

MATERIAL SAFETY DATA SHEET

BUNGY 1.5 SC

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product name : BUNGY 1.5 SC
Chemical name of active ingredient(s) : [1R-[1 α (S*),3 α]]-cyano(3-phenoxyphenyl)methyl 3-(2,2-dibromoethenyl)-2,2-dimethylcyclo-propanecarboxylate (CA).
Chemical formula : Deltamethrin: C₂₂H₁₉Br₂NO₃.
EU Cat. No. : 258-256-6
Code no. : R-10256
Manufacturer : Makhteshim Chemical Works, Ltd.
P.O.B. 60, Beer Sheva 84100, Israel.
Fax no.: 972-8-6296848-(364)
Emergency telephone number : 972-3-6106666
Subscription no.: 36789 (MAKHTESHIM)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation : Preparation.

Information on hazardous ingredients *

Common name	CAS No.	%	EC Number	Symbol	R-Phrases
Deltamethrin	52918-63-5	1.50	258-256-6	T, N	R23/25-50/53

* *Occupational Exposure Limit(s), if available, are listed in section 8*

3. HAZARDS IDENTIFICATION

Human health hazards : Not hazardous.

4. FIRST-AID MEASURES

Effects and symptoms

Eye contact : Redness, tears.

First-aid measures

Inhalation : Remove victim to fresh air. Keep victim warm and at rest.
If breathing is difficult: give oxygen.
If not breathing: apply artificial respiration
Get medical attention.

Ingestion : Induce vomiting. Never give anything by mouth to an unconscious person. Wash out mouth with water. Get medical attention.

Skin contact : Remove contaminated clothing. Wash off with plenty of water and soap. Consult a doctor in the event of any complaints.

Eye contact : Wash off with plenty of water for at least 15 minutes. Immediately consult an eye specialist.

Notes to a physician : There is no specific antidote. Treat symptomatically and give supportive therapy.
If ingested perform gastric lavage and administer activated charcoal.

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5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable

: Not flammable. If involved in fire: Use extinguishing media suitable for the burning substance - Water spray, fog or regular foam.

Special fire-fighting procedures

: Fight fires from a protected location. Move containers away from fire without risk. Dike fire control water for later disposal. Cool exposed containers with water spray.

Hazardous thermal (de)composition products

: CO, CO₂, NO_x, HBr and Bromides.

Protection of fire-fighters

: Wear suitable protective clothing. Self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

: Use appropriate protection (see section 8). During cleaning activity, shut off ignition sources

Environmental precautions

: Dispose of this material and its container at hazardous or special waste collection point. If the product has contaminated surface water, inform the appropriate authorities. Contaminated soil layers have to be dug out.

Methods for cleaning up

: In the event of minor spillage: Absorb in sand or other inert material. Use appropriate containment to avoid environmental contamination.

In the event of major spillage: Collect and contain as much free liquid as possible. Dike spills using absorbent or impervious materials such as sand or clay for later disposal.

7. HANDLING AND STORAGE

Handling

: Do not breathe fumes.
Avoid contact with skin and eyes.

Storage

: Keep locked up. Keep container tightly closed. Keep only in the original container in a cool, well-ventilated place (<50°C). Keep container dry.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures

: Ventilation required. Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.

Hygiene measures

: Wash hands thoroughly after handling. Wash clothing separately before re-use.

Occupational Exposure Limits

Common name

: **Deltamethrin**

TLV (USA)

: Not established.

Personal protective equipment

Respiratory system

: During spraying wear suitable respiratory equipment.

Skin and body

: Wear suitable protective clothing and chemical resistant boots.

Hands

: Wear suitable gloves.

Eyes

: Safety goggles or face shield.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Liquid (aqueous solution)
Colour	: Off-white
Odour	: Characteristic odour.
Molecular weight	: Deltamethrin: 505.22.
Melting point	: Deltamethrin: 98-102°C.
Specific gravity (H ₂ O=1)	: 0.95 - 0.97
Solubility in water	: Deltamethrin: 2 ppb.
pH	: 4.6

10. STABILITY AND REACTIVITY

Stability	: Stable under normal conditions.
Conditions to avoid	: Protect from (sun)light, open flame and sources of heat. Decomposes upon heating.
Materials to avoid	: Avoid contact with: strong acids and strong bases.
Hazardous reactions	: Hazardous polymerization will not occur.
Hazardous decomposition products	: CO, CO ₂ , NO _x , HBr and Bromides.

11. TOXICOLOGICAL INFORMATION

Acute toxicity - Oral	: male rat: LD ₅₀ = 22,700 mg/kg female rat: LD ₅₀ = 22,000 mg/kg
Acute toxicity - Dermal	: LD ₅₀ > 2000 mg/kg, (rat)*
Acute toxicity - Inhalation	: Not applicable
Skin irritation	: Not irritating to skin (rabbit).
Eye irritation	: Not irritating to eyes (rabbit).
Sensitization	: Guinea pig maximization test: Non sensitizer.

* for Deltamethrin Technical.

<u>Common name</u>	: Deltamethrin
Carcinogenicity	: Not carcinogenic.

12. ECOLOGICAL INFORMATION

Ecotoxicity	: For Deltamethrin Tec. (98%):
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<u>Common name</u>	: Deltamethrin
Ecotoxicity	: <u>Birds:</u> LD ₅₀ > 5000 mg/kg (mallard duck). LC ₅₀ = 10000 mg/kg (bobwhite quail). <u>Fish:</u> LC ₅₀ = 0.001-0.01 mg/l.

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13. DISPOSAL CONSIDERATIONS

Methods of disposal : Disposal according to the local legislation.

14. TRANSPORT INFORMATION

Not classified.

UN number : Not applicable.

National transport regulations

No additional national transport regulations are known to the supplier

15. REGULATORY INFORMATION

Classification : Not classified.

Contains : 15.1 g/l Deltamethrin (1.5%)

16. OTHER INFORMATION

Recommended use : Insecticide.

The information contained in the Safety Data sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be suitable for combinations with other materials or in processes other than those specifically described herein.

HISTORY

Date of printing : 03/04/2004

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Date of issue : 09/14/2003

Version : 002.00.00

The version-number is made up of three parts; part 1 is a general information code, part 2 a country-specific code and part 3 a language-specific code

Leaflet

BUNGY 15 SC

Reg. No. L 7461 Act No. 36 of 1947

A suspension concentrate contact insecticide with a residual action for the control of Ants, bedbugs, cockroaches, fishmoths, flies and mosquitoes in domestic and industrial premises and animal dwellings.

ACTIVE INGREDIENT:

deltamethrin (pyrethroid).....15 g / ℓ

REGISTRATION HOLDER:

Makhteshim-Agan SA (Pty) Ltd

Reg. No. 1992/001741/07

21 Viben Street

Brackenfell

7560

Tel: (021) 982 1460

CAUTION

WARNINGS:

- Handle with care.
- Harmful if swallowed, inhaled or absorbed through the skin.
- May cause irritation of the skin, eyes, mucous membranes and may cause skin sensitization.
- Toxic to fish, bees and wild life.
- Do not spray over food or feed or surfaces where food is prepared, eaten or stored.
- Store in a cool, dry place away from food and feed.
- Keep out of reach of children, uninformed persons and animals.
- **Re-entry interval:** Do not allow humans or animals to come into contact with treated area before the spray has thoroughly dried.
- Do not use as a space treatment.

Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be efficacious under all conditions because the action and effect thereof may be affected by factors such as abnormal climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the pest to the remedy concerned, as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, the environment or harm to man or animal, or for lack of performance of the remedy concerned due to failure of the user to follow the label instructions, or to the occurrence of conditions which could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.

PRECAUTIONS:

- Do not use in the presence of persons with known sensitivity to pyrethroids. In the case of signs of sensitivity, obtain medical advice.

- Do not eat, drink or smoke while handling this product or before washing hands and face and changing clothing.
- Prevent contamination of food, feed, drinking water and eating utensils.
- Wear rubber gloves and a face shield when handling the concentrate and during application. If you get it in your eyes flush it out at once. If you get it on your skin wash it off immediately. If you spill it on your clothes, take it off immediately and wash it.
- Cover fish tanks and remove all pets from the area to be treated.
- Do not spray over electrical equipment, sockets, switches or electrical motors.
- Do not touch or walk over treated areas before spray is completely dry.
- Empty the container over the spray tank and allow to drain for at least 30 seconds after the flow has slowed down to a drip. Rinse the container three times with a volume of water of at least 10 % of that of the container. Add the rinsings to the spray tank before destroying the empty container by perforating and flattening.
- Never use the empty container for any other purpose.

Resistance warning:

For resistance management, **BUNGY 15 SC** is a group code 3 A insecticide. Any insect population may contain individuals naturally resistant to **BUNGY 15 SC** and other group code 3 A insecticides. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly. These resistant insects may not be controlled by **BUNGY 15 SC** or any other group code 3 A insecticide.

To delay insecticide resistance:

- Avoid exclusive repeated use of insecticides from the same insecticide group code. Alternate or tank-mix with products from different insecticide group codes.
- Integrate the control methods (chemical, cultural, biological) into insect control programmes.

For specific information on resistance management contact the registration holder of this product.

DIRECTIONS FOR USE: Use only as indicated.

BUNGY 15 SC can be used indoors as well as outdoors for a variety of insects as indicated.

Mixing instructions:

Shake the concentrate well before use. Half fill the applicator with water. Add the required volume of **BUNGY 15 SC** to the applicator while agitating. Fill the applicator with water to the required mark while agitating continuously.

Application:

BUNGY 15 SC can be applied by any suitable sprayer which is able to distribute the spray mixture evenly and effectively over the target area.

APPLICATION RATES:

PEST	DOSAGE	REMARKS
Ants, Bedbugs, cockroaches and fishmoths	120 ml / 5 ℓ water	Apply as a coarse spray at the rate of 100 ml spray mixture / m ² or 5 ℓ spray mixture / 100 m ² or apply to just before the point of run off which will vary with the nature of surface being treated. Treat skirtings, walls, cupboards, around electrical appliances or wherever insects are seen. Pay special attention to cracks and crevices. For the control of ants spray a broad band outside around buildings also and treat active nests.
House flies	120 ml / 5 ℓ water	Apply in and around animal housing. Ensure that the spray does not come into contact with the animals. Apply 5 ℓ spray mixture as a coarse spray / 100 m ² or apply to just before the point of run off which will depend on the nature of the surface being treated. Since outside surfaces are more exposed to climatic conditions, the residual action might be shorter than inside.
Mosquitoes	120 ml / 5 ℓ water	Apply as a coarse spray on walls and ceilings. Ensure that a thorough wetting of surfaces like concrete or mud is obtained.

SEE ENCLOSED LEAFLET FOR FULL
PARTICULARS

SIEN INGESLOTE VOUBILJET VIR VOLLE
BESONDERHEDE



Display Carton / Uitstalkarton

BUNGY 15 SC

Reg. No./Nr. L 7461 Act No./ Wet Nr. 36 of / van 1947

A suspension concentrate contact insecticide with a residual action for the control of Ants, bedbugs, cockroaches, fishmoths, flies and mosquitoes in domestic and industrial premises and animal dwellings.

'n Suspensiekonsentraat kontak insekdoder met 'n nawerkende aksie vir die beheer van kakkerlakke, miere, muskiete, vismotte, vlieë en weeluise in huishoudelike- en industriële persele en dierehokke.

IRAC INSECTICIDE GROUP CODE

3 A

IRAC INSEKDODERGROEPKODE

ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL:

deltamethrin (pyrethroid).....15 g / λ.....deltametrien (piretroïed)

NETT VOLUME / NETTO VOLUME

.....ml/ℓ

REGISTRATION HOLDER / REGISTRASIEHOUER:

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Batch number

.....

Lotnommer

Date of manufacture

.....

Datum van vervaardiging



**CAUTION
VERSIGTIG**



CLASS III

Blue band