

Nufarm Amishield Fungicide

Infosafe No.: 3NV5I
ISSUED Date : 31/03/2022
ISSUED by: NUFARM AUSTRALIA LIMITED.

1. Identification

GHS Product Identifier

Nufarm Amishield Fungicide

Product Code

0989

Product Type

Group 21 Fungicide

Company name

NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)

Address

103-105 Pipe Road Laverton North
Victoria 3026 Australia

Telephone/Fax Number

Tel: +61 3 9282-1000

Emergency phone number

1800 033 498 (24hr Australia)

Emergency Contact Name

www.nufarm.com.au

E-mail Address

SDSANZ@nufarm.com

Recommended use of the chemical and restrictions on use

For control of Clubroot and suppression of Damping off in Brassicas and the control of Powdery Scab and suppression of Pink Rot in Potatoes as per the Directions for Use Table.

Disclaimer

This Safety Data Sheet describes the properties of the intermediate product. 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 substance/mixture

Eye Damage/Irritation: Category 2B

Carcinogenicity: Category 2

Aquatic toxicity (chronic): Category 1

Signal Word (s)

WARNING

Hazard Statement (s)

H320 Causes eye irritation.

H351 Suspected of causing cancer.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement—General

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

P102 Keep out of reach of children.

P103 Read label before use.

Pictogram (s)

Health hazard, Environment



Precautionary statement–Prevention

P264 Wash hands and exposed skin thoroughly after handling.
P203 Obtain, read and follow all safety instructions before use.
P280 Wear eye protection.
P173 Avoid release to the environment.

Precautionary statement–Response

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P317 If eye irritation persists: Get medical help.
P318 If exposed or concerned, get medical advice.
P391: Collect spillage.

Other Information

Poisons Schedule S5

3. Composition/information on ingredients

Ingredients

Name	CAS	Proportion
Copper present as tribasic copper sulphate	12527-76-3	50 % w/w
Propane-1,2-diol	57-55-6	<10 % w/w
Other Ingredients		<=40 %

4. First-aid measures

Inhalation

If respiratory discomfort occurs, move the person to fresh air. If not breathing, give mouth-to-mouth resuscitation (or an artificial respiration). Keep warm with blanket and keep at rest. Seek emergency medical advice.

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.

Rinse mouth and then drink plenty of water.

Skin

Remove contaminated clothing and wash affected skin with soap and water.

Eye contact

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

5. Fire-fighting measures

Suitable Extinguishing Media

Water, foam, carbon dioxide or dry chemical.

Unsuitable Extinguishing Media

Water in a jet.

Hazards from Combustion Products

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

Special Protective Equipment for fire fighters

In the event of fire and/or explosion do not breathe fumes. Use self-contained breathing apparatus and wear protective clothing. Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat.

6. Accidental release measures

Spills & Disposal

Carefully sweep up and collect the spilled material using an inert absorbent material (sand, vermiculite, or sawdust) and place in a closed container for disposal. Remove (large quantities) with vacuum truck. DO not raise dust. Wash affected area with water containing detergent.

Personal Protection

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.

Environmental Precautions

Use earthen bunds or absorbent bunding to prevent spreading of spillage.

Prevent product or washings from entering drains, waterways or sewers.

7. Handling and storage

Precautions for Safe Handling

When using do not eat or drink.

Do NOT contaminate dams, rivers or streams, or any other water bodies with chemical or used containers.

Avoid contact with skin and eyes.

Conditions for safe storage, including any incompatibilities

Keep away from food, drink and animal feeding stuffs.

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

Do not store for prolonged periods in direct sunlight.

Other Information

Always read the label and any attached leaflet before use.

Use this product only for plant protection.

8. Exposure controls/personal protection

Occupational exposure limit values

None established

Appropriate engineering controls

Handle in well ventilated areas, generally natural ventilation is adequate.

Personal Protective Equipment

The following personal protective equipment should be worn.

Safety glasses, goggles or faceshield as appropriate.

Chemically resistant gloves.

Disposable dust mask.

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

Properties	Description	Properties	Description
Form	Solid - Granules	Appearance	Pale brown granular solid
Odour	Odourless	Solubility in Water	0.11 mg/L at 20 °C (amisulbrom)
Solubility in Organic Solvents	Toluene 88.6 g/L, Methanol 10.1 g/L at 20 °C (amisulbrom)	pH	5.6 in distilled water (1% w/v suspension)
Vapour Pressure	1.8 x 10 ⁻⁸ Pa at 25 °C	Volatile Component	Active ingredient is not volatile
Solubility in other solvents (kg/m ³)	Log Pow (n-octano/water) = 4.4 (amisulbrom)	Relative density	0.66 g/ml (pour density), 0.71 g/ml (tap density)

Other Information

Auto-ignition temperature: 373 °C

10. Stability and reactivity

Chemical Stability

Stable at normal temperatures and storage conditions.

Conditions to Avoid

Avoid high temperatures. Protect from sunlight, open flame, sources of heat and humidity.

Incompatible materials

May react with strong bases, acids or strong oxidizing agents such as chlorates, nitrates, peroxides.

11. Toxicological Information

Acute Toxicity - Oral

LD50 (rat) >2000 mg/kg for the formulated product

Acute Toxicity - Inhalation

LC50 (rat) (4hr) >5.2 mg/l (formulated product)

Acute Toxicity - Dermal

LD50 (rat) >2000 mg/kg for the formulated product

Skin

(rabbits): Non irritant for formulated product

Eye

(rabbits): Irritating for formulated product

Skin Sensitisation

(guinea pigs): Not skin sensitizer for formulated product.

Other Information

Toxicokinetics, metabolism and distribution (amisulbrom): Rapidly absorbed (C_{max}2-6 hr). 50% oral absorption based on biliary and urinary excretion. Rapidly distributed but, no evidence for accumulation.

Short-term oral toxicity 90 days(amisulbrom): NOEL (rats) 171/587 mg/kg/day (M/F)

Short-term oral toxicity 1 year(amisulbrom): NOEL (dogs) 100 mg/kg/day

Short-term dermal toxicity 21 days(amisulbrom): NOEL (rats) 300/1000 mg/kg/day (M/F)

Chronic 1 year (amisulbrom): NOEL (rats) 11.1/14.3 mg/kg/day

Carcinogenicity 2 years (amisulbrom): NOEL (rats) 96/129 mg/kg/day (M/F) Not carcinogenic

Reproductive toxicity (amisulbrom): NOEL (rats) 1200/261 mg/kg/day (Reproduction, M/F) No effects on reproduction

Developmental toxicity (amisulbrom): NOEL (rabbits) 300 mg/kg/day Not teratogenic

Mutagenicity (amisulbrom): Not mutagenic (Negative in in vitro & in vivo studies)

12. Ecological information

Persistence and degradability

Formulated Product: Field studies with another product (containing amisulbrom) in 5 locations in EU indicate that mean DT50 was 6.9 days.

Active ingredient amisulbrom: is hydrolytically degraded, especially rapidly under alkaline condition. Amisulbrom is readily degraded in soils and water/sediment systems.

Acute Toxicity - Fish

LC50 (96hr) for rainbow trout is 0.307 mg/l (product)

Acute Toxicity - Daphnia

EC50 (48hr) for daphnia magna is 0.787 mg/l (product).

Acute Toxicity - Algae

ErC50 (72 hr) for *P. subcapitata* is >10 mg/l (product)

NOEC: 32 µg/l (product)

Acute Toxicity - Other Organisms

The following is data for the active ingredient amisulbrom:

Toxicity to bird LD50 (Bobwhite quail and Mallard duck) >2000 mg/kg

Toxicity to bees LD50 (Oral/Contact, 48h, *Apis mellifera*) >100 µg/bee

Toxicity to earthworm LC50 (14 days, *Eisenia foetidat*) >1000 mg/kg of soil

Soil micro-organism : No long-term influence on nitrogen and carbon transformation (<25% effect)

Sewage Treatment

No inhibitory effect

13. Disposal considerations

Waste Disposal

Do not contaminate water, foodstuffs, feed or seed by disposal.

Product Disposal

Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or burned in incinerator in accordance with all applicable regulations.

Container Disposal

Completely empty container by shaking and tapping sides and bottom to loosen clinging particles.

Do not reuse container.

Triple rinse container, then puncture and dispose of by incineration in accordance with all applicable regulations.

14. Transport information

Transport Information

It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.

U.N. Number

None Allocated

UN proper shipping name

None Allocated

Transport hazard class(es)

None Allocated

Storage and Transport

Considered non dangerous for road and rail transport in packaging less than 500 kg (L) or IBCs by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Ref: ADG7.7; SP No. AU01.

For bulk shipments as Class 9, use UN 3077, HazChem code 2Z.

UN Number (Sea Transport)

3077

IMDG Class/Packing Group

Class 9; Packing Group III

IMDG Marine Pollutant (MP)

Marine Pollutant

IMDG Proper Shipping Name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(contains amisulbrom)

15. Regulatory information

Regulatory information

Australia: WHS regulations (2011) - Schedule 11: classification not listed.

Packaging & Labelling

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Other Information

APVMA product number: 88958/123025.

This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA).

16. Other Information

Date of preparation or last revision of SDS

31 March 2022

Contact Person/Point

Normal Hours: SDS Coordinator Phone: +61 3 9282 1000

After Hours: Shift Supervisor Phone: 1800 033 498

User Codes

User Title Label	User Codes
Field 4	N

Revisions Highlighted

The SDS was reviewed. Minor changes were made to the information and product has been rebranded.

END OF SDS

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