# (Ag Nova TECHNOLOGIES

#### **SAFETY DATA SHEET**

Flute 50 EW Fungicide

Date of Issue: 30 July 2021

#### 1. IDENTIFICATION

Product Flute® 50 EW Fungicide

Identifier:

Other Means of

Identification:

None

Recommended

Use of the Chemical and Restrictions on

Use:

Details of

Manufacturer or Importer:

AgNova Technologies Pty Ltd Unit 4, 482 Kingsford Smith Drive Hamilton, Qld 4007 Australia

Fungicide for agricultural use

(03) 9899 8100 agnova.com.au

**Emergency** 1800 033 111 (24 hrs)

**Phone Number:** Poisons Information Centre 13 11 26

### 2. HAZARD(S) IDENTIFICATION



Pictograms: Exclamation mark, environment

Signal Word: 'Warning'

GHS Hazard Class and Category: (as determined by Safe Work Australia)

Skin Irritation - Category 2: 'Warning'

Hazard Statement: H315 (Causes skin irritation)

Hazardous to the Aquatic Environment: Long-Term Hazard - Category 2: no signal

word

Hazard Statement: H411 (Toxic to aquatic life with long lasting effects)

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#### **Precautionary Statements:**

#### Prevention

P264 Wash hands thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear chemical resistant protective gloves.

#### Response

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P321 Specific treatment (see Safety Directions and First Aid sections on label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage

#### **Storage**

No additional information

#### **Disposal**

P501 Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively.

ADG Not classified as Dangerous Goods for Land Transport. Refer

Classification: section 14

**SUSMP** Poison Schedule 5

Classification: (Standard for Uniform Scheduling of Medicines and Poisons)

#### 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Concentration (%):
Cyflufenamid	180409-60-3	5
Alcohols, C16-18 (even numbered,	68920-66-1	10
C18-unsaturated), ethoxylated		
Other non-hazardous ingredients		balance

#### 4. FIRST AID MEASURES

If poisoning occurs, immediately contact a doctor or Poisons Information Centre (Phone 13 11 26), and follow the advice given. Show this Safety Data Sheet to a doctor.

#### **Description of Necessary First Aid Measures:**

Ingestion: Rinse mouth. Do NOT induce vomiting. Call a Poison Centre/doctor

if you feel unwell.

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**Inhalation:** Remove person to fresh air and keep comfortable for breathing. Call

a Poison Centre/doctor if you feel unwell.

**Skin Contact:** Remove contaminated clothing and shoes, and wash with plenty of

soap and water. If skin irritation occurs: Get medical

advice/attention.

Not available

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. If eye irritation

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persists: Get medical advice/attention.

First Aid Facilities:

Provide washing facilities in the workplace.

Symptoms

Exposure:

Caused by

Medical Attention and

Special
Treatment:

No special antidote. Supportive care. Treatment based on judgment

of physician in response to symptoms of patient.

#### 5. FIREFIGHTING MEASURES

**Suitable** Dry chemicals, carbon dioxide, foam or water spray.

Extinguishing Equipment:

Unsuitable extinguishing media: Not known

Specific Hazards Arising

from the Chemical:

Thermal decomposition or combustion may produce carbon dioxide,

carbon monoxide, hydrogen fluoride and nitrogen oxides.

Special Protective Equipment and Wear self-contained breathing apparatus and complete personal protective equipment. Move containers away from fire areas if it can be done without risk. If impossible to remove containers from fire

**Precautions for** zone, cool them with water spray.

Firefighters: Hazchem Code: 3Z

#### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective

Wear personal protective equipment. Refer to Section 8 for personal protective equipment. Keep away from all ignition sources. Avoid contact with skin, eyes and clothing. Avoid breathing the mist or

Flute 50 EW Fungicide

**Equipment and** 

**Emergency Procedures:**  vapours. Evacuate area. Ventilate area.

spill-site

**Environmental Precautions:** 

Prevent this product from entering into drains, ditches or rivers because this product is toxic to aquatic life with long lasting effects.

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pick-up

Methods and **Materials for** Containment and Cleaning

Up:

Sweep up, place in containers and holds for waste disposal. Use inert absorbent (e.g. sand or vermiculite) to complete pick-up if necessary. Use vacuum truck if spill is large.

Do not discharge to river, sea, lake, waterway or sewer systems directly.

after

material

out

Obey local/national/international regulations for health & safety and environmental protection when the accidental spills are treated.

#### 7. HANDLING AND STORAGE

**Precautions for** Safe Handling:

Wear personal protective equipment. Refer to Safety Directions on label and Section 8 of this SDS for personal protective equipment.

Keep out of reach of children. Do not breathe mist or vapours.

Wash hands and face thoroughly after handling. Avoid contact with skin, eyes and clothing.

**Conditions for** Safe Storage, including any Incompatibilities: Keep container tightly closed. Store in a cool, dry and wellventilated place. Avoid direct contact with water, acids or bases.

#### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards:

No exposure standard allocated

Biological **Monitoring:** 

No data available

Control

No data available

**Banding:** 

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**Engineering** When handled indoors, use general and/or local exhaust ventilation to

Controls: control vapours/mist.

Provide safety showers and eyewashes.

Individual Eye and face protection: Use safety goggles.

Skin protection: Wear suitable working clothes, hand protection and Protection Measures, for boots. Gloves material; e.g. outside: rubber, vinyl chloride resin; inside:

example, cotton, rayon.

Personal Respiratory protection: Appropriate respirator for organic vapours.

Thermal hazards: None **Protective** 

Equipment (PPE):

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Whitish emulsion solution with no separation and no floating

materials

Aromatic odour Odour:

**Melting Point/** -10~0°C (This product froze after storage at -10°C for 3 days.)

**Freezing Point:** 

103°C **Initial Boiling** 

**Point and Boiling** 

Range:

Flammability: Not applicable

Upper/Lower **Flammability** 

Limits or

**Explosive Limits:** 

Flash Point: 112°C (Cleveland open cup)

Not available

**Auto-ignition** Self-heating: None below 400°C (EU 92/69/EEC, A.15 (1992)) None below boiling point (103°C) (EU 92/69/EEC, A.9 (1992)) Temperature:

Not available **Decomposition Temperature:** 

5.0 (original), 5.7 (1% w/v dilution)(CIPAC MT75) pH:

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**Kinematic** 3.7×10<sup>-5</sup> m<sup>2</sup>/sec at 40°C (see section 16)

Viscosity:

**Solubility:** Insoluble in water

**Partition**  $\log P_{0/w} = 4.70 \text{ at } 25^{\circ}C, \text{ pH } 6.75$ 

Coefficient n-Octanol/Water:

**Vapour Pressure:**  $3.54 \times 10^{-5}$  Pa at 20°C (as active ingredient)

**Relative Density:** 1.027 g/L at 20°C (OECD 109)

Vapour Density

(air=1):

Not available

**Surface Tension:** 31.9 mN/m at 1.0 g a.s./L (20°C)

31.8 mN/m at 2.5 g a.s./L (20°C) (OECD 115)

Particle Size

**Distribution:** 

Not applicable

#### **10. STABILITY AND REACTIVITY**

**Reactivity:** The specific test data of the reactivity hazards is not available.

Chemical

Stability:

Stable under normal storage and handling conditions.

Possibility of

Hazardous Reactions:

Hazardous polymerization does not occur.

**Conditions to** 

Avoid:

High temperature.

Incompatible

Materials:

Strong oxidizing agents, strong acids or bases.

Hazardous

Decomposition

**Products:** 

Carbon oxides, nitrogen oxides, methyl sulfide, sulfur dioxide, and

hydrogen chloride.

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11.TOXICOLOGICAL INFORMATION

Acute Toxicity: Oral: LD<sub>50</sub> (rat) >5000 mg/kg

Dermal: LD<sub>50</sub> (rat) >2000 mg/kg

Inhalation: LC<sub>50</sub> (rat) >4.41 mg/L (4 h) (maximum practicable

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concentration).

**Skin Corrosion/** 

Irritation:

Dermal (rabbit): Moderate to severe (Effects are well below threshold for classification according to Regulation (EC) No.

1272/2008.)

Serious Eye

Damage/Irritation:

Eyes (rabbit): Very slight (Effects are well below threshold for classification according to Regulation (EC) No. 1272/2008.)

**Respiratory or** Dermal (guinea pig): Negative **Skin Sensitisation:** Respiratory: Not available

**Germ Cell** For the Product: Not available

Mutagenicity: Active ingredient:

Ames test: Negative

Chromosomal aberration test: Negative

Cytogenetic test (mouse lymphoma): Negative

**Carcinogenicity:** For the Product: Not available

Active ingredient: Negative (rat) Negative (mouse)

Reproductive

Toxicity:

Reproductive toxicity

For the Product: Not available

Active ingredient: Negative (rat)

**Teratogenicity** 

For the Product: Not available

Active ingredient: Negative (rat) Negative (rabbit)

Specific Target Organ Toxicity (STOT) – single exposure: Not available

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Specific Target Chronic Toxicity

Organ Toxicity For the Product: Not available

**(STOT) – repeated** Active ingredient:

exposure: NOAEL (rat): 4.4 mg/kg/day(male), 5.5 mg/kg/day(female) (2

years)

NOAEL (mouse): 62.8 mg/kg/day(male), 9.0 mg/kg/day(female)

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(1.5 years)

**Aspiration Hazard:** No data available **Other Information:** Not available

#### 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** Acute Toxicity for Fish (Rainbow trout): LC<sub>50</sub>: 9.84 mg/L (96 h)

Acute Toxicity for Daphnia: EC<sub>50</sub>: 9.48 mg/L (48 h) Acute Toxicity for Algae: ErC<sub>50</sub>: 1.628 mg/L (72 h) Chronic Toxicity for Algae: NOEC 0.395 mg/L (72 h)

**Persistence and** For the Product: Not available

**Degradability:** Active ingredient: Not readily biodegradable

**Bioaccumulative** For the Product: Not available

**Potential:** Active ingredient: BCF 528 at 10 μg/L (Mean of 10 -28 days)

**Mobility in Soil:** For the Product: Not available

Active ingredient: Low (Koc=1003~2100)

Other Adverse Hazardous to the ozone layer.

**Effects:** This product does not contain the subject to the Montreal Protocol.

#### 13. DISPOSAL CONSIDERATIONS

#### **Disposal Methods, including Disposal of Containers:**

Follow directions on label.

Product to be treated, stored, transported, and disposed of according to local regulations. Do not flush to surface water or sanitary sewer system. Refer to Section 8 of this SDS for personal protective equipment

#### **Special Precautions for Landfill or Incineration:**

None.

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#### 14. TRANSPORT INFORMATION

**Transport** Road and Rail: Not Dangerous Goods under the ADG7 when Classification:

being transported in IBCs or other receptacles <500 L (kg),

(Special Provision AU01).

Marine and Air: Classified as Dangerous Goods for transport by sea and air according to the criteria of the UN Model Regulations

on the Transport of Dangerous Goods 21st revised Edition

**UN Number:** 3082

**Proper Shipping** 

Name or Technical

Name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (Cyflufenamid mixture)

**Transport Hazard** 

Class:

9

Ш **Packing Group:** 

**Environmental** 

Hazards for **Transport Purposes:** 

Marine pollutant

Special

**Precautions for** 

User:

None specified

**Hazchem Code:** 3Z

#### 15. REGULATORY INFORMATION

**APVMA** Registered according to the Agricultural and Veterinary

Chemicals Act 1994.

APVMA Product Number: 66970

SUSMP Schedule 5



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#### **16. OTHER INFORMATION**

Prepared in accordance with Safe Work Australia's 'Preparation of safety data sheets for hazardous chemicals; Code of Practice; July 2020'

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Revision:

Preparation or

**Reason for** 5-year review.

**Revision:** Added, deleted or revised information

Section 3: Ingredient descriptions revised. Section 4: Details added to first aid measures.

Section 6: Descriptions about accidental release measures were

amended or added.

Section 7: Minor amendments.

Section 9: Regarding some items, the data were added or amended.

Section 11: Toxicological data added.

Section 12: Ecological data added. The description about hazardous

to the ozone layer was added.

Remark: Regarding Hydrocarbons, C10-C13, aromatics, <1% naphthalene: Though this product contains 18% of Hydrocarbons, C10-C13, aromatics, <1% naphthalene, the viscosity of this product was more than 7×10<sup>-6</sup> m<sup>2</sup>/s. Therefore H304 according to Regulation (EC) No 1272/2008 does not apply because the kinematic viscosity of

the product is higher than 2×10<sup>-5</sup> m<sup>2</sup>/s at 40°C.

**Abbreviations** 

ADG7 – Australian Dangerous Goods Code for Transport by Road and Rail. 7<sup>th</sup> Edition

and and Acronyms: AP\

APVMA – Australian Pesticides and Veterinary Medicines Authority

GHS – Globally Harmonized System of Classification and Labelling of

Chemicals

IBC – Intermediate Bulk Container

SUSMP – Standard for the Uniform Scheduling of Medicines and

**Poisons** 

Data Sources: Manufacturer product safety data and published data

This SDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

The opinions expressed herein are those of qualified experts with the manufacturer. Since the use of this information and of these opinions and the conditions of use of this product are not

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within the control of AgNova Technologies Pty Ltd, it is the user's obligation to determine the conditions of safe use of the product.

**END OF SDS**