

# Acorn Products (PTY) Ltd.

## SAFETY DATA SHEET

Version 1.0 Revision Date: May 2014

Date of issue: May 2009

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### 1. IDENTIFICATION OF THE SUBSTANCE

Product name: Vapona Agricultural Strip  
Brand: Vapona  
Active: Dichlorvos (2,2-dichlorovinyl dimethyl phosphate)  
Synonyms: DDVP  
Product type: VP (Vapour Releasing Product)  
Recipe: TTV103  
Company: Acorn Products (PTY) Ltd.  
Physical Address: Units 13 and 14 Corner Mini's  
Northlands Business Park  
Newmarket Road  
North Riding  
2162  
Postal address: P.O. Box 82  
Strubens Valley  
1735  
Telephone: +27 11 704 6100  
Fax: +27 11 704 6099  
Emergency Phone #: +27 83 251 2262 contact Mrs. Gail Downing

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### 2. PHYSICAL/CHEMICAL CHARACTERISTICS

Form: Impregnated strip with aromatic odour  
Odour: Aromatic  
Colour: Yellow plastic strip  
Vapour Pressure: N/A  
pH: N/A  
Density: N/A  
Solubility: Vapona is hydrolyzed in aqueous solution  
Viscosity: N/A  
Boiling range: N/A  
Melting range: N/A

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### 3. FIRE HAZARD AND CONTROL

Flash point: N/A  
Ignition Temperature: Non-flammable strip  
Explosive limits: N/A  
Extinguishing media: CO<sub>2</sub>, Dry powder

Combustion gases:	Harmful fumes may be emitted if involved in sufficient burning or external heat.
Hazardous decomposition:	Dimethyl hydrogen phosphate, dichloroacetaldehyde, dichlorvos vapour may be formed.
Thermal decomposition:	Vapour is volatile and decomposes at elevated temperatures.
Incompatibility:	Vapona reacts to alkaline products (Bordeaux mixture, lime sulphur), plain mild steel or tinplate containers, plastic bottles.
Protection against fire:	Wear protective clothing and self-contained breathing apparatus. Confine the use of water spray to cooling unaffected stock.

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#### 4. COMPOSITION/INFORMATION ON INGREDIENTS

Dichlorvos:	221 g
Plasisiser:	675 g
Stabiliser:	53 g
Inerts:	to 1.0 Kg

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#### 5. FIRST AID MEASURES

Signs and symptoms of poisoning:	Excessive sweating, salivation, headache, weakness, giddiness, nausea, stomach pains, blurred vision, muscle twitching, coma, respiratory arrest.
Skin contact:	Remove contaminated clothing immediately and wash affected skin with soap and water. Obtain medical attention.
Eye contact:	Flush eyes thoroughly with water and obtain medical attention.
Ingestion:	Poisonous if ingested. Do not induce vomiting
Emergency antidote:	Atropine sulphate.
Inhalation:	Remove to fresh air. If poisoning symptoms occur, obtain medical attention immediately.

Medical advice: VAPONA is a cholinesterase inhibitor. Atropine is the emergency antidote. In all cases of severe intoxication and as early as possible inject, preferably IV atropine sulphate 2-4 mg for adults (0.04 mg/kg to 0.08 mg/kg body weight for children), every 3-10 minutes until adequately atropinised, as shown by dilated pupils, flushing of the skin, dry mouth. If the IM route has to be used, take care not to overdose. If available also administer, preferably within 48 hours, an oxime, e.g. 2-PAM, P<sub>2</sub>S (CONTRATHION) or TOXOGONIN, according to manufacturer's instructions.

Morphine or other contraindications: Keep airway clear and watch respiration. Artificial respiration may be required. Observe patient in hospital for at least 24 hours. Diagnosis should be confirmed by estimating the cholinesterase activity in the blood.

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## 6. TOXICOLOGICAL INFORMATION

Acute toxicity LD<sub>50</sub> Rat oral (mg/kg): 160  
Rat Dermal (mg kg): 300  
Inhalation LC% Rate (4hr) mg/L: > 0.2

Occupational exposure limits: Dichlorvos skin: ACGIH-TLV/TWA: 1 mg/m<sup>3</sup>

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## 7. HANDLING AND STORAGE

Handling: Avoid contact with skin, eyes, nose and mouth. Wear rubber gloves when handling. Wash hands with soap and water after handling and before eating, drinking or smoking. Do not open sachet until immediately before use.

Application: N/A

Leaks/Spills: Clean contaminated surfaces with a detergent solution

Storage: Store below 25°C away from direct sunlight. Keep out of reach of children. Store away from food and feedstuffs.

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## 8. REACTIVITY DATA

Stability: 2 year shelf life from date of manufacture

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## 9. ECOLOGICAL INFORMATION

Degradability: Readily biodegradable. Can be decomposed chemically, especially under alkaline conditions

Hazards: Highly toxic to fish, mammals, birds and bees

Other effects: Toxic to aquatic invertebrates and wildlife

Disposal: Open dumping is prohibited

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## 10. DISPOSAL CONSIDERATIONS

Never re-use the empty container for any purpose but destroy it and dispose of it in a safe manner. Burn contaminated waste material in a proper incinerator or bury in an approved dump where there is no risk of contaminating ground or surface water. Before burying, mix with sodium carbonate (washing soda) crystals, to assist in the product's decomposition.

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## 11. TRANSPORT INFORMATION

None dangerous cargo  
Keep dry  
Keep separated from food and feedstuffs

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## **12. REGULATORY INFORMATION**

Falls under the Department of Agriculture South Africa act 36 of 1947 registration no. L1785.

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## **13. OTHER INFORMATION**

The data here is based on current knowledge and experience. The purpose of this document is to describe the product in terms of safety requirements. The data does not signify any warrant to the product properties.

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# Acorn Products (PTY) Ltd.

## SAFETY DATA SHEET

Version 1.0 Revision Date: May 2014

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### 1. IDENTIFICATION OF THE SUBSTANCE

Product name: Vapona Cupboard Exterminator  
Brand: Vapona  
Active: Dichlorvos (2,2-dichlorovinyl dimethyl phosphate)  
Synonyms: DDVP  
Product type: VP (Vapour Releasing Product)  
Recipe: TTV104  
Company: Acorn Products (PTY) Ltd.  
Physical Address: Units 13 and 14 Corner Mini's  
Northlands Business Park  
Newmarket Road  
North Riding  
2162  
Postal address: P.O. Box 82  
Strubens Valley  
1735  
Telephone: +27 11 704 6100  
Fax: +27 11 704 6099  
Emergency Phone #: +27 83 251 2262 contact Mrs. Gail Downing

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### 2. PHYSICAL/CHEMICAL CHARACTERISTICS

Form: Impregnated strip with aromatic odour  
Odour: Aromatic  
Colour: Yellow plastic strip  
Vapour Pressure: N/A  
pH: N/A  
Density: N/A  
Solubility: Vapona is hydrolyzed in aqueous solution  
Viscosity: N/A  
Boiling range: N/A  
Melting range: N/A

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### 3. FIRE HAZARD AND CONTROL

Flash point: N/A  
Ignition Temperature: Non-flammable strip  
Explosive limits: N/A  
Extinguishing media: CO<sub>2</sub>, Dry powder

Combustion gases:	Harmful fumes may be emitted if involved in sufficient burning or external heat. Smoke and fumes are hazardous through inhalation or absorption through the skin.
Hazardous decomposition:	Dimethyl hydrogen phosphate, dichloroacetaldehyde, dichlorvos vapour may be formed.
Thermal decomposition:	Vapour is volatile and decomposes at elevated temperatures.
Incompatibility:	Vapona reacts to alkaline products (Bordeaux mixture, lime sulphur), plain mild steel or tinplate containers, plastic bottles.
Personal Protective Equipment:	N/A

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#### **4. COMPOSITION/INFORMATION ON INGREDIENTS**

Dichlorvos:	221 g
Plasisiser:	675 g
Stabiliser:	53 g
Inerts:	to 1.0 Kg

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#### **5. FIRST AID MEASURES**

Ingestion: Poisonous if ingested. Do not induce vomiting.

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#### **6. TOXICOLOGICAL INFORMATION**

Poisonous if ingested.

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#### **7. HANDLING AND STORAGE**

Hand protection:	N/A
Application:	N/A
Leaks/Spills:	N/A
Storage:	Store below 25°C away from direct sunlight. Keep out of reach of children. Store away from food and feedstuffs.

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#### **8. REACTIVITY DATA**

Stability: 2 year shelf life from date of manufacture.

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#### **9. ECOLOGICAL INFORMATION**

Degradability: Readily biodegradable. Ecologically friendly.

Disposal:

Open dumping is prohibited. For large quantities use a suitable incineration plant in accordance with official regulations.

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#### **10. DISPOSAL CONSIDERATIONS**

Never re-use the empty container for any purpose but destroy it and dispose of it in a safe manner.

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#### **11. TRANSPORT INFORMATION**

None dangerous cargo  
Keep dry  
Keep separated from food and feedstuffs

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#### **12. REGULATORY INFORMATION**

Falls under the Department of Agriculture South Africa act 36 of 1947 registration no. L1785.

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#### **13. OTHER INFORMATION**

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# Acorn Products (PTY) Ltd.

## SAFETY DATA SHEET

Version 1.0 Revision Date: May 2014

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### 1. IDENTIFICATION OF THE SUBSTANCE

Product name: Vapona Room Exterminator  
Brand: Vapona  
Active: Dichlorvos (2,2-dichlorovinyl dimethyl phosphate)  
Synonyms: DDVP  
Product type: VP (Vapour Releasing Product)  
Recipe: TTV105  
Company: Acorn Products (PTY) Ltd.  
Physical Address: Units 13 and 14 Corner Mini's  
Northlands Business Park  
Newmarket Road  
North Riding  
2162  
Postal address: P.O. Box 82  
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#### **6. TOXICOLOGICAL INFORMATION**

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#### **7. HANDLING AND STORAGE**

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Application:	N/A
Leaks/Spills:	N/A
Storage:	Store below 25°C away from direct sunlight. Keep out of reach of children. Store away from food and feedstuffs.

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#### **8. REACTIVITY DATA**

Stability: 2 year shelf life from date of manufacture.

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#### **13. OTHER INFORMATION**

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