

# KOMBAT ANTS

Registration No. L6188 – ACT 36 OF 1947



**KOMBAT ANTS** is an emulsifiable concentrate, contact and stomach insecticide for the control of a wide range of garden, household and wood destroying insects, as listed.

## **COMPOSITION**

### **Active Ingredient**



Deltamethrin (pyrethroid) - 10g/ℓ







## **USES AND BENEFITS**






**KOMBAT ANTS** has been reformulated and now contains Deltamethrin, a 'safer, more environmentally friendly' active ingredient.

This product is easily mixed and can be applied as a spray or brushed onto surfaces. Kombat Ants is quick acting with a good residual effect.

## **METHOD OF APPLICATION**

<b>PEST</b>	<b>LOCALITY</b>	<b>ADD TO 10ℓ WATER (Agitate Thoroughly)</b>	<b>METHOD OF APPLICATION</b>
 <b>Ants</b>	<b>Home Garden</b>	<b>10mℓ</b>	<b>Pour mixture into ants nests, ensuring that soil is well wetted. Repeat if ants re-establish themselves.</b>
 <b>Northern Harvester Termites</b>	<b>Lawns</b>	<b>40mℓ</b>	<b>Apply to lawns at the 10ℓ spray per 200m<sup>2</sup>, to stop activity for several weeks. Repeat when activity is noticed again.</b>

PEST	LOCALITY	ADD TO 10L WATER (Agitate Thoroughly)	METHOD OF APPLICATION
 <p>Lawn Caterpillar</p>	Lawns	5mℓ	Apply to lawns by means of a watering can at a rate of 10 litres spray solution per 20m <sup>2</sup> , when infestation is noticed.
 <p>Cutworms</p>	Home Garden	5mℓ	A 10 litre spray is sufficient for 40m <sup>2</sup> . Spray evenly as a surface spray on damp soil prior to, or just after planting. A light sprinkling of water after spraying is beneficial.
 <p>American Bollworm</p>	Flowers, Ornamentals, Apples, Pears and Grapes	5mℓ	Spray at first sign of infestation. Ensure good coverage on all plant surfaces. Repeat when necessary.
 <p>Aphids</p>	Flowers & Ornamentals	10mℓ	Spray at first signs of infestation. Ensure good coverage above and below leaves. Repeat when necessary.
 <p>Australian Bug</p>	Flowers & Ornamentals	20mℓ	Spray when first signs of infestation are noticed. Direct spray at the insects using as high a pressure as possible to blow the egg sacks apart. Wet plant thoroughly.
 <p>Chafer Beetle</p>	Flowers & Ornamentals	5mℓ	Spray when first leaf damage is noticed. Roses & Hollyhock are good indicator plants. Beetles feed at night. Repeat when signs of feeding are observed on new leaves.

PEST	LOCALITY	ADD TO 10 L WATER	METHOD OF APPLICATION
 <p>Flower Beetles / Astylus</p>	Flowers & Ornamentals	10ml	Apply spray when beetles are first noticed, ensuring that flowers are well wetted. Roses and cannas are especially prone to attack. Repeat at 7 day intervals for as long as necessary.
 <p>Shorthorned Grasshoppers</p>	Flowers & Ornamentals	15ml	Spray at first sign of infestation. Repeat when necessary.
 <p>Black &amp; Yellow lily borer</p>	Flowers & Ornamentals	10ml	Spray at first sign of infestation. Thoroughly wet crown of plant as larvae hide and feed here. Repeat after 7 days if reinfestation occurs. Daffodils, Amaryllis, Agapanthus and many other bulbs are susceptible to attack.
 <p>Thrips</p>	Flowers & Ornamentals	10ml	Gladioli leaves assume a reddish brown speckled appearance when attack is severe. Pale marks appear on flowers which may not develop. Other plants infected include: Dahlia, Carnation & Daffodil.
 <p>White Fly</p>	Flowers & Ornamentals	10ml	Spray at first sign of infestation. Preferably before plants become sticky with honeydew or covered in sooty mould. Repeat weekly. Ensure good coverage of upper & lower leaf surfaces.

## **WARNINGS AND PRECAUTIONS**

### **WARNINGS:**

- Handle with care.
- Poisonous by contact, swallowing or inhalation.
- Toxic to fish.
- Relatively non-toxic to honey-bees.
- May cause skin irritation.
- Keep out of reach of children, animals and uninformed persons.
- Store in a cool place away from food and feed.
- Use of this material in a manner other than in accordance with directions, may injure plants or produce undesirable results.

### **PRECAUTIONS:**

- Do not inhale spray mist.
- Wear gloves when preparing the spray mixture.
- Wash clothing if contaminated.
- Wash immediately after accidental skin contact with soap and cold water.
- Do not eat, drink or smoke whilst applying, mixing of before washing hands and face.
- Prevent contamination of fish ponds, food, eating utensils and drinking water.
- Clean applicator thoroughly before re-using with other material.
- Dispose of wash water where it will not contaminate edible crops.

**KOMBAT ANTS** is classified CAUTION with blue band.

***PLEASE READ THE LABEL BEFORE USE.***



**CAUTION**



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Version: 1.2

Revision Date: December 2016




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**1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY UNDERTAKING:**
**PRODUCT INFORMATION**

**Product Name** : KOMBAT ANTS  
**Design Code** :  
**Registration No.** : L6188, Act No. 36 of 1947  
**Use** : Insecticide  
**Company** : Kombat (Pty) Ltd  
 39 Dr. Gordon Road  
 Greytown  
 3250  
  
**Telephone** : +27-33-417-1906/7

**Harmful****Dangerous for the environment****EMERGENCY TELEPHONE NUMBERS****SPILLAGES:**

Emergency telephone: +27-82-446-8946 (all hours)

**POISONING INCIDENTS:**

Poison Information Centre of the Western Cape: +27-861-555-777 (all hours)  
 Griffon Poison Information Centre +27-82-446-8946 (all hours)  
 UFS Pharmacology/Toxicology information centre: +27-82-491-0160

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**2. HAZARD IDENTIFICATION**

Note: Please refer to Section 11 for detailed toxicological information.

**Emergency Overview:** The active ingredient at high concentrations is highly toxic to fish and other aquatic organisms.  
**Physical State:** Liquid  
**Odor:** Characteristic of mineral spirits.  
**Appearance:** Off-white  
**Routes of Exposure:** Skin contact and absorption and vapor/mist inhalation.  
**Immediate Effects:**  
**Eye:** Corrosive – causes irreversible eye damage.  
**Skin:** Causes moderate skin irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Harmful if absorbed through skin.  
**Ingestion:** Fatal if swallowed.  
**Inhalation:** Harmful is inhaled.

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**3. COMPOSITION / INFORMATION ON INGREDIENTS****PRODUCT DESCRIPTION:**

For insect control on cotton.

Component Name	Deltamethrin		
CAS No	52918-63-5		
Concentration % by weight		Minimum	Maximum
		1.0%	
Inert ingredients, including aromatic Hydrocarbons (Trade Secrets)	90.0%		
N-Methyl-pyrrolidone			< 15.0%
CAS No	872-50-4		

**4. FIRST- AID MEASURES**

**Eye:** Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention.

**Skin:** Wash with plenty of soap and water. Seek medical attention.

**Ingestion:** Call a doctor or get medical attention. Do not induce vomiting because aspiration hazard. Do not give anything by mouth to an unconscious person. Avoid alcohol.

**Inhalation:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention.

**Note to Physician:** Probable muscular damage may contraindicate the use of gastric lavage.

**5. FIRE-FIGHTING MEASURES**

**Flash Point:** 172°F / 78° C  
Test type: Closed Cup

**Extinguishing Media:**

For small fires: use dry chemical, carbon dioxide (CO<sub>2</sub>)

For large fires, use foam, water, move containers from fire area if within risk. Cool containers with water from maximum distance.

**Fire Fighting Instructions:**

Keep upwind. Isolate hazard area. Avoid inhalation of smoke and fumes. Use water or foam to reduce fumes. Do not touch spilled material. Avoid release of extinguishing water into the environment.

**6. ACCIDENTAL RELEASE MEASURES****General and Disposal:**

Use proper protective equipment to minimize personal exposure (See section 8). Take all necessary action to prevent and to remedy the effects of the spill. Ensure that the disposal is in compliance with Federal or local disposal regulations. Notify the appropriate authorities immediately. See Section 13 for any applicable Reportable Quantity (RQ) and other federal regulatory information. Report immediately to

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authorities if liquid enters watercourse or sewer.

### Land Spill and Leaks:

Combustible liquid. Do not touch spilled material. Take up with sand, earth or other non-combustible absorbent material or dike for later disposal. Avoid flame or sparks.

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## 7. HANDLING AND STORAGE

### Handling:

Avoid breathing spray mist. Do not get in eyes, on skin, or on clothing. Do not use near heat or open flame.

### Storage:

Do not use or store near heat or open flame. Do not contaminate water, food, or feed by storage or disposal.

### Work/ Hygienic Procedures:

Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

For additional handling precautions, refer to the Product Label for "User Safety Recommendations", as defined by the EPA Worker Protection Standard (40 CFR part 170)

### Min/Max Storage Temperatures:

Do not store over 40°C or below 0°C

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## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

### Engineering Controls:

Control airborne concentrations below the exposure guidelines. Local exhaust ventilation may be necessary, when used in a confined area.

### Eye/Face Protection:

Protective eyewear, goggles or face-shield.

### Body Protection:

Chemical-resistant gloves such as barrier laminate or viton.

### Respiratory Protection:

When ventilation is inadequate wear either a respirator with an organic vapor-removing cartridge with a pre-filter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number 14G)

### AGRICULTURAL USES:

The following personal protective equipment (PPE) must be worn when using product or upon early entry into treated areas during the Restricted Entry Interval (REI):

- Overalls over short-sleeved shirts and short pants
- Chemical-resistant gloves such as barrier laminate or viton
- Chemical-resistant footwear plus socks

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- Protective eyewear
- Chemical-resistant headgear for overhead exposure

**Exposure Limits:**N-Methyl-pyrrolidone    872-50-4    WEEL TWA    10 ppm 40mg/m<sup>3</sup>**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Form</b>	: Liquid
<b>Color</b>	: Off-white
<b>Odor</b>	: Characteristic of mineral spirits
<b>Bulk Density ( g/ml)</b>	: 8.99 lbs/gallon
<b>Flash point</b>	: 179°F / 78°C
<b>Solubility</b>	: Dispersible
<b>pH</b>	: 4.8
<b>Specific Gravity</b>	: 1.08

**10. STABILITY AND REACTIVITY****Chemical Stability:**

Stable

**Hazardous Polymerization (Conditions to avoid):**

Will not occur

**11. TOXICOLOGICAL INFORMATION**

<b>Acute Oral Toxicity:</b>	Rat: LD50: 42.9 mg/kg.	Highly Toxic
<b>Acute Dermal Toxicity:</b>	Rat: LD50: >2000 mg/kg	Slightly toxic
<b>Acute Inhalation Toxicity:</b>	Rat: LC50: 0.57 mg/l 4 h	Moderately Toxic
<b>Skin Irritation:</b>	Rabbit: Moderately irritating	
<b>Eye Irritation:</b>	Rabbit: Corrosive – causes irreversible eye damage	
<b>Sensitization:</b>	Guinea pig: Weakly sensitizing	

THE FOLLOWING DATA WERE DEVELOPED FOR: Deltamethrin Technical, the active ingredient.

**Chronic Toxicity:**

In a 2-year feeding study in mice, deltamethrin was found to not be oncogenic at levels up to 12 mg/kg (male) and 15 mg/kg (female)

**Assessment Carcinogenicity:**

<b>ACGIH</b>	<b>None</b>
<b>IARC</b>	<b>Category 3</b>
<b>OSHA</b>	<b>None</b>



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## Teratogenicity:

Deltamethrin was not teratogenic to rats or rabbits.

## Mutagenicity:

Deltamethrin was non-genotoxic in a battery of *in vitro* and *in vivo* genotoxicity assays.

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## 12. ECOLOGICAL INFORMATION

### Acute and Prolonged:

Deltamethrin Technical

Toxicity to Fish: Fish :LC50: 0.001-0.01 mg/l: Extremely Toxic

### Environmental Precautions:

This pesticide is extremely toxic to fish and other aquatic organisms, including crab and shrimp. Use with care when applying in areas adjacent to any body of water. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Drift or runoff from treated fields may kill fish and other aquatic organisms. Do not contaminate water by cleaning of equipment or disposal of equipment wastewaters.

This product is highly toxic to bees exposed to direct treatment.

Do not apply it, or allow it to actively drift, to crops or weeds on which bees are foraging.

### Ecological Information:

Notify state authorities and Kombat immediately if you observe any adverse environmental effects due to the use of Kombat Ants.

NOTICE: It is an offense to use any pesticide in a manner that results in the death of any wildlife species.

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## 13. DISPOSAL CONSIDERATIONS

### General Disposal Guidance:

Any disposal practice must be in compliance with all national, provincial and local laws and regulations. Provincial and local requirements for waste disposal may be more restrictive or otherwise different from national laws and regulations. Chemical additions, processing, storage, or otherwise altering this material may make the waste disposal information presented in this SDS incomplete, inaccurate or otherwise inappropriate. Waste characterization and disposal compliance are the responsibility solely of the party generating the waste of deciding to discard or dispose of the material.

Refer to appropriate national provincial, or local requirements for proper classification information. For regulatory information on the ingredient components, see Section 15.

Pesticide disposal: Do not contaminate water, food or feed by disposing the product irresponsibly. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of national law. If these wastes cannot be disposed of by use according to label instructions, contact a hazardous waste company for guidance.

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## Container Disposal:

Empty containers should be triple rinsed into the spray tank during operation, then punctured and disposed of via a registered plastic recycler. Empty containers may not be burned or buried.

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## 14. TRANSPORT INFORMATION

PROPER SHIPPING NAME: Pesticides, liquid, toxic, N.O.S. (Deltamethrin), 6.1, UN 2902, PG II, \*

\* Insert total net volume

WHO Classification: Category III CAUTION

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## 15. REGULATORY INFORMATION

### International Regulations

#### EU Classification

Deltamethrin

R Phrases

Toxic Dangerous for the environment

Also toxic by inhalation and if swallowed. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S Phrases

Keep locked-up and out of the reach of children. Avoid contact with skin, wash immediately with plenty of water. Wear suitable protective clothing. Gloves and eye/face protection. In case of insufficient ventilation, wear suitable respiratory equipment. In case of accident or if you feel unwell, seek medical advice immediately (Show label where possible). This material and release to the environment. Refer to special instructions/ safety data sheets.

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## 16. OTHER INFORMATION

**Usage:** A broad spectrum insecticide

**ANTS is the property of KOMBAT (Pty) Ltd.**

**Read the label before use or buy.**

Disclaimer:

Read the label before use or buy.

**All information is given in good faith but without guarantee in respect of accuracy, and no responsibility is accepted for errors or omissions or the consequence thereof.**

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**This document is intended only as a guide to the appropriate handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for the particular purpose. KOMBAT (Pty) Ltd. make no representation or warranties, either express or implied, including without limitation any warranties of merchant ability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. According KOMBAT (Pty) Ltd will not be responsible for damages resulting from the use of or reliance upon this information.**

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