

MATERIAL SAFETY DATA SHEET

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Revision nr : 2

Date : 30/7/2002

TALUNEX

Supersedes : 16/8/2001

0019-0249

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Dangerous for the environment



Highly flammable



Very toxic

1. Identification of the product and the company

Name : **TALUNEX.**
Chemical description active ingredient(s) : Aluminium Phosphide
Identification of the product : Solid.
GCPF code : TB (Tablet)
Company identification : LUXAN B.V.
Industrieweg 2
6662 PA ELST (GLD.) Nederland
Tel. +31 481 36 08 11
Fax +31 481 37 67 34
E-mail : luxan@luxan.nl

Use : Rodenticide.
Anti-poison center - Tel. : NL : 030 274 88 88 (This telephone number is only available for the doctor in attendance).
B : 070 245 245
D : 049 89 19 240
E : 091 56 20 420
F : 01 40 05 48 48
UK : 0121 554 38 01

Print date : 24/3/2005

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)
<u>Aluminium phosphide</u>	: 57 %	20859-73-8 / 244-088-0 / 015-004-00-8	F T+ N	15/29-28-32-50
<i>Rat oral LD50 [mg/kg]</i>	: 8.7			
<i>OEL mg/m3</i>	: 2 (=MAC: F)			
<i>LC50-96H-Rainbow trout mg/l</i>	: .0097			

3. Hazards 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 blood . Exposure to small amounts may result in acute health complaints. Tightness of the chest. Stomachache. Diarrhoea. Cramps. Unconsciousness.

LUXAN B.V.

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4. First aid measures (continued)

Skin contact	: Skin contact results in absorption into 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 water to enter environment.
Hazardous thermal (de)composition products	: Burning may produce: very toxic vapours / gases. 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 and 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

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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	: This 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 Polymerization	: 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/m ³	: 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.
Ecological effects information	: Phosphine decomposes in the atmosphere within 5 - 28 hours.
LC50-96H-Rainbow trout mg/l	: Phosphine : 0.0097
EC50 -24H - Daphnia magna mg/l	: Phosphine : 0.2
On ingredients	: See Heading 2 (Information on ingredients).

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13. Disposal considerations

- 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-I
- Special provision640 : -
- 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) : S01/02 - Keep locked up and out of reach of children.
S07/08 - Keep container tightly closed and dry.
S09 - 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.

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16. Other information

Luxan code : WA
Comp. Code : 0
Explanation of R-phrases used in heading 2 : 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 ed (ISBN 1 901396 12 6)
- Files Luxan B.V.
- Classification Database 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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