

1	Identification of the preparation and the supplying Company	<p>1.1 TALUNEX</p> <p>1.2 Aluminium Phosphide Solid, TB (Tablet). For use only in the control of rabbits, moles and rats outdoors</p> <p>1.3 Killgerm Chemicals Ltd, Wakefield Road, Ossett, West Yorkshire, WF5 9AJ. Tel: +44 (0)1924 268450 Fax: (0)1924 265033 Email: technical@Killgerm.com</p> <p>1.4 Emergency telephones. For advice on medical emergencies, fires, spillages or chemical hazard only – phone 0870 190 6777. National Poisons Information Service 0870 600 6266. Killgerm Chemicals Ltd, 01924 268452 (Office hours)</p>																														
2	Hazards identification	<p>Dangerous for the environment. Symbol: N</p> <p>Highly flammable. Symbol: F</p> <p>Very toxic. Symbol: T+</p> <hr/> <p>Physical/Chemical hazard:- Contact with water liberates highly flammable gas.</p> <p>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 lung damage.</p> <p>Environmental hazard:- Very toxic to aquatic organisms.</p>																														
3	Composition and information on ingredients	<p>Aluminium phosphide preparation with ignition-inhibiting additives.</p> <table border="1"> <thead> <tr> <th>Ingredient</th> <th>Concentration</th> <th>Symbol</th> <th>R-phrases</th> <th>CAS-No.</th> </tr> </thead> <tbody> <tr> <td>Aluminium phosphide</td> <td>57%</td> <td>T+, F, N</td> <td>R15/29-21-28-32-50</td> <td>20859-73-8</td> </tr> <tr> <td colspan="5">Generated ingredients</td> </tr> <tr> <td>Hydrogen phosphide (Phosphine)</td> <td>0.1ppm, 0.14mg/m³ (Long-term exposure) 0.2ppm, 0.28mg/m³ (Short-term exposure)</td> <td></td> <td></td> <td>7803-51-2</td> </tr> <tr> <td>Ammonia</td> <td>25ppm, 18mg/m³ (Long-term exposure) 35ppm, 25mg/m³ (Short-term exposure)</td> <td></td> <td></td> <td>7664-41-7</td> </tr> <tr> <td>Carbon dioxide</td> <td>5000ppm, 9150mg/m³ (Long-term exposure) 15000ppm, 27400mg/m³ (Short-term exposure)</td> <td></td> <td></td> <td>124-38-9</td> </tr> </tbody> </table>	Ingredient	Concentration	Symbol	R-phrases	CAS-No.	Aluminium phosphide	57%	T+, F, N	R15/29-21-28-32-50	20859-73-8	Generated ingredients					Hydrogen phosphide (Phosphine)	0.1ppm, 0.14mg/m ³ (Long-term exposure) 0.2ppm, 0.28mg/m ³ (Short-term exposure)			7803-51-2	Ammonia	25ppm, 18mg/m ³ (Long-term exposure) 35ppm, 25mg/m ³ (Short-term exposure)			7664-41-7	Carbon dioxide	5000ppm, 9150mg/m ³ (Long-term exposure) 15000ppm, 27400mg/m ³ (Short-term exposure)			124-38-9
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4	First Aid measures	<p>Inhalation: in case of headache, dizziness, feeling of constriction, difficult breathing and nausea immediately leave the danger zone and seek fresh air; consult a physician; inhale products for an acute treatment following exposition of smoke gas (eg a beclometosone (Ventolair ®) spray).</p> <p>Eye contact: remove preparation with fluff-free cloth; rinse with plenty of water and apply eye drops only after no more powdery residues are visible.</p> <p>Skin contact: remove preparation by brushing; only then use water for cleansing.</p> <p>Special aids required for first aid measures: have methyl prednisolon (application by physician) and products for acute treatment following exposure to smoke gas (eg a beclometosone (Ventolair ®) spray) available.</p>																														
5	Fire-fighting measures	<p>Suitable extinguishing media: the product itself does not burn; extinguish fires in the vicinity with dry sand or powder and then with CO2</p> <p>Extinguishing media that must not be used for safety reasons: water, extinguishers containing water</p> <p>Special hazards from the substance itself, its combustion products or from its vapours: in case of fires hazardous combustion gases are formed: caustic phosphoric acid aerosols (phosphoric pentoxide)</p> <p>Special protective equipment for fire fighting : respiratory equipment, see para 8 below</p>																														
6	Accidental release measures	<p>Personal precautions: In the event of major spillage evacuate room immediately. Contact an expert immediately (phone emergency number in para 1.4, above). Provide adequate ventilation. Wear suitable protection. Self-contained breathing apparatus with full face shield. Keep away from sources of ignition.</p> <p>Environmental precautions: Prevent dispersion. Collect spilled material. Keep it dry. Store in a safe place. 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.</p> <p>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.</p>																														
7	Handling and storage	<p>General: Read label before use. Handle, store and use only in accordance with the label, this safety data sheet and training.</p> <p>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. Keep under lock and key in such a way that only experts have access to the product.</p> <p>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. Follow HSE guidelines on storage.</p> <p>Packaging material: Store in original packaging only.</p>																														

Safety Data Sheet

TALUNEX

Empty containers: Empty completely. Up-end the flask and tap out any residues into burrow system or bury. (Residue however small, should not be left exposed on the surface). Crush the flask and dispose of safely with the foil seal and the flask's screw cap.

8	Exposure controls and personal protection	<p>Engineering measures: Hygiene measures:</p> <p>Workplace Exposure Limits: Personal Protection -Respiratory protection -Skin protection -Hand protection -Eye protection -Ingestion</p>	<p>Provide adequate ventilation.</p> <p>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.</p> <p>See Heading 3 (Information on ingredients)</p> <p>In case of insufficient ventilation, wear suitable respiratory equipment e.g. Full Face Mask with B2P3 filter.</p> <p>Wear suitable protective clothing, e.g. disposable, lightweight, washable cotton or blended cotton overalls.</p> <p>Use synthetic rubber gloves.</p> <p>In the event of possible exposure: combined eye and respiratory protection.</p> <p>When using, do not eat, drink or smoke.</p>
9	Physical and chemical properties	<p>Appearance: Physical state: Colour: Odour: pH value: Solubility in water: Relative vapour density (air=1): Self ignition °C: Physical properties: Flash point (°C): Log P octanol/water at 20°C:</p>	<p>Grey pellets Tablets Grey Garlic Not applicable Reacts violently with water (decomposition) Not applicable This product contains ignition-inhibiting additives. Decomposes on contact with moist air or water. Phosphine will be formed. Not applicable Not applicable</p>
10	Stability and reactivity	<p>Stability: Hazardous decomposition products: Hazardous reactions: Materials to avoid: Other information: Conditions to avoid: Hazardous polymerisation:</p>	<p>Stable under normal circumstances. Burning may produce e.g.: Phosphine. Phosphoric acid. Phosphorus oxides. Reacts violently with water liberating highly flammable gases. Subsequently fire/explosion hazard. Water. Acids. Handle carefully. Uncontrolled development of hydrogen phosphide can cause fires. Open flame. Sparks. Will not occur.</p>
11	Toxicological information	<p>On product: Rat inhalation LC50 [mg/l/4h]: Other toxicological information: On ingredients:</p>	<p>Very toxic if swallowed. No data available. Phosphine: 0.015 Contact with water liberates toxic gas: Phosphine See Heading 3 (Information on Ingredients).</p>
12	Ecological information	<p>On product: Ecological effects information: LC50-96H-Rainbow trout mg/l: EC50-48H-Daphnia Magna mg/l:</p>	<p>Very toxic to aquatic organisms Phosphine decomposes in the atmosphere within 5 – 28 hours. Phosphine : 0.0097 Phosphine : 0.2</p>
13	Disposal considerations	<p>Waste disposal procedures: Waste residues: Empty packaging:</p>	<p>Keep dry. Prevent dispersion. Remove waste product to a suitable incinerator. According to national or local legislation. Fire hazard. Keep waste separate. Remove as chemical waste, according to national or local legislation. Render residues safe by the method described in HSE guidance note:- "Fumigation" HSG251. Keep waste packaging separate. Remove packaging waste, according to national or local legislation. Packaging must not be reused. Contact supplier for advice on disposal. EWC Code:- 15 01 04 (Empty packaging)</p>

14 Transport information

Road-/rail transport acc. to ADR/RID:
 Class: 4.3, UN 1397, PG: 1
 Description of goods: Aluminium phosphide, mixture
 Labels: Dangerous when wet 4 = main risk
 Toxic = subsidiary risk
 Orange placard on vehicle: above 20 kgs net weight
 Remarks: limited quantities acc. to chapter 3.4 not possible

Sea transport acc. to IMDG-Code
 Class: 4.3 UN-No.: 1397 Packing Group I
 Proper shipping name: ALUMINIUM PHOSPHIDE, MIXTURE
 Labels: Dangerous when wet 4 = main risk
 Toxic = subsidiary risk
 Marine pollutant: no
 EmS-Code: F-G, S-N

Air Transport acc. to IATA-DGR/ICAO-TI
 Sea Transport and packaging instructions: 487 (IATA 53rd Ed.)
 Proper shipping name: Aluminium phosphide
 Remarks: max. weight 1 kg/inner packaging, 15 kg/outer packaging cargo aircraft only

Transport by barge acc. to ADN/ADNR see road transport

15 Regulatory information

- This preparation has been classified in accordance with The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009: CHIP 4. These implement the Dangerous Preparations Directive-99/35/EC. This Safety Data Sheet complies with CHIP 4 requirements and the Safety Data Sheets Directive 91/155/EEC (as amended by Directives 93/112/EC and 2001/58/EC).
- Restricted to professional users.
- Refer to other relevant measures such as the Health and Safety at Work etc Act 1974 and the COSHH regulations and guidance.
- The information contained in this data sheet does not constitute the user's own assessment of workplace risks as required by legislation.
- This product is approved under The Control of Pesticides Regulations (as amended) 1986. MAPP no. 14608. PCS no. 91379.

Symbols: F, T+, N

Warning phrases

R Phrase(s) : R15/29 – Contact with water liberates toxic, extremely flammable gases.
 : R28 – very toxic if swallowed.
 : R21 – Harmful in contact with skin
 : R32 – Contact with acids liberates very toxic gas.
 : R50 – Very toxic to aquatic organisms.

S Phrase(s) : 1/2 - Keep locked up and out of reach of children.
 : 3/9/14/49 Keep only in the original container in a well ventilated place. Away from humidity, water and acids
 : 30 – **Never** add water to this product.
 : 36/37 - Wear suitable protective clothing and gloves.
 : 45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).
 : 60 This material and/or its container must be disposed of as hazardous waste
 : 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

Additional: Skin and hair must be brushed free of residues in a well-ventilated place after contact and always after work and before washing, eating, drinking or going out in the rain.

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

16 Other information

LEGEND:

n.a. = not applicable
 n.t. = not tested
 n.v. = not available
 WEL = Workplace Exposure Limit

Use only in accordance with label instructions.

Operatives using this product should be trained in its use.

The information in this data sheet should be considered when undertaking a risk assessment under the COSHH regulations.

This data sheet does not constitute a COSHH assessment.

The information contained within this data sheet is strictly for general guidance only and should not be relied upon over and above this. This data sheet is intended to provide general health and safety guidance on the handling, storage and transportation of the preparation. The information provided in this data sheet is accurate at the date of publication and will be updated as and when appropriate. No liability will be accepted by Killgerm Chemicals Limited for any loss, injury or damage arising from any failure to comply with the information and advice contained within this data sheet and/or failure to comply with the manufacturer's guidelines, product label data and any associated technical usage literature.

Talunex is a registered trade mark of Killgerm Group Limited.