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Infosafe No. 3NU6U Issue Date: May 2006 ISSUED by CRPCARE

Product Name: MATADOR with Zeon Technology Insecticide

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name MATADOR with Zeon Technology Insecticide

Product Code 1082

Company Name Crop Care Australasia Pty Ltd (ABN 53 061 362 347)

Address Unit 15/16 Metroplex Avenue Murarrie

Queensland 4172 Australia

Emergency Tel. 1800 033 498

Telephone/Fax Number Tel: (07) 3909 2000 Fax: (07) 3909 2010

Recommended Use For the control of certain insect pests in cotton, barley, wheat and other field crops, and in oranges, lemons, brassicas, potatoes and tomatoes as per

the Directions for Use table on the label.

Other Information This MSDS describes, to the best of our knowledge, the properties of the

concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be

much less severe.

2. HAZARDS IDENTIFICATION

Hazard HAZARDOUS SUBSTANCE.

Classification DANGEROUS GOODS.

Hazard classification according to the criteria of NOHSC.

Dangerous goods classification according to the Australia Dangerous Goods

Code.

Risk Phrase(s) R25 Toxic if swallowed.

Safety Phrase(s) S1/2 Keep locked up and out of reach of children.

S13 Keep away from food, drink and animal feeding stuffs.

S24 Avoid contact with skin.

\$37/39 Wear suitable gloves and eye/face protection.

S45 In case of accident or if you feel unwell seek medical advice immediately

Other Information Poisons Schedule S6

Liquid

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization

Characterization

Ingredients Name

Name <u>CAS</u> <u>Proportion</u>

Lambda-cyhalothrin 91465-08-6 250 g/L Other ingredients >60% (considered

(considered non-hazardous)

4. FIRST AID MEASURES

Inhalation Remove affected person to fresh air until recovered.

If symptoms develop or persist, seek medical advice.

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Ingestion

Rinse mouth and then drink plenty of water.

If swallowed do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26 (Aust). Make every effort to prevent vomit from entering the lungs by careful

placement of the patient.

The above first aid instructions are mandated by the Commonwealth Department of Health and Aged Care via the National Drugs and Poisons Schedule. These instructions are suitable for ingestion of spray solution and small amounts of concentrate; however, if SUBSTANTIAL AMOUNTS of the concentrate have been swallowed (more than about 10ml) AND if medical assistance is more than 30 minutes away, the induction of vomiting should be CONSIDERED, preferably based on MEDICAL ADVICE if a physician can be contacted by phone. All care must be taken to prevent vomit from being inhaled. Do not give anything by mouth to a

semi-conscious or unconscious person.

Skin Wash affected areas thoroughly with soap and water.

Remove contaminated clothing and launder before re-use.

Obtain medical advice immediately.

Eye If in eyes, hold eyelids open and wash with copious amounts of water for at

least 15 minutes.
Seek medical advice.
Treat symptomatically.

In cases of skin contact, application of Vitamin E cream has been found to

have very high therapeutic value.

5. FIRE FIGHTING MEASURES

Suitable

Advice to Doctor

If involved in a fire, the product will not burn. Choose extinguishing media

Extinguishing Media to suit the burning material.

Hazards from Combustion

Products

If involved in a fire, the dehydrated components may emit oxides of carbon, oxides of nitrogen and minor quantities of hydrogen chloride and hydrogen

fluoride.

Speical Protective Equipment for fire

Breathable air apparatus must be worn when fighting a fire in which this

product is involved.

fightors

fighters Specific Hazards

Considered low risk due to water content, however upon evaporation of water

the product is combustible.

Hazchem Code 22

6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal

Contain spill and absorb with clay, sand, soil or proprietary absorbent (such

as vermiculite).

Collect spilled material and waste in sealable open-top type containers for

disposal.

Personal Protection

For appropriate personal protective equipment (PPE), refer Section 8.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Do NOT contaminate dams, rivers or streams, or any other water bodies with

chemical or used containers.

Conditions for Safe Storage Store in the closed, original container in a cool, well ventilated area.

Do not store for prolonged periods in direct sunlight.

Store in a locked enclosure.

Keep container tightly sealed and do not store with seed, fertilisers or

foodstuffs.

Other Information Always read the label and any attached leaflet before use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards No exposure standard has been established for this product.

The manufacturer has recommended the following exposure standard for

lambda-cyhalothrin: TLV (TWA) 0.04 mg/m3, STEL - mg/m3 SK.

'SK' notice - absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.

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Engineering Handle in well ventilated areas, generally natural ventilation is adequate.

Controls

Personal Protective When opening the container, preparing spray and using the prepared spray wear

Equipment cotton overalls buttoned to the neck and wrist and a washable hat,

elbow-length PVC gloves and face shield or goggles. Re-entry period: Do not enter treated area until spray has dried.

Hygiene Measures After use and before eating, drinking or smoking, wash hands, arms and face

thoroughly with soap and water.

After each day's use, wash contaminated clothing and safety equipment.

Requirements **Concerning Special Training**

NSW regulations require that people who use pesticides in their job or business must have training in the application of the materials.

September, 2005 all users must have received such training.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form Liquid

Appearance Beige Liquid

Solubility in Water Disperses in water.

Specific Gravity 1.10

pH Value 5.43 (1% aqueous solution)

Vapour Pressure 2 x 10-4 mPa (lambda-cyhalothrin) Octanol/Water Kow Log P is 7 (lambda-cyhalothrin)

Partition Coefficient

Flammability Non combustible material.

10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions.

Hazardous Hazardous polymerisation is not possible.

Polymerization

11. TOXICOLOGICAL INFORMATION

Inhalation May cause irritation to the respiratory tract.

Ingestion Possible symptoms of exposure to the concentrate include: nausea, vomiting and

abdominal pains.

Skin May irritate the skin.

Exposure to lambda-cyhalothrin can result in sensations of tingling especially in the face. The effects are transient and generally disappear in one to two days. Topical application of vitamin E cream is effective in reducing

Prolonged contact with the concentrate may result in absorption of

lambda-cyhalothrin in harmful amounts, however possible exposure is reduced by encapsulation of the active ingredient. Allowing the product to dry on the skin, or contact whith hot water/vapours used to wash equipment removes the

advantage of the microcapsule.

Eye May irritate the eyes.

Chronic Effects Based on available data, repeated exposures are not anticipated to cause

additional significant adverse effects.

Acute Toxicity - Oral LD50 (rat) 180 - 245 mg/kg for the formulated product

Acute Toxicity -

LD50 (rat) >2000 mg/kg for the formulated product

Dermal

Acute Toxicity -Inhalation

LC50 (rat) (4hr) 3.12 mg/l for a similar formulation LC50 (rat) (4hr) 0.06 mg/l for lambda-cyhalothrin

Eye Irritation May be slightly irritant.

Skin Irritation Slight irritant.

Skin Sensitisation Product is not a skin sensitiser.

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Other Information The Australian Acceptable Daily Intake (ADI) for lambda-cyhalothrin for a

human is 0.001~mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.1~mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing, 'ADI List',

TGA, December 2004).

12. ECOLOGICAL INFORMATION

 $\textbf{Known Harmful} \qquad \text{The active ingredient lambda-cyhalothrin is highly toxic to fish and aquatic}$

Effects on the organisms.

Environment

Other Precautions Do not contaminate dams, waterways or sewers with this product or the

containers which have held this product.

Should not be applied while bees are actively foraging.

 $\label{lem:environ} \textbf{Environ. Protection} \quad \text{Severe marine pollutant.}$

Spray drift should be avoided, read the label for more information.

Acute Toxicity - Fish The following is data for the active ingredient, lambda-cyhalothrin.

Toxic to fish. LC50 (96hr) for rainbow trout is 0.00036 mg/l.

LC50 (96 hr) for bluegill sunfish is 0.00021 mg/l.

Acute Toxicity -

Daphnia

LC50 (48 hr) for daphnia is 0.00036 mg/l.

Acute Toxicity - Birds: Not toxic to birds. LD50 for mallard ducks is >3,950 mg/kg Other Organisms Highly toxic to bees both by direct contact or by ingestion.

13. DISPOSAL CONSIDERATIONS

 $\textbf{Product Disposal} \qquad \textbf{On site disposal of the concentrated product is not acceptable.}$

Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic

collections of unwanted chemicals (ChemCollect).

Container Disposal Do not use this container for any other purpose.

Triple rinse containers, add rinsate to the spray tank, then offer the

container for recycling/reconditioning, or puncture top, sides and bottom and

dispose of in landfill in accordance with local regulations.

If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable

vegetation and tree roots.

Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION

U.N. Number 3352

Proper Shipping PYRETHROID PESTICIDE, LIQUID, TOXIC - (contains Lambda-cyhalothrin)

Name

DG Class 6.1
Hazchem Code 2X
Packaging Method 3.8.6.1
Packing Group III

acking Group 111

Storage and Considered dangerous for transport by the Australian Code for the Transport of

Transport Dangerous Goods by Road and Rail.

IERG Number 35 **UN Number (Sea** 3352

Transport)

IMO Class/Packing Class 6.1; Packing Group III

Group

IMO Proper PYRETHROID PESTICIDE, LIQUID, TOXIC

Shipping Name (contains Lambda-cyhalothrin)

15. REGULATORY INFORMATION

Poisons Schedule

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Packaging & POISON

Labelling KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Hazard Category Toxic

16. OTHER INFORMATION

Contact Person/Point Normal Hours: Mr Volker Maier Phone: (03) 9282 1000

After Hours: Shift Supervisor Phone: 1800 033 498

Revisions The MSDS was reviewed. Minor changes were made to the information.

Highlighted

...End Of MSDS...