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Infosafe No™ 3NUYJ Issue Date : June 2017 ISSUED by NUFARM

Product Name CALIBRE® 100 EC Miticide

Classified as hazardous

1. Identification

GHS Product

CALIBRE® 100 EC Miticide

Identifier

1014 **Product Code**

Group 10A Insecticide **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

Emergency phone

number

the chemical and

1800 033 498 (24hr Australia)

Recommended use of For the control of twospotted mite (Tetranychus urticae) and European red mite (Panonychus ulmi) on apples, pears, stone fruit and ornamentals and for

control of twospotted mite on strawberries as per the Directions for Use table restrictions on use on the label.

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

the

FL3 Flammable Liquids: Category 3 TR1 Toxic to Reproduction: Category 1 DT4 Acute Toxicity - Dermal: Category 4

substance/mixture

IT 4 Acute Toxicity - Inhalation: Category 4 SC-2 Skin Corrosion/Irritation: Category 2

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

DANGER Signal Word (s)

Hazard Statement (s) H226 Flammable liquid and vapour.

H360 May damage fertility or the unborn child.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H318 Causes serious eye damage.

H315 Causes skin irritation.

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)

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

See SECTION 14 for Dangerous Goods information.











Precautionary statement -Prevention

P210 Keep away from open flames/hot surfaces. - No smoking.

P223 Keep away from any possible contact with water, because of violent

reaction and possible flash fire.

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

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing vapours and spray.

Precautionary

P308+P313 IF exposed or concerned: Get medical advice/attention.

statement - Response P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all

contaminated clothing. Rinse skin with water/shower.

P370+P378 In case of fire: Use water fog, foam, carbon dioxide or dry chemical

for extinction.

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.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.





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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.

Other Information Poisons Schedule S6

3. Composition/information on ingredients Liquid

Characterization

Chemical

CAS Ingredients Name Proportion 78587-05-0 100 g/L Hexythiazox 753 g/L Xylene 1330-20-7 Emulsifiers 0-10 %

4. First-aid measures

Inhalation Remove affected person to fresh air until recovered. If symptoms develop or

persist, seek medical advice.

Rinse mouth and then drink plenty of water. Ingestion

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.

Skin Wash affected areas thoroughly with soap and water.

Remove contaminated clothing and launder before re-use.

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

least 15 minutes. Seek medical advice.

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

(Australia) on 13 11 26.

Advice to Doctor Treat symptomatically.

If vomiting occurs, solvent present may cause pulmonary pneumonitis.

5. Fire-fighting measures

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

extinguishing media

If involved in a fire, the dehydrated components may emit oxides of carbon, Hazards from

oxides of nitrogen, sulfur compounds and chlorine compounds. Combustion

Products Equipment for fire

Special Protective Breathable air apparatus should be worn when fighting a fire in which this

product is involved.

fighters

Specific hazards Flammable liquid. Avoid all ignition sources.

arising from the chemical

Hazchem Code

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

6. Accidental release measures

Shut off all possible sources of ignition. 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

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

7. Handling and storage

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

chemical or used containers. Handling

Store in the closed, original container in a dry, cool well ventilated area Conditions for safe out of direct sunlight. storage, including

Store in an area suitable for flammables. any incompatabilities





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

8. Exposure controls/personal protection

Occupational exposure limit values

Safe Work Australia has set the following exposure standard for xylenes: TLV

(TWA) 350 mg/m3, STEL 655 mg/m3.

Appropriate engineering controls

Provide ventilation as required to maintain airborne concentration levels

below the exposure standard.

Personal Protective
Equipment

It is good practice to wear suitable personal protective equipment (PPE).

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.

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

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.

Training

9. Physical and chemical properties

Form Liquid

Appearance Clear colourless to amber liquid.

Odour Mild chemical odour

Solubility in Water Forms an emulsion in water.

Specific Gravity 0.904

Vapour Pressure 0.0034 mPa @ 25°C for hexythiazox

465°C for xylene

Volatile Component 83%

Partition Coefficient: Kow Log P is 2.53 for hexythiazox

n-octanol/water

Flash Point 24°C

Flammability Flammable.

Auto-Ignition

Temperature Flammable Limits -

1% by volume (for xylene)

Lower

Flammable Limits - 7.5% by volume (for xylene)

Upper

10. Stability and reactivity

Chemical Stability Stable under normal conditions.

Possibility of

Keep away from strong oxidising agents.

hazardous reactions

Hazardous polymerisation is not possible.

Polymerization

11. Toxicological Information

 $\textbf{Toxicology} \hspace{1.5cm} \textbf{No harmful effects are expected if the precautions on the label and this MSDS}$

Information are followed.

Acute Toxicity - Oral LD50 (rat) >5000 mg/kg for hexythiazox

Acute Toxicity - LD50 (rat) >5000 mg/kg for hexythiazox

Dermal

Acute Toxicity - LC50 (rat) (4hr) >2 mg/l for hexythiazox

Inhalation

depression as described under inhalation.

Inhalation High vapour concentrations of the solvent while handling the concentrate are





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irritating to the eyes and the respiratory tract, may cause headaches and

dizziness, and may have other central nervous system effects.

Will irritate the skin. Skin

Prolonged contact with the concentrate can cause defatting of the skin and

may result in dermatitis.

Will irritate the eyes. Eye

Product is not a skin sensitiser. Skin Sensitisation

Reproductive

Data indicates no teratogenic effects.

Toxicity Serious eye

The product is an eye irritant.

damage/irritation

Data indicates no mutagenic effects. Mutagenicity

The product is a skin irritant. Skin

corrosion/irritation

The Australian Acceptable Daily Intake (ADI) for hexythiazox for a human is Other Information

0.03 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 3 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', March 2016).

12. Ecological information

Persistence and degradability **Other Precautions** Half life in soil is typically 8 days.

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

containers which have held this product.

Environmental Protection

Acute Toxicity - Fish

The following is data for the active ingredient, hexythiazox.

LC50 (96hr) for rainbow trout is >300 mg/l. LC50 (96hr) for bluegill sunfish is 11.6 mg/l.

Acute Toxicity -

LC50 (48hr) for daphnia is 0.24 mg/l.

Daphnia

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

Other Organisms

Container Disposal

LD50 for mallard ducks is >2510 mg/kg Bees: Not toxic to bees. LD50 >200 µg/bee.

13. Disposal considerations

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

Marine pollutant.

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®). 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.

drumMUSTER is the national program for the collection and recycling of 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. 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.

14. Transport information





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1993 U.N. Number

UN proper shipping

name

Transport hazard

class(es)

III

2.W **Hazchem Code**

3.8.3RT1 **Packaging Method**

Packing Group

Storage and **Transport**

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

Dangerous Goods by Road and Rail.

FLAMMABLE LIQUID, N.O.S. - (contains Xylene)

EPG Number 14 **IERG Number**

IMO Marine

Marine Pollutant

Pollutant

15. Regulatory information

Regulatory

WHS Schedule 11: item 8 - Flammable Liquid category 3.

Information

Poisons Schedule

S6

Packaging & POISON

KEEP OUT OF REACH OF CHILDREN Labelling

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

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

Medicines Authority (APVMA). APVMA product number: 58856.

16. Other Information

Date of preparation

14/06/2017

or last revision of

SDS

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

After Hours: Shift Supervisor Phone: 1800 033 498 The SDS was reviewed. Minor changes were made to the information and product

Revisions

has been rebranded. Highlighted ® Registered trademark of BASF. **Other Information**

...End Of MSDS...

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