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Infosafe No™ 3NV0C Issue Date : July 2017 ISSUED by NUFARM

Product Name SHIRTAN Liquid Fungicide

Classified as hazardous

#### 1. Identification

**GHS Product** 

SHIRTAN Liquid Fungicide

Identifier

**Product Code** 5113

Group Y Fungicide **Product Type** 

NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780) **Company Name** 

103-105 Pipe Road Laverton North Address

Victoria 3026 Australia Tel: +61 3 9282-1000 Telephone/Fax Fax: +61 3 9282-1001 Number

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

Recommended use of To control pineapple disease of sugar cane.

the chemical and restrictions on use Other Information

### 2. Hazard Identification

OT3 Acute Toxicity - Oral: Category 3 DT3 Acute Toxicity - Dermal: Category 3 GHS classification of

the

IT 3 Acute Toxicity - Inhalation: Category 3 substance/mixture

SC-1B Skin Corrosion/Irritation: Category 1B RE1 STOT Repeated Exposure Category 1

SE-1 STOT Single Exposure Category 1 FL3 Flammable Liquids: Category 3

AC1 Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1

DANGER Signal Word (s)

H301 Toxic if swallowed. Hazard Statement (s)

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

H314 Causes severe skin burns and eye damage.

H372 Causes damage to organs through prolonged or repeated exposure.

H370 Causes damage to organs.

H410 Very toxic to aquatic life with long lasting effects.

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

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

P103 Read label before use. Statement (s)

Skull and crossbones, Corrosion, Health hazard, Flame, Environment, The below pictograms are GHS Hazard symbols for workplace use only. Pictogram (s)

See SECTION 14 for Dangerous Goods information.











P264 Wash hands and exposed skin thoroughly after handling. **Precautionary** P270 Do not eat, drink or smoke when using this product. statement -

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

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

P260 Do not breathe mists or vapours.

P314 Get medical advice/attention if you feel unwell. **Precautionary** 

statement - Response P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all

contaminated clothing. Rinse skin with water/shower.

P363 Wash contaminated clothing before reuse.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a

position comfortable for breathing.

P310 Immediately call a POISON CENTER or doctor/physician.





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P321 Specific treatment (see Advice to Doctor on this SDS).

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

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

DANGEROUS POISON Other Information Poisons Schedule S7

### 3. Composition/information on ingredients

Chemical Characterization Liquid

Ingredients Name CAS Proportion Mercury as Methoxy 123-88-6 120 g/L Ethyl Mercuric Chloride 179 g/L Methanol 67-56-1 Other ingredients N/A Balance determined not to be hazardous

#### 4. First-aid measures

Inhalation Remove victim from exposure - avoid becoming a casualty.

Allow patient to assume most comfortable position and keep warm. Keep at

rest until fully recovered. Obtain medical assistance.

Rinse mouth thoroughly with water. Ingestion

Give a glass 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.

If skin contact occurs, remove contaminated clothing and wash skin thoroughly Skin with water.

For skin burns, immediately flood skin with copious amounts of water.

Cover with a clean, dry dressing.

Seek medical advice, but only after the exposed skin has been thoroughly

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

least 15 minutes.

Seek medical advice immediately.

If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26. First Aid Facilities

Ingestion of an organic mercury compound, even at low dosage, is life Advice to Doctor threatening and management is difficult. Basic poisoning management steps

are:

Limit gastrointestinal absorption. If product has been ingested in the past few hours, the stomach must be evacuated by intubation and lavage, taking all precautions to protect the respiratory tract. Repeated administration of

activated charcoal may be beneficial.

Administer a chelating agent. Succimer or D-Penicillamine (D-Penamine) may be

used.

Dimercaprol (BAL) is contraindicated and EDTA is ineffective. (2) Consider use of extracorporeal haemodialysis and haemoperfusion, although the unmodified organic mercurials are not efficiently dialyzable across most membranes, when used in combination with chelating agents, dialysis may be of some use in removing organic mercury from the blood. Very little can be done

to mitigate the neurological damage caused by organic mercurials.

### 5. Fire-fighting measures

extinguishing media

Water fog, foam, carbon dioxide or dry chemical.

**Special Protective Equipment for fire** fighters

Fire fighters to wear self-contained breathing apparatus if risk of exposure to products of decomposition.

Specific hazards arising from the chemical

Decomposes on heating emitting toxic fumes of mercury.





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2X Hazchem Code

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

6. Accidental release measures

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

as vermiculite).

Collect in sealed open top containers for disposal.

Keep upwind.

If possible, ring 1800 033 498 for specialist advice.

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

Prevent from entering drains, waterways or sewers. **Environmental** 

**Precautions** 

7. Handling and storage

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

Do not store for prolonged periods in direct sunlight.

storage, including Keep container tightly sealed and do not store with seed, fertilisers or any incompatabilities

foodstuffs.

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 Mercury, alkyl Occupational compounds (as Hg): TLV (TWA) 0.01 mg/m3, STEL 0.03 Sk. exposure limit values

Safe Work Australia has set the following exposure standard for Methanol:

TLV (TWA) 262 mg/m3, STEL 328 Sk.

'SK' notice - absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur. Provide ventilation as required to maintain airborne concentration levels

**Appropriate** below the exposure standard.

engineering controls Use in a well ventilated area only.

**Personal Protective Equipment** 

When opening the container, preparing the dip and using the prepared dip wear protective waterproof clothing, elbow-length PVC gloves, water resistant

footwear and full-facepiece respirator (or goggles and half facepiece

Avoid generating a spray or mist. respirator).

**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.

9. Physical and chemical properties

Liquid Form

Dark red liquid **Appearance** ~100°C (water) **Boiling Point** 

Miscible with water. Solubility in Water

1.16 **Specific Gravity** 133 mPa Vapour Pressure

Flammable Liquid. GHS category 3. Does not sustain combustion therefore not **Flammability** 

classified as a flammable liquid for transport by ADG7.

10. Stability and reactivity

**Chemical Stability** Shirtan is stable in alkaline conditions, but is decomposed by acid to

ethylene, methanol (flammable) and mercury salt.

11. Toxicological Information

No harmful effects are expected if the precautions on the label and this MSDS **Toxicology** 

are followed. Information

Acute Toxicity - Oral LD50 (rat) (15% solution) 22-44 mg/kg

LD50 (rat) 30 mg/kg for methoxy ethyl mercuric chloride





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The concentrate is very toxic if swallowed. Ingestion

Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain, convulsions, chemical burns, loss of consciousness and possible death.

Inhalation May cause irritation to mucous membranes and respiratory tract.

Breathing vapour can result in headaches, dizziness and possible nausea.

Unless removed immediately, will cause burns. Skin

Can cause toxic dermatitis ranging from mild irritation to the production of slow healing ulcers. Can be absorbed through the skin. (1) Effects can

include those seen if swallowed.

Corrosive to eyes; contact can cause corneal burns. Contamination of eyes can Eye

result in permanent injury.

**Chronic Effects** Repeated minor exposure may have a cumulative poisoning effect. Poisoning by

alkoxyalkyl mercury compounds usually begins with loss of appetite, flatulence and diarrhoea. The patient may complain of weight loss, exhaustion and headache. Albuminuria is a common finding and may be accompanied by generalised edema. Signs of injury of the central nervous system include

numbness of the fingers and toes and some degree of ataxia. (1)

12. Ecological information

Bioaccumulative **Potential** 

Risk of bioaccumulation in aquatic species is high.

Environmental

Marine pollutant.

**Protection** 

13. Disposal considerations

**Product Disposal** Dispose of the discarded dip and spray solutions by combining with sand/soil

mixture and bury under 500mm of soil away from water sources and homes.

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

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.

MERCURY BASED PESTICIDE, LIQUID, TOXIC - (contains Methoxy ethyl mercury

Empty containers and product should not be burnt.

14. Transport information

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

Information food, food related materials and animal feedstuffs.

U.N. Number

UN proper shipping

name

chloride)

6.1 Transport hazard

class(es)

2X **Hazchem Code** 

3.8.6.1 **Packaging Method** 

**Packing Group** 

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

Dangerous Goods by Road and Rail.

**EPG Number IERG Number** 34

Transport)

3012 UN Number (Sea

**IMO Class/Packing** 

Class 6.1; Packing Group III.

Group





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**IMO Marine** 

Marine Pollutant

Pollutant

MERCURY BASED PESTICIDES, LIQUID, TOXIC, N.O.S. **IMO Proper** 

(contains Methoxy ethyl mercuric chloride) **Shipping Name** 

15. Regulatory information

WHS Schedule 11: item 8 - Flammable Liquid category 3. WHS Schedule 11, item Regulatory 35: Acute toxicity oral, dermal, inhalation category 3 . WHS Schedule 11, Information

item 38 ( Skin corrosion category 1B )

**Poisons Schedule** 

Packaging & Labelling

DANGEROUS POISON

KEEP OUT OF REACH OF CHILDREN

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: 49572.

16. Other Information

Date of preparation

or last revision of

SDS

Literature (1) Handbook of Pesticide Toxicology, 1991 (Hayes and Laws) Vol 2, pg 523-524

(Academic Press Inc). References

12/07/2017

(2) Handbook of Pesticide Toxicology, 2001 2nd Edition Vol 2, pg 1375.

Contact Person/Point Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000

Phone: 1800 033 498 After Hours: Shift Supervisor

Revisions The SDS was reviewed. Minor changes were made to the information and product

has been rebranded. Highlighted

...End Of MSDS...

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