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Infosafe No™ 3NV5G Issue Date : November 2020 ISSUED by NUFARM

Product Name AMISHIELD®

Classified as hazardous

### 1. Identification

**GHS Product** 

AMISHTELD®

**Identifier** 

02400 **Product Code Product Type** Fungicide Company Name Nufarm NZ

6 Manu Street, Otahuhu Address

Auckland 2024 New Zealand

Telephone/Fax

Tel: 0-9-270 4150

Number

**Emergency phone** 

0800 651 911

number

E-mail Address nzinfo@nufarm.com

Recommended use of the chemical and

A fungicide for use as a seedling drench to control clubroot in vegetable and

leafy vegetable brassicas.

restrictions on use

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

GHS classification of Classified as Hazardous according to the Hazardous Substances (Minimum Degrees

of Hazard) Regulations 2001, New Zealand.

substance/mixture

the

Signal Word (s) WARNING

H351 Suspected of causing cancer. **Hazard Statement (s)** 

H410 Very toxic to aquatic life with long lasting effects.

P101 If medical advice is needed, have product container or label at hand. **Precautionary** P102 Keep out of reach of children.

statement - General P103 Read label before use.

Health hazard, Environment Pictogram (s)





P201 Obtain special instructions before use. **Precautionary** 

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

P281 Use personal protective equipment as required. Prevention

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

statement - Response P391 Collect spillage. P405 Store locked up. **Precautionary** 

statement - Storage

**Precautionary** 

P501 In the case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a statement – Disposal description of one or more appropriate and achievable methods for the disposal

of a substance in accordance with the Hazardous Substances (Disposal)

Regulations 2001. This may also include any method of disposal that must be

avoided. See Section 13 for disposal details.

**Other Information** 6.7B Suspected carcinogen, 9.1A Aquatic toxicant.

### 3. Composition/information on ingredients





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CAS **Ingredients** Name Proportion Amisulbrom 348635-87-0 50 % Other components to 100%

4. First-aid measures

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

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

attention.

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

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

Seek medical assistance immediately.

Never give anything by mouth to an unconscious person. If swallowed do NOT Ingestion

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

766). Seek medical assistance immediately.

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

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

If a large area is affected seek medical assistance.

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

necessarv.

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.

Treat symptomatically. **Advice to Doctor** 

5. Fire-fighting measures

Water spray, foam, CO2 or dry chemical. Suitable

extinguishing media

Unsuitable High volume water jet.

**Extinguishing Media** 

Hazards from Carbon dioxide, carbon monoxide, halogenated compounds and oxides of nitrogen and sulphur are potential thermal decomposed products.

Combustion **Products** 

**Special Protective** Full protective clothing and self-contained breathing apparatus.

**Equipment for fire** 

fighters

Keep up wind to avoid inhalation of gases, vapours, fumes and smoke. Do not **Specific Methods** allow washings to reach sewage or effluent systems. Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure

being built up due to heat.

**Hazchem Code** 

Decomposition Temp. Data not available.

Location Certificate: Not applicable Other Information

Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

6. Accidental release measures

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

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 **Precautions** 

Avoid discharge to the aquatic environment.

7. Handling and storage





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**Precautions for Safe** 

Handling

Do not breathe dust, spray, mists. CERTIFIED HANDLER: Is not required.

TRACKING: Is not required.

Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area. It is the duty of the PCBU that a person who uses, handles, manufactures or stores a hazardous substance (including hazardous waste) is provided

information, instruction and training in accordance with Regulation 4.5 of the

Health and Safety at work (Hazardous Substances) Regulations 2017.

Conditions for safe storage, including any incompatibilities 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 are subject to secondary containment and signage and

more than 100 kg require emergency response plans.

**Other Information** 

Always read the label and any attached leaflet before use.

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

**Occupational** exposure limit values The following ADE and PDE values have been set for amisulbrom

ADE = 0.12 mg/kg bw/day

PDE (food) = 0.084 mg/kg bw/day

PDE (drinking water) = 0.014 mg/kg bw/day

PDE (other) = 0.012 mg/kg bw/day

No EEL's have been set for this substance.

**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

washable hat, safety goggles, waterproof gloves, cotton overalls

buttoned to the neck and wrist, and boots.

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

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

Solid **Form** 

Pale brown granular solid. **Appearance** 

Odour Odourless.

**Decomposition** 

Data not available.

**Temperature** 

128.6-130.0°C (amisulbrom) **Melting Point** 

**Boiling Point** Not applicable Solubility in Water 0.11mg/L at 20°C

**Solubility in Organic** 

**Solvents** 

Toluene 88.6g/L, Methanol 10.1 g/L at 20°C

pН 5.6 (1% solution)

1.8  $\times$  10-8 Pa (amisulbrom, 25°C) Vapour Pressure

**Vapour Density** 

Not applicable.

(Air=1)

Partition Coefficient: Kow LogP = 4.4 (amisulbrom)

n-octanol/water

0.66 g/ml (Pour density) **Density** 





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Not applicable. **Flash Point** Not flammable. **Flammability** 

373°C **Auto-Ignition** 

**Temperature** 

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

Data not available. **Kinematic Viscosity** 

Other Information Water Dispersible Granule.

10. Stability and reactivity

May react with strong bases, acids or strong oxidizing agents, such as Reactivity

chlorates, nitrates, peroxides.

Stable under normal conditions of handling and storage. **Chemical Stability** 

Avoid high temperatures. Protect from sunlight, open flame, sources of heat **Conditions to Avoid** 

and humidity.

May react with strong bases, acids or strong oxidizing agents, such as **Incompatible** 

chlorates, nitrates, peroxides. Materials

Hazardous Thermal decomposition products include carbon dioxide, carbon monoxide,

halogenated compounds and oxides of nitrogen and sulphur. **Decomposition** 

**Products** 

Possibility of No data available.

hazardous reactions

Hazardous Hazardous polymerisation is not possible.

**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) >2000 mg/kg for AMISHIELD **Acute Toxicity -**LD50 (rat) >2000 mg/kg for AMISHIELD

**Dermal** 

LC50 (rat) (4hr) >5.20 mg/l for AMISHIELD **Acute Toxicity -**

Inhalation

Not an eye irritant. Eye

Respiratory

sensitisation

**Skin Sensitisation** 

Product is not a skin sensitiser.

Germ cell

Not mutagenic (amisulbrom)

mutagenicity

NOEL (rats) 96/129 mg/kg/day (2 years) Carcinogenicity

Reproductive

No effects on reproduction.

Not a respiratory sensitiser.

NOAEL (rats) 1200/261 mg/kg/day (Reproduction, M/F) **Toxicity** 

Information not available. STOT-single

exposure

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

corrosion/irritation

The Australian Acceptable Daily Intake (ADI) for amisulbrom for a human is 0.1 Other Information

mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 11 mg/kg/day, the level determined to show no effects during long

term exposure for the most sensitive indicators and the most sensitive

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species. (Ref: Aust Govt Dept. of Health, Office of Chemical Safety, 'ADI List', March 2020).

12. Ecological information

Persistence and degradability

Amisulbrom is not persistent under field conditions. It has low potential to

bioaccumulate. Immobile in soil.

Bioaccumulative

This product is not bioaccumulative.

**Potential** 

**Mobility** 

**Other Precautions** Do not spray in high winds.

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

containers which have held this product.

**Environmental Protection** 

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

LC50 (96hr) for Onchorhynchus mykiss (Rainbow Trout) = 307µg/l for formulated product.

**Acute Toxicity - Fish** 

EC50 (48hr) Daphnia magna =  $787\mu g/L$  for formulated product.

**Acute Toxicity -Daphnia** 

**Acute Toxicity -**

ErC50 (72hr) P.subcapitata) >10,000 μg/L for formulated product.

Algae

Acute Toxicity -Other Organisms Birds: LD50 for bobwhite quail and mallard duck >2000 mg/kg for amisulbrom. Bees: LD50 (oral, contact 48 hr, Apis mellifera) >100µg/bee for amisulbrom.

Earthworm: LC50 (14 days , Eisenia foetida) >1000 mg/kg of soil.

13. Disposal considerations

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

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 **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. Information

U.N. Number

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

50%)

9 **Transport** hazard

class(es)

name

2 Z Hazchem Code

**Packing Group** III

Storage and **Transport** 

Store in cool place and out of direct sunlight.

**EPG Number** 

**IERG Number** 47

**IMO Marine Pollutant** 

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

Yes.





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National and or International Regulatory Information

Registered pursuant to the ACVM Act 1997, No. P9658 See www.foodsafety.govt.nz for registration conditions

Approved pursuant to the HSNO Act 1996, Approval Code HSR101440

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

### 16. Other Information

Date of preparation or last revision of

N/A. First Issue.

**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

...End Of MSDS...

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