SAFETY DATA SHEET

Section 1 - Identification

Product identifier **Flute® 50 EW Fungicide**

Other means of identification

SDS No. 915

Recommended use of the chemical and restrictions on use

Recommended use Fungicide.

Restrictions on use No other uses are advised.
Keep out of the Reach of Children!

Details of manufacturer or importer

Company name AgNova Technologies Pty Ltd

Address Unit 4, 482 Kingsford Smith Drive
Hamilton, Queensland 4007
Australia

Telephone AgNova Technologies Pty Ltd 03 9899 8100 (office hours)

Website agnova.com.au

E-mail info@agnova.com.au

Emergency phone number IXOM ERS 1800 033 111 (24 hours)
Poisons Information Centre 13 11 26

Section 2 - Hazard(s) identification

Classification of the hazardous chemical

Physical hazards	Not classified.	
Health hazards	Skin corrosion/irritation	Category 2
	Sensitisation, skin	Category 1
Environmental hazards	Hazardous to the aquatic environment, long-term hazard	Category 2

Label elements, including precautionary statements

Hazard symbol(s)

Exclamation mark Environment

Signal word Warning

Hazard statement(s) Causes skin irritation.
May cause an allergic skin reaction.
Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

Prevention Avoid breathing mist/vapours/spray.
Wash thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment.
Wear protective gloves.

Response IF ON SKIN: Wash with plenty of water. Specific treatment (see Safety Directions and First Aid sections on label). If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Collect spillage.

Storage	Not assigned.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Supplemental information	This is a pesticide product registered in Australia under the Australian Pesticides and Veterinary Medicines Authority (APVMA) and is subject to certain labeling requirements. These requirements may differ from the classification criteria and hazard information required for GHS compliant safety data sheets (SDS), and for workplace labels of non-pesticide chemicals.
Other hazards which do not result in classification	None known.

Section 3 - Composition and information on ingredients

Mixture

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients
Fatty alcohol ethoxylate	68920-66-1	10 - < 20
Solvent naphtha (petroleum), heavy aromatic Aromatic Solvent	64742-94-5	10 - < 20
CYFLUFENAMID	180409-60-3	5 - < 10
Polyethylene glycol	99734-09-5	5 - < 10
Polyoxyethylene tristylylphenylether phosphate	90093-37-1	1 - < 3
Benzisothiazolinone	2634-33-5	< 0.1
Inert ingredients	N/A	balance

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Section 4 - First aid measures

Description of necessary first aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell.
Skin contact	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
Eye contact	Rinse eyes with water as a precaution. If eye irritation persists: Get medical advice/attention.
Ingestion	Call a POISON CENTRE or doctor/physician if you feel unwell.
Personal protection for first-aid responders	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.
Symptoms caused by exposure	Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.
Medical attention and special treatment	Treat symptomatically.

Section 5 - Firefighting measures

Extinguishing media

Suitable extinguishing equipment	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing equipment	Do not use a solid water stream as it may scatter and spread fire.
Specific hazards arising from the chemical	Toxic fumes may be released.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Hazchem code	•3Z

General fire hazards No unusual fire or explosion hazards noted.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

Section 6 - Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Avoid breathing mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material.

For emergency responders Keep unnecessary personnel away. Ensure adequate ventilation. Avoid breathing mist/vapours. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Environmental precautions Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Avoid discharge into drains, water courses or onto the ground.

Methods and materials for containment and cleaning up The product is immiscible with water and will sediment in water systems. Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. The product is insoluble in water.

Section 7 - Handling and storage

Precautions for safe handling Use only outdoors or in a well-ventilated area. Avoid contact with eyes, skin, and clothing. Avoid breathing mist/vapours. Wear personal protective equipment. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink, or smoke when using this product. Wash hands after handling and before eating.

Conditions for safe storage, including any incompatibilities Keep container tightly closed. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Avoid direct contact with water, acids or bases.

Section 8 - Exposure controls and personal protection

Control parameters Follow standard monitoring procedures.

Occupational exposure limits

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG), as updated

Components	Type	Value	Form
Solvent naphtha (petroleum), heavy aromatic (CAS 64742-94-5)	TWA	5 mg/m3	Respirable aerosol fraction
		350 mg/m3	Vapour.
		50 ppm	Vapour.

Biological limit values No biological exposure limits noted for the ingredient(s).

Exposure guidelines No exposure standards allocated.

Control banding Not available.

Engineering controls Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other	Wear appropriate chemical resistant clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	None known.
Hygiene measures	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

Section 9 - Physical and chemical properties

Physical state	Liquid.
Form	Emulsion, oil-in-water.
Colour	Whitish.
Odour	Aromatic.
Odour threshold	Not available.
pH	5
Melting point/freezing point	-10 - 0 °C (14 - 32 °F) (This product froze after storage at -10°C for 3 days.)
Boiling point and boiling range	103 °C (217.4 °F)
Flash point	112 °C (233.6 °F)
Evaporation rate	Not available.
Upper/lower explosive limits	
Explosion limit - lower (%)	Not available.
Explosion limit - upper (%)	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	1.027
Solubility	
Solubility (water)	Insoluble in water
Flammability (solid, gas)	Not applicable.
Partition coefficient: n-octanol/water	4.7
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Particle characteristics	Not available.
Data relevant with regard to physical hazard classes	No relevant additional information available.
Other physical and chemical parameters	
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

Section 10 - Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	None under normal conditions.
Incompatible materials	Strong oxidising agents. Strong acids. Strong bases.
Hazardous decomposition products	No dangerous reaction known under conditions of normal use.

Section 11 - Toxicological information

Information on possible routes of exposure

Inhalation	Not available.
Skin contact	Causes skin irritation. May cause an allergic skin reaction.
Eye contact	Not available.
Ingestion	Not available.
Early onset symptoms related to exposure	Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.
Delayed health effects from exposure	Not available.
Acute toxicity	Based on available data, the classification criteria are not met.

Components	**Species**	**Test Results**
Benzisothiazolinone (CAS 2634-33-5)		
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg
Solvent naphtha (petroleum), heavy aromatic (CAS 64742-94-5)		
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg
Inhalation		
LC50	Rat	> 5200 mg/m3, 4 Hours

Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Not classified. Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	
Respiratory sensitisation	Not classified. Based on available data, the classification criteria are not met.
Skin sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Not classified. Based on available data, the classification criteria are not met.
Carcinogenicity	Not classified. Based on available data, the classification criteria are not met.
Reproductive toxicity	Not classified. Based on available data, the classification criteria are not met.
Specific target organ toxicity - single exposure	Not classified. Based on available data, the classification criteria are not met.
Specific target organ toxicity - repeated exposure	Not classified. Based on available data, the classification criteria are not met.
Aspiration hazard	Not classified. Based on available data, the classification criteria are not met.

Section 12 - Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects.

Components		**Species**	**Test Results**
Benzisothiazolinone (CAS 2634-33-5)			
Aquatic			
Crustacea	EC50	Daphnia magna	4.4 mg/l, 48 h
Fish	LC50	Rainbow trout (Oncorhynchus mykiss)	0.8 mg/l, 96 h
Acute			
Fish	LC50	Bleak (Alburnus alburnus)	8 - 13 mg/l, 96 hours

Persistence and degradability	Not available.
Bioaccumulative potential	Not available.

Mobility in soil	Not available.
Other adverse effects	Not available.

Section 13 - Disposal considerations

Disposal methods	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Residual waste	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14 - Transport information

ADG

UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CYFLUFENAMID)
Transport hazard class(es)	
Class	9
Subsidiary hazard	-
Packing group	III
Environmental hazards	Yes
Hazchem code	•3Z
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

RID

UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CYFLUFENAMID)
Transport hazard class(es)	
Class	9
Subsidiary hazard	-
Packing group	III
Environmental hazards	Yes
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

IATA

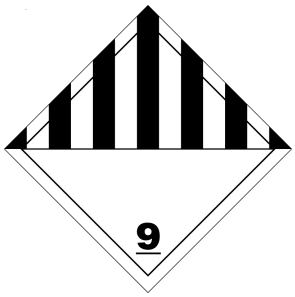
UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CYFLUFENAMID)
Transport hazard class(es)	
Class	9
Subsidiary hazard	-
Packing group	III
Environmental hazards	Yes
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CYFLUFENAMID), MARINE POLLUTANT (CYFLUFENAMID)
Transport hazard class(es)	
Class	9
Subsidiary hazard	-
Packing group	III
Environmental hazards	
Marine pollutant	Yes
EmS	Not assigned.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not established.

ADG; IATA; IMDG; RID



Marine pollutant

Section 15 - Regulatory information

Safety, health and environmental regulations

National regulations

This Safety Data Sheet was prepared in accordance with Australia Model Code of Practice for the preparation of Safety Data Sheets for Hazardous Chemicals.
Poison Schedule: S5
Signal Word CAUTION

Australia Medicines & Poisons Schedule 5

CYFLUFENAMID (CAS 180409-60-3)
Solvent naphtha (petroleum), heavy aromatic (CAS 64742-94-5)

High Volume Industrial Chemicals (HVIC)

Not listed.

Importation of Ozone Depleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10, as amended)

Not listed.

National Pollutant Inventory (NPI) substance reporting list

Not listed.

Prohibited Carcinogenic Substances

Not regulated.

Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)

Not listed.

Restricted Carcinogenic Substances

Not regulated.

Restricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)

Not listed.

International regulations

Stockholm Convention

Not listed.

Rotterdam Convention

Not listed.

Kyoto Protocol

Not listed.

Montreal Protocol

Not listed.

Basel Convention

Not listed.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Section 16 - Any other relevant information

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