

**KOMBAT ANTS RTU**

Version: 1.2

Revision Date: December 2016



## 1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY UNDERTAKING:

### PRODUCT INFORMATION

**Product Name** : KOMBAT ANTS RTU  
**Design Code** :  
**Registration No.** : L8991, 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

## 2. HAZARD IDENTIFICATION

### Main Hazard:

May cause sensitization by skin contact.  
 May cause temporary itching, tingling, burning or numbness of exposed skin, called paresthesia.

### Flammability:

Not flammable.

### Chemical Hazard:

None

### Biological Hazard:

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### Potential Acute Health Effects:

#### Eyes:

Mild irritation

#### Skin:

Slight irritation

#### Inhalation:

Harmful by inhalation.

#### Ingestion:

Harmful by ingestion.

### Potential Chronic Health Effects:

See Section 11.

### Medical Conditions Aggravated by Over-exposure:

None

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**Over-exposure Signs/Symptoms:** Over exposure to the skin can cause itching, tingling, burning or numbness.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Hazardous Components	g/l	EEC Classification:	R Phrases:
<b>Common Name:</b>	lambda-cyhalothrin 0.6 g/l	Xn, N	R21,R25,R26,R50/53
<b>Chemical Name(IUPAC):</b>	A reaction product compromising equal quantities of (S)alpha-cyano-3-phenoxybenzyl(Z)-1R,3R)-3-(2-chloro-3,3,3-trifluoroprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate and R-alpha-cyano-3-phenoxybenzyl(Z)-1S,3S)-3-(2-chloro-3,3,3-trifluoroprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate		
<b>Chemical Family:</b>	Pyrethroid		
<b>Chemical Abstract No.:</b>	91465-08-6		
<b>EC No.:</b>	415-130-7		
<b>RTECS No.:</b>	GZ1227780		
<b>Hazard Class:</b>	9		
<b>UN No.:</b>	3082		

**4. FIRST- AID MEASURES**

<b>Eye Contact:</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses.
<b>Skin Contact:</b>	Immediate medical attention is required. Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.
<b>Inhalation:</b>	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or poison information centre immediately.
<b>Ingestion:</b>	If patient is conscious, wash out mouth with water.
<b>Medical Advice:</b>	Skin contact paresthesia effects (itching, tingling, burning or numbness) are transient, lasting up to 24 hours. Treat symptomatically. Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.

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**5. FIRE-FIGHTING MEASURES****Special Hazards:**

None. The product is water based.

**Flammable Limits (in air by volume)**

Not applicable.

**Suitable extinguishing media:**

Note the product contains water and cannot burn.

**Extinguishing media - small fires**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Extinguishing media - large fires**

Alcohol-resistant foam or water spray.

**Extinguishing media which must not be used for safety reasons:**

Do not use a solid water stream as it may scatter and spread fire.

**Specific hazards during fire fighting:**

Exposure to decomposition products may be a hazard to health.

**Special protective equipment for fire-fighters:**

Wear full protective clothing and self-contained breathing apparatus.

**Important:**

Do not allow run-off from firefighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

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**6. ACCIDENTAL RELEASE MEASURES****Personal Precautions:**

Refer to protective measures listed in sections 7 and 8.

**Environmental Precautions:**

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

**Methods for cleaning up:**

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

**Additional advice:**

If the product contaminates rivers and lakes or drains inform respective authorities.

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**7. HANDLING AND STORAGE****Advice on safe handling:**

No special protective measures against fire required. Avoid contact with skin and eyes. When using, do not eat, drink or smoke.

For personal protection see section 8.

**Requirements for storage areas and containers:**

No special storage conditions required. Keep containers tightly closed in a dry, cool and well-ventilated place.

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Keep out of the reach of children.

Keep away from food, drink and animal feeding stuffs.

**Other Data:**

Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.

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**8. EXPOSURE CONTROL / PERSONAL PROTECTION****Occupational Exposure Limits** lambda-cyhalothrin; 8 h TWA 0.04 mg/m<sup>3</sup>.**TWA:****Ventilation and Engineering Controls:**

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use.

If airborne mists or vapors are generated, use local exhaust ventilation controls.

Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit.

Where necessary, seek additional occupational hygiene advice.

**Respiratory Protection:**

A combination gas, vapor and particulate respirator may be necessary until effective technical measures are installed. Protection provided by air-purifying respirators is limited.

Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.

**Eye Protection:**

Eye protection is not usually required.

Follow any site specific eye protection policies.

**Hand Protection:**

Chemical resistant gloves should be used.

Gloves should be certified to an appropriate standard. Gloves should have a minimum breakthrough time that is appropriate to the duration of exposure.

The breakthrough time of gloves varies according to the thickness, material and manufacturer.

Gloves should be changed when breakthrough is suspected.

Suitable material: Nitrile rubber

**Skin and Body Protection:**

Assess the exposure and select chemical resistant clothing based on the potential for contact and the permeation / penetration characteristics of the clothing material.

Wash with soap and water after removing protective clothing.

Decontaminate clothing before re-use, or use disposable equipment (suits, aprons, sleeves, boots, etc.)

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Light off-white liquid.
<b>Odour:</b>	Slight aromatic solvent.
<b>pH:</b>	7.34
<b>Boiling Point:</b>	N/A
<b>Melting/Freezing Point:</b>	N/A
<b>Flash Point:</b>	Not applicable.
<b>Flammability:</b>	Not flammable.
<b>Viscosity:</b>	90 mPa/S [Spindle 1 speed 12]
<b>Density:</b>	1.00 g/ml
<b>Solubility – Water:</b>	Will mix with water.
<b>KowLogP:</b>	7 at 20 °C

**10. STABILITY AND REACTIVITY**

<b>Hazardous Decomposition Products:</b>	Combustion or thermal decomposition will evolve toxic and irritant vapours.
<b>Hazardous reactions:</b>	Hazardous polymerization does not occur. Stable under normal conditions.
<b>Conditions to avoid:</b>	None known.

**11. TOXICOLOGICAL INFORMATION**

<b>Acute Toxicity:</b>	LD50 Rat, > 5,000 mg/kg
<b>Acute dermal toxicity:</b>	LD50 Rat, > 4,000 mg/kg
<b>Inhalation:</b>	LC50 Rat, > 4.62 mg/l, 4 h
<b>Skin irritation:</b>	Rabbit: Slightly Irritating May cause temporary itching, tingling, burning or numbness of exposed skin, called paresthesia.
<b>Skin Sensitization:</b>	Likely to cause skin sensitization.
<b>Eye irritation:</b>	Rabbit: Mild eye irritation
<b>Carcinogenicity:</b>	None
<b>Mutagenicity:</b>	None
<b>Reproductive Hazard:</b>	None
<b>Neurotoxicity:</b>	None

**12. ECOLOGICAL INFORMATION**

<b>Avian Toxicity:</b>	Not toxic to birds. Mallard Duck LD50 Oral > 3950 mg/kg
<b>Aquatic Toxicity - Fish</b>	LC50 <i>Oncorhynchus mykiss</i> (rainbow trout), 4 µg/l Derived from components.

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<b>Aquatic Toxicity:</b>	EC50 <i>Daphnia magna</i> (Water flea), 4 µg/l, 48 h
<b>Aquatic Toxicity – algae:</b>	ErC50 <i>Pseudokirchneriella subcapitata</i> (green algae), > 10 mg/l, 96 h EbC50 <i>Pseudokirchneriella subcapitata</i> (green algae), > 10 mg/l, 96 h
<b>Bee Toxicity:</b>	Toxic to bees. Bee (Contact) LD50 0.038 µg/bee
<b>Bio-degradability:</b>	There is evidence of rapid hydrolysis in soil. There is evidence of photo degradation in soil. There is evidence of rapid biodegradation in soil and water.
<b>Bio-accumulation:</b>	Lambda-cyhalothrin bio-accumulates.
<b>Mobility:</b>	Lambda-cyhalothrin is immobile in soil and will not leach.
<b>Stability in soil:</b>	Lambda-cyhalothrin is not persistent in soil.
<b>Stability in soil:</b>	Lambda-cyhalothrin is not persistent in water.

**13. DISPOSAL CONSIDERATIONS**

<b>Disposal Methods:</b>	Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.
<b>Disposal Packaging:</b>	Empty remaining contents. Triple rinse containers. Empty containers should be taken for local recycling or waste disposal. Do not re-use empty containers.

**14. TRANSPORT INFORMATION**

<b>UN No.:</b>	3082
<b><u>Rail/Road (ADR/RID)</u></b>	
<b>ADR/RID Shipping Name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(LAMBDA-CYHALOTHRIN)
<b>ADR/RID Class:</b>	9
<b>ADR/RID classification code:</b>	M6
<b>ADR/RID Packaging Group:</b>	III
<b>ADR/RID Hazard Identity No.:</b>	90
<b>ADR/RID CEFIC Tremcard No.:</b>	90GM6-III
<b><u>Sea (IMDG-Code)</u></b>	
<b>IMDG Shipping Name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LAMBDA-CYHALOTHRIN)
<b>IMDG Class:</b>	9
<b>IMDG Packaging Group</b>	III
<b>IMDG Marine Pollutant:</b>	Yes

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**Air (ICAO/IATA)**

<b>IATA Shipping Name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LAMBDA-CYHALOTHRIN)
<b>IATA Class:</b>	9
<b>IATA Subsidiary risk(s):</b>	None
<b>ADNR Class:</b>	9
<b>UK Description:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LAMBDA-CYHALOTHRIN)
<b>UK Classification</b>	9
<b>Tremcard No.:</b>	90GM6-III

**15. REGULATORY INFORMATION**

<b>Hazard</b>	Xn	Harmful
<b>Classification:</b>	N	Dangerous for the environment
<b>Risk Phases:</b>	R20 Harmful by inhalation. R43 May cause sensitization by skin contact. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	
<b>Safety Phases:</b>	S 2 Keep out of the reach of children. S13 Keep away from food, drink and animal feeding stuffs. S20/21 When using do not eat, drink or smoke. S35 This material and its container must be disposed of in a safe way. S57 Use appropriate container to avoid environmental contamination	
<b>National Legislation:</b>	In accordance with the South African National Road Traffic Act, 1996 (Act 93 of 1996), the Fire Brigade Act, 1987 (Act 99 of 1987) and the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993).	

**16. OTHER INFORMATION**

Risk phrases mentioned in Section 2 (For active only). Not applicable to this formulation.

R21 Harmful in contact with skin

R25 Toxic if swallowed.

R26 Very toxic by inhalation.

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### EXCLUSION OF LIABILITY

The information stated above is issued from the producer information of the product. It does not contain any guarantee for special properties. It is important that the persons using the above product are informed of the exact laws and regulations, and the product is used according to these and for no other purpose than it was supplied for.

The information herein is supplied in good faith, but no warranty, explicit or implicit is made. The information in this sheet has been assembled by the manufacturers based on their studies and on the work of others. The manufacturers and suppliers make no warranties, expressed or implied as to the accuracy, completeness or adequacy of the information contained herein. The manufacturers and suppliers shall not be liable to the vendee, the vendee's employees, or anyone for any direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy, or furnishing of such information.

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