Conforms to 93/112/EC and ISO 11014-1

MATERIAL SAFETY DATA SHEET BUNGY 1.5 SC

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

Product name

: BUNGY 1.5 SC

Chemical name of active

: $[1R-[1\alpha(S^*),3\alpha]]$ -cyano(3-phenoxyphenyl)methyl

ingredient(s)

3-(2,2-dibromoethenyl)-2,2-dimethylcyclo-propanecarboxylate (CA).

Chemical formula

: Deltamethrin: C₂₂H₁₉Br₂NO₃.

EU Cat. No.

: 258-256-6 : R-10256

Code no. Manufacturer

: Makhteshim Chemical Works, Ltd. P.O.B. 60, Beer Sheva 84100, Israel.

Fax no.: 972-8-6296848-(364)

Emergency telephone

: 972-3-6106666

number

Subscription no.: 36789 (MAKHTESHIM)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation

: Preparation.

Common name

Information on hazardous ingredients *

Common

CAS No.

%

EC Number

Symbol

R-Phrases

Deltamethrin

52918-63-5 1.50

258-256-6

T, N R23/25-50/53

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

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FIRE-FIGHTING MEASURES 5.

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

Protection of fire-fighters

: CO, CO2, NOx, HBr and Bromides.

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

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

7. HANDLING AND STORAGE

Handling

: Do not breathe fumes.

Avoid contact with skin and eyes.

sand or clay for later disposal.

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.

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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PHYSICAL AND CHEMICAL PROPERTIES 9.

Physical state

: Liquid (aqueous solution)

Colour

: Off-white

Odour

: Characteristic odour.

Molecular weight

: Deltamethrin: 505,22.

Melting point

: Deltamethrin: 98-102°C.

Specific gravity (H₂O=1)

: 0.95 - 0.97

Solubility in water

: Deltamethrin: 2 ppb.

рΗ

: 4.6

STABILITY AND REACTIVITY 10.

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, CO2, NOX, HBr and Bromides.

TOXICOLOGICAL INFORMATION

Acute toxicity - Oral

 $LD_{50} = 22,700 \text{ mg/kg}$: male rat:

female rat: $LD_{50} = 22,000 \text{ mg/kg}$

Acute toxicity - Dermal

: $LD_{50} > 2000 \text{ mg/kg, (rat)*}$

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.

Common name

: Deltamethrin

Carcinogenicity

: Not carcinogenic.

ECOLOGICAL INFORMATION

Ecotoxicity

: For Deltamethrin Tec. (98%):

Common name

: Deltamethrin

Ecotoxicity

LD₅₀ > 5000 mg/kg (mallard duck). LC_{50} = 10000 mg/kg (bobwhite quail).

: Birds:

 $LC_{50} = 0.001-0.01 \text{ mg/l}.$

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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

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

Date previous issue

: 03/31/2003

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

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