic to aquatic organisms.

4. First-aid measures

Effects and Symptoms

General : Reacts with water. Liberates very toxic gas. Exposure results in acute health complaints.
Inhalation : Inhalation results in absorption into the body. Exposure to small amounts may result in acute health complaints. Dizziness. Tightness of the chest. Nausea. Abdominal disorders.
Ingestion : Ingestion results in absorption into the blood. Exposure to small amounts may result in acute health complaints. Tightness of the chest. Stomachache. Diarrhoea. Cramps. Unconsciousness.
Skin contact : Skin contact results in absorption into the body and may result in health complaints. Exposure to small amounts may result in acute health complaints. Redness. Burning sensation.
Eye contact : Eye contact may result in impaired vision, tears, redness and conjunctivitis. Prolonged or repeated eye contact may cause irreversible damage to eyes.

First-aid measures

General information : In the event of any complaints or symptoms, avoid further exposure. Treat symptomatically. If you feel unwell seek medical advice (show the label where possible).
Inhalation : Remove victim to fresh air. Allow the victim to rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Immediately get medical attention.
Ingestion : Wash out mouth with plenty of water. Allow the victim to rest. Give water to drink. Induce vomiting. **Never** give anything by mouth to an unconscious person. Immediately get medical attention.
Skin contact : Remove contaminated clothing and shoes. **Do not** use water for cleaning. Immediately get medical attention.
Eye contact : Remove contact lenses if present. Rinse immediately with plenty of water, with the eyelid wide open for at least 15 minutes. Immediately get medical attention.
Protection of first aiders : Avoid exposure. Wear suitable protective clothing, gloves and eye/face protection. In case of insufficient ventilation, wear suitable respiratory equipment.

5. Fire-fighting measures

Extinguishing media : Dry chemical. Sand.
Not usable extinguishing media : **Do not use extinguishing media containing water.**
Special procedures : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting sand or dry chemical to enter environment.
Hazardous thermal : Burning may produce: very toxic vapours/gases.

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- (de) composition products : See also Heading 10 (Stability and Reactivity).
Protection of fire-fighters : Self-contained breathing apparatus with full face shield. Wear suitable protective clothing. Fight fire from safe distance and protected location.
Unusual fire/explosion hazards : Contact with water liberates highly flammable gases.

6. Accidental Release Measures

- Personal precautions : In the event of major spillage evacuate room immediately. Contact an expert immediately. Provide adequate ventilation. Wear suitable protection. Self-contained breathing apparatus with full face shield. Keep away from sources of ignition.
Environmental precautions : Prevent dispersion. Collect spilled material. Prevent entry to sewers and public waters. Make provisions to collect extinguishing water after fires. In the event of major spillage contact an expert immediately. Notify authorities if product enters sewers or public waters.
Methods for cleaning up : Prevent dispersion. Clean up the remainder carefully. **Do not** use water for cleaning. Remove as chemical waste, according to national or local legislation.

7. Handling and storage

- General** : **Read label before use**
Handling : When using, **do not** eat, drink or smoke. Wear suitable protective clothing, gloves, eye/face protection. Keep away from water. Keep away from sources of ignition. Keep away from open flame and sparks.
Storage : Store in a frost-free, dry, cool, well-ventilated area. Keep in fireproof place. According to national or local legislation. **Do not** store together with other products. Keep away from water and acids. Keep away from ambient humidity. Keep locked up and out of reach of children. Keep away from food, drink and animal feeding stuffs.
Packaging material : Use original packaging.

8. Exposure controls/personal protection

- Engineering measures : Provide adequate ventilation.
Hygiene measures : When using, **do not** eat, drink or smoke. Wash hands and other exposed areas with soap and water before leaving work. Shower after work. Wear clean working clothes every day.
Occupational Exposure Limits : See Heading 2 (Information on ingredients)
Personal protection
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.
- Skin protection : Wear suitable protective clothing.
- Hand protection : Use neoprene gloves.
- Eye protection : In the event of possible exposure: combined eye and respiratory protection.
- Ingestion : When using, **do not** eat, drink or smoke.

9. Physical and chemical properties

- Physical state : Tablets
Colour : Grey
Odour : Garlic
pH value : Not applicable.
Solubility in water: : Reacts violently with water. (Decomposition)
Relative vapour density (air=1) : Not applicable.
Self-ignition °C : Thus product contains: ignition-inhibiting additives.
Physical properties : Decompose on contact with moist air or water.
Phosphine will be formed.
Flash point (°C) : Not applicable.
Log P octanol / water at 20°C : Not applicable.

10. Stability and reactivity

- Stability : Stable under normal circumstances.
Hazardous decomposition products : Burning may produce e.g: Phosphine. Phosphoric acid. Phosphorus oxides.
Hazardous reactions : Reacts violently with water liberating highly flammable gases. Subsequently fire/explosion hazard.
Materials to avoid : Water. Acids.
Other information : Handle carefully. Uncontrolled development of hydrogen phosphide can cause fires.
Conditions to avoid : Open flame. Sparks.
Hazardous Polymerisation : Will not occur.

11. Toxicological information

- On product : Very toxic if swallowed.
No data available.
Rat inhalation LC50 [mg/l/4h] : Phosphine: 0.015
OEL mg/m3 : Phosphine: 0.15
Other toxicological information : Contact with water liberates toxic gas: Phosphine
On ingredients : See Heading 2 (Information on Ingredients).

12. Ecological information

- On product : Very toxic to aquatic organisms.

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Ecological effects information : Phosphine decomposes in the atmosphere within 5 – 28 hours.
LC50-96H-Rainbow trout mg/l : Phosphine : 0.0097
EC50-48H-Daphnia Magna mg/l : Phosphine : 0.2
On ingredients : See Heading 2 (Information on Ingredients)

13. Disposal consideration

Waste disposal procedures : Prevent dispersion. Remove waste product to a suitable incinerator. According to national or local legislation.
Waste of residues : Fire hazard. Keep waste separate. Remove as chemical waste, according to national or local legislation.
Contaminated packaging : Keep waste packaging separate. Remove as chemical waste, according to national or local legislation. Packaging **must not** be reused.

14. Transport information

- UN No. : 1397
- Shipping name : Aluminium phosphide
Land transport (ADR/RID)
- Class : 4.3 (6.1)
- Packing group : I
- Hazard identification number : -
- Tremcard nr. : 43GWT2-1
- Special provision 640 : -
- Hazard Label(s)



Sea transport (IMO)
- IMDG code : 4.3
- Packing group : I
- EMS-Nr : F - G, S - N

15. Regulatory information

EU Regulations EU Classification (67/548/EEC-88/379/EEC)

Hazard symbol(s) : T + Very toxic, F Highly flammable, N Dangerous for the environment.

Warning phrases

R Phrase(s) : R15/29 – Contact with water liberates toxic, extremely flammable gases.
: R28 – very toxic if swallowed.
: R32 – Contact with acids liberates very toxic gas.
: R50 – Very toxic to aquatic organisms.

Safety Phrases

S Phrase(s) : S1/2 - Keep locked up and out of reach of children.
: S7/8 – Keep container tightly closed and dry.
: S9 – Keep container in a well ventilated place.
: S13 - Keep away from food, drink and animal feedingstuffs.
: S20/21 – When using, **do not** eat, drink or smoke.
: S23 - **Do not** breathe gas/fumes/vapour/spray.
: S24/25 - Avoid contact with skin and eyes.
: S30 – **Never** add water to this product.
: S35 - This material and its container must be disposed of in a safe way.
: S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.
: S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).

Symbol(s)



Additional information : Packaging **must not** be reused.

16. Other information

Risk phrases

R Phrase(s) : R15/29 – Contact with water liberates toxic, extremely flammable gases.
: R28 – Very toxic if swallowed.
: R32 – Contact with acids liberates very toxic gas.
: R50 – Very toxic to aquatic organisms.

Sources of key data used : The Pesticide Manual 12th edition (ISBN 1 901396 12 6)
: Files Certis Europe B.V.

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: Classification Databases ECB

The contents and format of this MSDS are in accordance with EC Commission Directive 93/112/EEC, 99/45/EC and 2001/58/EC.

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