



5 Page: 1 of

Infosafe No™ 3NUFJ ISSUED by CRPCARE Issue Date : January 2015

Product Name BARRACK Betterstick Fungicide

Classified as hazardous

1. Identification

GHS Product BARRACK Betterstick Fungicide

Identifier

5786 **Product Code**

Group M5 Fungicide **Product Type**

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

Unit 17/16 Metroplex Avenue Murarrie Address

Oueensland 4172 Australia

Tel: +61 7 3909 2000 Telephone/Fax Fax: +61 7 3909 2010 Number

1800 033 498 (24hr Australia) **Emergency phone**

number

Recommended use of For the control of fungus diseases on almonds, bananas, cucurbits, grapes, ornamentals, peanuts, pulses, stone fruits, tobacco and vegetables as the chemical and

specified in the Directions for Use table on the label. restrictions on use

This Safety Data Sheet describes the properties of the concentrated product. **Other Information**

The physical properties and the assessments may not apply to the properties of

the product once it has been diluted for application.

2. Hazard Identification

GHS classification of

CA2 Carcinogenicity: Category 2 SE-3RES STOT Single Exposure Category 3 (respiratory tract irritation) the

GT/VT/IT 2 Acute Toxicity - Inhalation: Category 2 substance/mixture

ED1 Eye Damage/Irritation: Category 1 SS-1 Sensitization - Skin: Category 1

Signal Word (s) DANGER

Hazard Statement (s) H351 Suspected of causing cancer.

H335 May cause respiratory irritation.

H330 Fatal if inhaled.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

General P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children. **Precautionary**

P103 Read label before use. Statement (s)

Corrosion, Health hazard, Skull and crossbones, Exclamation mark Pictogram (s)









P271 Use only outdoors or in a well-ventilated area. **Precautionary**

P260 Do not breathe mists or spray statement -

P280 Wear protective gloves, clothing, eye and face protection. Prevention

P284 Wear respiratory protection.

P272 Contaminated work clothing should not be allowed out of the workplace.

P308+P313 IF exposed or concerned: Get medical advice/attention. **Precautionary** P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a

statement position comfortable for breathing. Response

P310 Immediately call a POISON CENTER or doctor/physician.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician. P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

Poisons Schedule S6 Other Information

3. Composition/information on ingredients

Print Date: 16/01/2015 CS: 1.7.2





5 Page: 2 of

ISSUED by CRPCARE Infosafe No™ 3NUFJ Issue Date : January 2015

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Liquid

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Chemical

Characterization

Ingredients

Name CAS Proportion

Chlorothalonil Other ingredients (considered non-hazardous)

720 g/L Balance

4. First-aid measures

Remove affected person to fresh air until recovered. If symptoms persist, Inhalation

1897-45-6

seek medical attention immediately.

Rinse mouth and then drink plenty of water. Ingestion

Do not give anything by mouth to a semi-conscious or unconscious person.

If vomiting occurs, give more water to drink to assist dilution.

Remove contaminated clothing and launder before re-use. Skin

Wash affected areas thoroughly with soap and water.

If irritation persists, seek medical advice.

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

least 15 minutes. Seek medical advice.

If poisoning occurs, contact a doctor or the Poisons Information Centre **First Aid Facilities**

(Australia) on 13 11 26.

Treat symptomatically. **Advice to Doctor**

Persons having allergic reactions respond to treatment with antihistamines or steroid creams and/or systemic steroids.

5. Fire-fighting measures

Water fog, foam, carbon dioxide or dry chemical. Suitable

extinguishing media

Hazards from

May emit toxic fumes of hydrogen chloride or phosgene if involved in fires or

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

exposed to extreme heat. Combustion

Products

Special Protective

Equipment for fire

fighters

Breathable air apparatus must be worn when fighting a fire in which this product is involved.

Specific hazards arising from the

the product is combustible.

chemical

STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES. **Other Information**

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.

Dispose of at a landfill in accordance with local regulations.

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

If product has dried out and the possibility of dust generation exists, wear

a suitable respirator.

Clean-up Methods -Large Spillages

Personal Protection

Place damaged containers in recovery bins (if available) and return to

manufacturer.

If large liquid spills occur, attempt to recover as much spilt material from

sumps and bunded areas, as possible, before absorbing remaining material into

vermiculite or other absorbent.

Environmental

Prevent from entering drains, waterways or sewers.

Precautions

7. Handling and storage

Precautions for Safe Handling

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

pesticide or used containers.

Print Date: 16/01/2015 CS: 1.7.2





5 Page: 3 of

Infosafe No™ 3NUFJ ISSUED by CRPCARE Issue Date : January 2015

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Conditions for safe storage, including

anv

Store in the closed, original container in a dry, well ventilated area out of

direct sunlight.

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

foodstuffs.

incompatabilities Store in a locked enclosure.

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

8. Exposure controls/personal protection

Safe Work Australia has set the following exposure standard for propylene Occupational

glycol: TLV (TWA) 474 mg/m3, STEL -. exposure limit values **Appropriate** Use in a well ventilated area only.

engineering controls

Do not inhale spray mist. Respiratory

Protection Personal Protective

Equipment

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

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

elbow-length PVC gloves and goggles and appropriate respiratory protection. After use and before eating, drinking or smoking, wash hands, arms and face **Hygiene Measures**

thoroughly with soap and water.

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

Requirements **Concerning Special**

Training

Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.

9. Physical and chemical properties

Liquid **Form**

White opaque liquid **Appearance** Solubility in Water Disperses in water.

1.310 **Specific Gravity**

0.076 mPa @ 25°C for chlorothalonil Vapour Pressure

Volatile Component ~40%

Partition Coefficient: Kow Log P is 2.92 (25°C, chlorothalonil)

n-octanol/water

Non combustible material. **Flammability**

10. Stability and reactivity

Chemical Stability Stable under normal conditions.

Possibility of hazardous reactions

Hazardous polymerisation is not possible. Hazardous

Polymerization

11. Toxicological Information

Acute Toxicity - Oral LD50 (rat) >5,000 mg/kg for chlorothalonil

Acute Toxicity -

>5,000 mg/kg for chlorothalonil LD50 (rat)

Keep away from strong oxidising agents.

Dermal

Acute Toxicity -LC50 (4hr) (rat) 0.1 mg/l for chlorothalonil

Inhalation

Ingestion May cause irritation to mouth, throat and stomach.

Possible symptoms of exposure include: nausea, vomiting and central nervous

system depression.

Inhalation Not a likely route of exposure when handling the concentrate.

However, care should be taken to avoid the inhalation of excessive amounts

of spray mist during field spraying, respiratory irritation may occur.

Skin May irritate the skin.

Prolonged or repeated exposure may cause skin sensitisation.

The concentrate will cause severe irritation and possible damage unless washed Eve

Print Date: 16/01/2015 CS: 1.7.2





4 of 5 Page:

Infosafe No™ 3NUFJ ISSUED by CRPCARE Issue Date : January 2015

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off immediately.

Chlorothalonil is a skin sensitiser. **Skin Sensitisation**

Carcinogenicity Chlorothalonil is classified as a suspected human carcinogen based on limited

evidence from animal studies.

The product is an eye irritant.

Reproductive

Data indicates no reproductive effects.

Toxicity

Chronic Effects Liver and kidney damage has been noted in laboratory animals that have been

fed excessive doses of chlorothalonil.

Reports of human experience in use of chlorothalonil products demonstrate

that some individuals become sensitive to contact with this compound.

Serious eye

damage/irritation

Respiratory

The product is a respiratory irritant.

Irritation Skin

Mild skin irritant.

corrosion/irritation

Other Information

The Australian Acceptable Daily Intake (ADI) for chlorothalonil for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 1.5 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, Office of Chemical Safety, 'ADI List', June 2014).

12. Ecological information

Average field half life of chlorothalonil is 7 - 30 days. Persistence and

Adsorption studies indicate that chlorothalonil has very low mobility. degradability

In water, half life for chlorothalonil is 4.5 hours to 9 days. Highly toxic to fish and aquatic organisms.

Known Harmful

Effects on the Environment

Marine pollutant. Environmental

Protection

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

LC50 (96hr) for rainbow trout is 0.043 mg/l. LC50 (96hr) for bluegill sunfish is 0.059 mg/l. LC50 (48hr) for daphnia magna is 0.070 mg/l.

Acute Toxicity -

Daphnia

Acute Toxicity -Algae

EC50 (120hr) for Selenastrum capricornutum 0.21 mg/l.

Acute Toxicity -

Other Organisms

The following data is for the active ingredient, chlorothalonil.

Not toxic to bees.

Birds: Not toxic to birds. LD50 for mallard ducks is >4,640 mg/kg

13. Disposal considerations

On site disposal of the concentrated product is not acceptable. **Product Disposal**

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 (ChemClear®).

Container Disposal

Do not use this container for any other purpose.

Triple or preferably pressure rinse containers before disposal. Add rinsings to the spray tank.

If recycling, replace cap and return clean containers to recycler or

designated collection point.

If not recycling, puncture or shred and bury containers in local authority landfill.

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.

Returnable containers: empty contents fully into application equipment. Replace cap, close all valves and return to the point of supply for refill or storage.

drumMUSTER is the national program for the collection and recycling of

CS: 1.7.2 Print Date: 16/01/2015





5 of 5 Page:

Infosafe No™ 3NUFJ Issue Date : January 2015 ISSUED by CRPCARE

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empty, cleaned, non returnable crop production and on-farm animal health chemical containers. If the label on your container carries the drumMUSTER symbol, triple rinse the container, ring your local Council, and offer the container for collection in the program.

14. Transport information

It is good practice not to transport agricultural chemical products with **Transport**

food, food related materials and animal feedstuffs. Information

Considered non dangerous for road and rail transport (in packaging, including Storage and IBCs not greater than 3000 Lt each) by the Australian Code for the Transport **Transport**

of Dangerous Goods by Road and Rail. Ref: ADG7; SP No. AU01.

For bulk shipments as Class 9, use UN 3082, HazChem code 2Z.

UN Number (Sea

Transport)

Class 9; Packing Group III **IMO Class/Packing**

Group

Marine Pollutant **IMO** Marine

Pollutant

IMO Proper ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(contains Chlorothalonil) **Shipping Name**

15. Regulatory information

Poisons Schedule

Packaging & POISON

KEEP OUT OF REACH OF CHILDREN Labelling

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

This product is registered with the Australian Pesticides and Veterinary **Other Information**

Medicines Authority (APVMA). APVMA product number: 61016.

16. Other Information

Revised 16/01/2015 Date of preparation

or last revision of

This SDS replaces document dated May 2012.

SDS

Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000 Contact Phone: 1800 033 498 After Hours: Shift Supervisor Person/Point

The SDS was reviewed to include GHS requirements. Revisions

Highlighted

...End Of MSDS...

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CS: 1.7.2 Print Date: 16/01/2015