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Infosafe No™ 3NV2L Issue Date: November 2019 ISSUED by NUFARM

Product Name CHATEAU®HERBICIDE

1. Identification

GHS Product

CHATEAU®HERBICIDE

Identifier

00650 **Product Code Product Type** Herbicide Nufarm N7 **Company Name**

Address 6 Manu Street, Otahuhu

Auckland 2024 New Zealand

Telephone/Fax

Tel: 0-9-270 4150

Number

Emergency phone

0800 651 911

number

nzinfo@nufarm.com Email

Recommended use of the chemical and restrictions on use

Other Information

A contact and soil residual herbicide for season-long weed control in grapes, kiwifruit, pipfruit, stonefruit, bush fruit, hops and shelterbelts.

This SDS 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. Hazard Identification

Signal Word (s) WARNING

H361 Suspected of damaging fertility or the unborn child. Hazard Statement (s)

H372 Causes damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H421 Very toxic to the soil environment.

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) Health hazard, Environment, Pictogram (s)

The below pictograms are GHS Hazard symbols for workplace use only.

See SECTION 14 for Dangerous Goods information.





P201 Obtain special instructions before use. Precautionary

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

P260 Do not breathe dust or spary mist. Prevention

P264 Wash hands and face thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P281 Use personal protective equipment as required.

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

P391 Collect spillage. statement - Response 6.8B Reproductive/Developmental toxicant, 6.9B target organ toxicant, 9.1A

Other Information aquatic toxicant, 9.2A soil toxicant

3. Composition/information on ingredients

Solid Chemical

Precautionary

Characterization

Ingredients Name CAS Proportion 500 g/kg 103361-09-7 Flumioxazin Other ingredients 10-30 % (considered non-hazardous) Kaolin 1322-58-7 10-30 %





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4. First-aid measures

First Aid Measures For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a

doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth-to-nose rather than mouth-to mouth. Obtain medical

attention.

Inhalation Remove patient to fresh air. Lay down and keep warm and rested. If breathing

is shallow or has stopped ensure airway is clear and apply resuscitation.

Seek medical assistance immediately.

induce vomiting. For advice, contact the National Poisons Centre (0800 764

766). Seek medical assistance immediately.

Skin Immediately flush body and clothes with large amounts of water. Remove

contaminated clothing and footwear. Wash affected areas with soap and water.

If a large area is affected seek medical assistance.

Eye contact Flush eyes with plenty of water for 15 minutes holding eyelids open if

necessary.

Remove contact lenses, if present and easy to do.

Seek medical assistance even if there are no immediate symptoms.

First Aid Facilities Facilities storing or utilizing this material should be equipped with an

eyewash facility and safety shower.

Advice to Doctor Treat symptomatically.

Most important symptoms/effects, acute and delayed

The severity of the symptoms described will vary dependent on the

concentration and the length of exposure.

5. Fire-fighting measures

Suitable Alcohol resistant foam, carbon dioxide, dry powder or water fog.

extinguishing media

Unsuitable

Do not use water jet as an extinguisher, as this will spread the fire.

Full protective clothing and self-contained breathing apparatus.

Extinguishing Media

Hazards from Combustion

Thermal decomposition or combustion products may include harmful gases or

vapours.

Products

Special Protective Equipment for fire

re

fighters

Specific Methods

Keep up wind to avoid inhalation of gases, vapours, fumes and smoke. Do not

allow washings to reach sewage or effluent systems.

Specific hazards

arising from the chemical

Hazchem Code 2Z

Hazenem Couc 22

 $\label{lem:decomposition} \textbf{Decomposition Temp.} \quad \textbf{Data not available.}$

None known.

Other Information Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable

Number of Fire Extinguishers: Not applicable

6. Accidental release measures

Spills & Disposal Wear protective clothing. Clear area of unprotected personnel. Sweep up

solids without generating dust (use water to dampen). Contain and absorb liquid spills with inert material and place in waste containers. If spill does enter waterways contact the local authority. Collect in an appropriate

sealable container for disposal in an approved landfill.

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

Environmental This product is a herbicide and spills can damage crops, pastures and Precautions desirable vegetation.

Avoid discharge to the aquatic environment.

7. Handling and storage

Precautions for Safe
Handling

Do not handle until all safety precautions have been read and understood.
The person mixing or applying CHATEAU HERBICIDE must be a 'Qualified'





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Contractor' or a 'Qualified Person'. The spray mixture may also be prepared by a 'Qualified Loader'. For more informtaion refer to Hazardous Substances

(Hazardous Property Controls) Notice 2017.

Do not breathe dust, spray, mists.

TRACKING: Is not required.

RECORD KEEPING: Records of use as described in the NZS 8409 Management of

Agrichemicals must be kept. BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may

cause serious damage to other desirable plants.

Conditions for safe storage, including any incompatabilities Keep out of reach of children. Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertilisers and seeds. Storage must be in accordance

with NZS 8409 Management of Agrichemicals. Stores containing 100kg of CHATEAU HERBICIDE are subject to signage, and

more than 100kg require emergency response plans.

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

Aggregate Storage Volume Thresholds:

When stored with substances of the same hazard classification the aggregate quantity must be considered. For full details refer to the current NZS8409

Management of Agrichemicals and the HSNO Regulations.

8. Exposure controls/personal protection

No exposue standards have been set for this product. **Occupational**

WES TWA for Kaolin (CAS 1332-58-7) = 10mg/m3 inhalable dust and 2mg/m3 exposure limit values

respirable dust.

Potential Daily Exposure (PDE food) = 0.014mg/kg bw/day

Potential Daily Exposure (PDE drinking water)=0.004mg/kg bw/day

Potential Daily Exposure (PDE other) = 0.002mg/kg bw/day

Appropriate engineering controls

Handle in well ventilated areas, generally natural ventilation is adequate. Avoid generation of dust when handling solid. If dust generation is

unavoidable, use forced draft to keep dust away from operator, or wear

suitable dust respirator.

Personal Protective

Equipment

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

safety goggles, washable hat, waterproof gloves, cotton overalls

buttoned to the neck and wrist, and boots.

Hygiene Measures Do not eat, drink or smoke while using.

Remove protective clothing and wash hands and face thoroughly before meals

and after work. Wash protective clothing daily after work.

9. Physical and chemical properties

Form

Beige granules. **Appearance**

Odour Odourless

Decomposition

Data not available.

Temperature

202-204°C (flumioxazin) **Melting Point**

Boiling Point Not applicable

Disperses in water. Solubility in Water 5.0-7.0 (1% solution) pН

Vapour Pressure 3.2 mPa (flumioxazin, 22°C)

Vapour Density

(Air=1)

Data not available

Partition Coefficient: Kow Log P is 2.55

n-octanol/water

0.50-0.58 g/mlDensity Not available. Flash Point Data not available. Flammability

Temperature

Auto-Ignition Not applicable





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Explosion Properties Not explosive Not oxidising **Oxidising Properties**

Data not available. **Kinematic Viscosity** Not applicable. Relative density

Water Dispersible Granule. Other Information

10. Stability and reactivity

Chemical Stability Stable under normal conditions of handling and storage.

Conditions to Avoid There are no known conditions that are likely to result in a hazardous

situation.

Data not available. Incompatible

Materials

Data not available. Hazardous

Decomposition Products

Possibility of

Keep away from strong oxidising agents.

hazardous reactions

Hazardous polymerisation is not possible. Hazardous

Polymerization

11. Toxicological Information

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

are followed. Information

Acute Toxicity - Oral LD50 (rat) >5000 mg/kg for flumioxazin LD50 (rat) >2000 mg/kg for flumioxazin Acute Toxicity -

Dermal

Acute Toxicity -LC50 (rat) (4hr) >3.93 mg/l for flumioxazin

Inhalation

The concentrate is of low toxicity if swallowed. Ingestion

Non irritating to skin (flumioxazin) Skin Mild eye irritant (rabbits) (flumioxazin) Eye

Respiratory

Based on available data the clasification criteria are not met.

sensitisation

Product is not a skin sensitiser. **Skin Sensitisation**

Based on available data the classification criteria are not met. Germ cell

mutagenicity

Based on available data the classification criteria are not met. Carcinogenicity

May damage the unborn child. Reproductive

Development toxicity (oral, rats): NOAEL 10mg ai/kg bw **Toxicity**

(oral, rabbits): NOAEL >3000mg ai/kg bw Not specified as a specific target organ toxicant after single exposure.

STOT-single exposure

Not specified as a specific target organ toxicant after repeated exposure. STOT-repeated exposure

Not relevant. Solid. **Aspiration Hazard** Data not available. Mutagenicity Not a skin corrosive. Skin

corrosion/irritation

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

0.003 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: Aust Govt Dept. of Health, Office of Chemical Safety,

'ADI List', December 2014).

12. Ecological information





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Persistence and

Flumioxazin is rapidly degradable

degradability

Not considered mobile. Mobility

Bioaccumulative

Flumioxazin is not bioaccumulative

Potential

Do not spray in high winds. Other Precautions

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

containers which have held this product.

Environmental

Spray drift can cause damage, read the label for more information.

Protection **Acute Toxicity - Fish**

LC50 (96hr) for Onchorhynchus mykiss (Rainbow Trout) = 26.2 mg ai/l for

formulated product.

LC50 (96hr) for Onchorhynchus mykiss (Rainbow Trout) = 2.3 mg/l for flumioxazin. Chronic toxicity for Onchorhynchus mykiss (Rainbow Trout = NOEC: 0.0077mg ai/l

for flumioxazin.

Acute Toxicity -

LC50 (48hr) for daphnia is 5.9 mg/l for flumioxazin.

Daphnia

Algae

EC50 for Selenastrum capricornutum = 0.0012 mg ai/L for flumioxazin. Acute Toxicity -

Birds: Not toxic to birds. Acute oral LD50 Mallard Duck is >2130 mg/kg bw for **Acute Toxicity -**Other Organisms flumioxazin.

Bees: Not toxic to bees. LD50 (contact) >105µg/bee, (oral) >100µg/bee for

flumioxazin.

13. Disposal considerations

Product Disposal To avoid disposal all attempts should be made to utilise the product

completely in accordance with it's registered use. Dilute unusable product

according to the label and pour onto fallow land. Prevent the product

entering natural water sources.

Ensure container is completely empty. Crush and bury in a suitable $\ensuremath{\mathsf{E}}$ **Container Disposal**

landfill.Dispose of product only by using according to the label, or at an

appropiate landfill.

14. Transport information

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

food, food related materials and animal feedstuffs.

3077 U.N. Number

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. - (contains flumioxazin, **UN proper shipping**

50%) name

27

Transport hazard class(es)

Information

Hazchem Code

Packaging Method

III **Packing Group**

EPG Number 47 **IERG Number**

IMO Marine

Marine pollutant (applies to packs greater than 5Kg or 5L)

Pollutant

IMDG EMS F-A, S-F

Other Information

Segregation: Check the latest Land Transport Rule Dangerous Goods Rule 45001 for additional information. Sea transport may require additional segregation.

Refer NZS5433 sea segregation for details.

15. Regulatory information

Registered pursuant to the ACVM Act 1997, No. P9507 National and or International See www.foodsafety.govt.nz for registration conditions

Approved pursuant to the HSNO Act 1996, Approval Code HSR101301 Regulatory

See www.epa.govt.nz for approval controls. Information





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Packaging & WARNING

Labelling KEEP OUT OF REACH OF CHILDREN

Read Label before use.

16. Other Information

Date of preparation August 2019

or last revision of

SDS

Contact Person/Point IN AN EMERGENCY, DIAL 111 - FIRE OR POLICE

24Hr Tollfree Emergency No: 0800 651 911

24Hr Emergency No: National Poisons Centre Phone: 0800 764 766

Revisions Additional label claims added in Section-1

Highlighted

...End Of MSDS...

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