


Reason



Section 1: Identification

Product name:	Reason
Other names:	05947073, Fenamidone SC 500 G, U-WW
Recommended use:	Foliar fungicide
Manufacturer/Importer details:	Agritrade 411 Blenheim Road Sockburn Christchurch 8140 New Zealand Phone: 03 341 4587
24 hour emergency contact:	0800 CHEMCALL (0800 243 622)
National Poison Centre:	0800 POISON (0800 764 766)

Section 2: Hazard identification

	Product is classified as hazardous according to the Hazardous Substances (Classification) Notice 2017 of the HSNO Act, 1996.
HSNO Approval:	HSR001758
Hazardous classification:	6.9B, 9.1A, 9.2D 
Signal word:	WARNING
Hazard statements:	H373: May cause damage to organs through prolonged or repeated exposure. H410: Very toxic to aquatic life with long lasting effects. H423: Harmful to the soil environment
Additional label requirements:	Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area Do not apply directly into or onto water
Prevention statements:	P103: Read label before use P260: Do not breathe dust/fumes/gas/mist/vapours/spray P273: Avoid release to the environment
Response statements:	P314: Get medical advice/attention if you feel unwell. P391: Collect spillage
Storage statement/s:	No storage statements

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Disposal statement/s: P501 Dispose of product and containers in accordance with local Regulations. See section 13 for more details.

Section 3: Composition/information on ingredients

Chemical identity of ingredients with health or environmental hazards:

<i>Ingredient</i>	<i>CAS No.</i>	<i>Proportion w/w</i>
Fenamidone	161326-34-7	44 – 45%
Ethoxylated polyarylphenol	99734-09-5	1.0 – 10 %
1,2-Propanediol	57-55-6	≥ 1.0 <5.0
1,2-Benzisothiazol-3(2H)-one	2634-33-5	0.005 - 0.05%

Section 4: First-aid measures

First aid measures:	Move away from the area where the substance has been spilt/the accident has occurred. Remove any contaminated clothing. Seek medical advice if you feel unwell.
Inhalation:	Move to fresh air if inhaled. Seek medical attention if you feel unwell.
Ingestion:	Do not induce vomiting. Seek medical attention if you feel unwell.
Skin contact:	Wash off with plenty of soap and water. Seek medical advice if you have an adverse reaction.
Eye contact:	Rinse immediately with plenty of water. Seek medical advice if you have an adverse reaction.
First aid facilities:	Provide eye baths and safety showers close to areas where product contact or splashing may occur.
Advice to doctor:	Treat symptomatically.

Section 5: Fire-fighting measures

Flammability:	Not classified as flammable
Appropriate extinguishing media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Avoid using high volume water jet.
Combustion products:	In the event of a fire, carbon monoxide, nitrogen oxides and sulphur oxides may be released.
Special protective equipment and precautions for fire-fighters:	In the event of a fire/explosion, do not breathe fumes. In the event of fire, wear self-contained breathing apparatus. Contain the spread of the fire-fighting media. Do not allow run-off from fire fighting to enter drains or water courses.
HAZCHEM code:	3Z

Section 6: Accidental release measures

Personal precautions:	Avoid contact with spilled product or contaminated surfaces. Remove all sources of ignition. Use full personal protective equipment.
Environmental precautions:	Do not allow to enter surface water, drains and ground water. Notify local authority if contamination of any waterway.
Procedure for clean up:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Wash contaminated area with water and detergent, absorb and put in container for disposal. Dispose of contaminated waste at an approved facility.

Section 7: Handling and storage

Safe handling:	Keep away from heat and sources of ignition. Ensure adequate ventilation. No specific precautions required when handling unopened packs/containers. When handling, wear full protective clothing. Mixing, loading and application must only be undertaken by a suitably qualified handler (See section 16 for further details).
Safe storage:	Store in original container tightly closed and in a secure, locked, dry, cool, well-ventilated area, away from foodstuffs. Keep away from direct sunlight, and protect from freezing.

Section 8: Exposure controls/personal protection

Occupational exposure limits:

<i>Ingredient</i>	<i>Form of exposure</i>	<i>WES-TWA</i>	<i>WES-STEL</i>
*Fenamidone	Inhalation	1mg/m ³	
1,2-Propanediol (Particulate)	Inhalation	10mg/m ³	
1,2-Propanediol (Vapour and particulates)	Inhalation	474mg/m ³ 150ppm	

* This is not a regulatory standard, but is advised by the manufacturer

Note: It is recommended that airborne concentrations should be kept below 3 mg/m³ for respirable particulates and 10 mg/m³ for inhalable particulates.

Biological limit value:	None set as of 11 th edition of WorkSafe's Workplace Exposure Standards and Biological Exposure Indices – November 2019
Engineering controls:	Use with adequate ventilation, i.e. outdoors.
Respiratory protection:	Not required if used outdoors with adequate ventilation. If risk of inhalation, wear respirator fitted with suitable filter.
Hand protection:	Wear chemical resistant gloves, e.g. nitrile.

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Eye protection:	Chemical goggles, safety glasses with side shields or face shield
Skin protection:	Chemical resistant coveralls and closed in boots.
General hygiene:	Do not eat, drink or smoke while using. Wash hands and exposed skin thoroughly with soap and water before meals and after work. Wash protective clothing daily after work.
Personal Protection:	Further information on specific types of personal protective gear and related standards is available in Section 16.

Section 9: Physical and chemical properties

(a)	Appearance:	White to light beige suspension liquid
(b)	Odour:	Not available
(c)	Odour threshold:	Not available
(d)	pH:	6.5 – 8 (100% solution @ 23°C)
(e)	Melting point/freezing point:	Not available
(f)	Initial boiling point and boiling range:	Not available
(g)	Flash point:	>100°C
(h)	Flammability (solid, gas):	Not classified as flammable
(i)	Upper/lower flammability or explosive limits:	Not available
(j)	Vapour pressure:	Not available
(k)	Vapour density:	Not available
(l)	Relative density:	1.13 g/cm ³ @ 20°C
(m)	Solubility:	Dispersible
(n)	Partition coefficient n-octanol/water:	Fenamidone: log Pow: 2.8
(o)	Auto-ignition temperature:	Not available
(p)	Decomposition temperature:	Not available
(q)	Kinematic viscosity:	500 – 900 mPa.s

Section 10: Stability and reactivity

Stability of the substance:	Stable under normal conditions of storage and use.
Conditions to avoid:	Extremes of temperature and light.
Incompatible materials:	No particular incompatible materials. Store only in the original container.
Hazardous decomposition products:	No decomposition products expected under normal conditions of use.

Section 11: Toxicological information

Toxicity classifications determined by assessment of the components in the formulated mixture.		
(i)	Acute toxicity:	Not classified as acutely toxic
(ii)	Aspiration hazard:	Not classified as aspirant hazard
(iii)	Respiratory irritation:	Not classified as irritating to mucous membranes and respiratory tract.
(iv)	Skin corrosion / irritation:	Not classified as skin irritant or corrosive.
(v)	Serious eye damage / irritation:	Not classified as eye irritant or corrosive.
(vi)	Respiratory or skin sensitisation:	Not classified as a respiratory or contact sensitizer.
(vii)	Germ cell mutagenicity:	Not classified for mutagenic effects.
(viii)	Carcinogenicity:	Not classified for carcinogenic effects.
(ix)	Reproductive toxicity:	Not classified for reproductive toxicity.
(x)	Specific organ toxicity:	Classified as may cause damage to organs or systems from prolonged or repeated exposure.
(xi)	Narcotic effects:	Not classified for narcotic effects.
Toxicological information for product:		
	Oral LD ₅₀ (rat)	> 5000 mg/kg
	Dermal LD ₅₀ (rat)	> 5000 mg/kg
	Inhalation LD ₅₀)	> 0.9 mg/L
	Skin irritation (Rabbit)	Non irritant
	Eye irritation (Rabbit)	Irritating to eyes, but not to degree to be classified accordingly under HSNO.
	Sensitisation (Guinea pig)	Non sensitizer

Section 12: Ecological information

Ecotoxicological classifications determined by assessment of the components in the formulated mixture.		
(a)	Aquatic toxicity:	Very toxic to aquatic life with long lasting effects
(b)	Soil environment	Harmful to the soil environment.
(c)	Terrestrial vertebrate toxicity:	Not classified.
(d)	Terrestrial invertebrate toxicity:	Not classified.
(e)	Persistence and degradability:	Fenamidone is not rapidly biodegradable. Koc: 387
(f)	Potential to be bioaccumulative:	Fenamidone does not bioaccumulate
(g)	Mobility in soil:	Fenamidone is moderately mobile in soils
Ecotoxicological information for Fenamidone:		
	96hr LC ₅₀ (Rainbow trout)	0.74 mg/kg
	48hr LC ₅₀ (<i>Daphnia magna</i>)	0.055 mg/L
	72hr EC ₅₀ (Green algae)	3.4 mg/L - active

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Section 13: Disposal considerations	
Product disposal:	Dispose of this product only by using according to the label or through Agrecovery chemical disposal or similar approved service or to an approved landfill.
Container disposal:	Recycle through Agrecovery if possible or appropriate recycling facility. Alternatively, crush and bury in an approved landfill. Do not use container for any other purpose. Avoid contamination of any water supply or stream with product or empty container.
Section 14: Transport information	
UN number:	3082
UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S. (FENAMIDONE SOLUTION)
UN class:	9
Packing group:	III
Subsidiary risk:	-
HAZCHEM\:	3Z
Environmental hazards:	Marine Pollutant
Special precautions:	-
<p>This product is classified as a Dangerous Good. Consult the Land Transport Rule: Dangerous Goods 2005 and NZS 5433:2012 Transport of Dangerous Goods on Land for more information</p>	
Section 15: Regulatory information	
HSNO:	Approved substance under the HSNO Act 1996.
HSNO approval number:	HSR001758
Tolerable exposure limit / environmental exposure limit:	None set at this time
HSNO controls:	See www.epa.govt.nz
Additional controls:	<p>The substance must not be applied onto or into water</p> <p>The method of application shall be limited to ground based application only.</p> <p>The following maximum application rate applies: 150 g ai/ha, up to 4 times per season.</p>
ACVM:	Registered under the Agricultural Compounds Veterinary Medicines Act 1997.
ACVM registration number:	P007433
Conditions of registration:	See www.foodsafety.govt.nz
Section 16: Other information	

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Date of issue:	13/07/2020
Reason for reissue:	Change of distributor. New SDS.
Replaces:	Not applicable
Information references:	Supplier Safety Data Sheet NZ EPA Approved hazardous substances with controls Workplace Exposure Standards and Biological Exposure Indices
Abbreviations:	ACVM: Agricultural Chemicals and Veterinary Medicines Group HSNO: Hazardous substances and New Organisms Act 1996 (HSNO Act) EPA: Environmental Protection Authority of New Zealand CAS Number: Chemical Abstracts Service Number LD50: Lethal Dose 50% (Population) LC50: Lethal Concentration 50% (Population) WES-TWA: Workplace exposure standards – Time-weighted average WES-STEL: Workplace exposure standards – Short-term exposure limit
Personal Protection Standards:	The following Standards provide general advice regarding safety clothing and equipment: Respiratory equipment: AS/NZS 1715 , Protective Gloves: AS 2161 , Occupational Protective Clothing: AS/NZS 4501 , Industrial Eye Protection: AS1336 and AS/NZS 1337 , Occupational Protective Footwear: AS/NZS2210
Qualifications for handling:	This product must only be handled, including mixing and loading, by persons who are suitably qualified. These qualifications are specified in sections 60 and 63 of the EPA's Hazardous Substances (Hazardous Property Controls) Notice 2017.

The data provided in this safety data sheet is based on current knowledge and experience. The purpose of this document is to describe the product in terms of its safety requirements. The above details do not imply any guarantee concerning composition, properties or performance of the product.