


Section 1: Identification

Product name:	Fruitfed MH™
Other names:	Soluble concentrate containing 270 g/L maleic hydrazine as the potassium salt.
Recommended use:	Sprout inhibitor for onions and potatoes.
Distributor/Importer details:	Fruitfed Supplies (part of PGG Wrightson Ltd) 1 William Pickering Drive Albany, Auckland 0632 New Zealand Phone: 09 448 0510
24 hour emergency contact:	0800 CHEMCALL (0800 243622)
National Poisons Centre:	0800 POISON (0800 764766)

Section 2: Hazard identification

	Product is classified as hazardous according to the Hazardous Substances (Classification) Notice 2017 of the HSNO Act, 1996.
HSNO Approval:	HSR000798
Hazardous classification:	9.2A
Pictograms:	
Signal word:	WARNING
Hazard statements:	H421 Very toxic to the soil environment.
Prevention statements:	P103 Read label before use. P273 Avoid release to the environment.
Response statements:	P391 Collect spillage.
Storage statements:	-
Disposal statement:	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>
	Maleic hydrazide potassium salt	51542-52-0	22 – 23*
	Other ingredients	Proprietary	Balance
*as maleic hydrazide			
Section 4: First-aid measures			
First aid measures:	If medical advice is needed, have product label or container at hand.		
Inhalation:	Move to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, oxygen may be beneficial if administered by trained personnel if instructed by a doctor. Call a POISON CENTRE or doctor for further treatment advice.		
Skin contact:	Take off contaminated clothing. Rinse skin with plenty of water, then wash with soap and water. Seek medical attention if irritation occurs. Wash contaminated clothing before reuse.		
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.		
Ingestion:	Treat symptomatically.		
First aid facilities:	Emergency shower and eye wash stations to be available near to where contact may occur.		
Section 5: Fire-fighting measures			
Flammability:	Not flammable.		
Appropriate extinguishing media:	Water spray/fog, dry chemical, dry sand or carbon dioxide.		
Combustion products:	Smoke, and toxic/harmful compounds (including carbon oxides, nitrogen oxides) if heated to decomposition.		
Special protective equipment and precautions for fire-fighters:	Wear full fire-fighting chemical protection suit and respiratory protection (self-contained breathing apparatus). In fire situations involving the surrounding area, cool the product containers with plenty of water. Move containers if safe to do so.		
HAZCHEM code:	2Z		
Section 6: Accidental release measures			
Personal precautions:	Wear appropriate personal protective equipment (refer to section 8).		
Environmental precautions:	Avoid contamination of waterways, drains, sewers. If contamination occurs, immediately inform the local authorities.		

Procedure for clean up:	Contain and collect spillage. Absorb with suitable inert material (sand, earth, vermiculite, clay) and recover to labelled drum that can be sealed and disposed of to an approved landfill. Wash spill site with water but prevent contamination of waterways.
Section 7: Handling and storage	
Safe handling:	Read label before use. For professional users only. Certified Handler required. Handle with appropriate personal protective equipment (refer to Section 8). Avoid contact with eyes and skin. Wash hands thoroughly after handling. Wash clothes before reuse. Follow good industrial hygiene practices for ventilation and clean-up.
Safe storage:	Keep container tightly closed in a dry, cool, well-ventilated place and away from food, drink and animal feedstuffs.
Section 8: Exposure controls/personal protection	
Occupational exposure limits:	A NZ Workplace Exposure Standard (WES) have not been set for this product.
Engineering controls:	Not necessary as product is for use outdoors.
Respiratory protection:	Not necessary if ventilation is adequate otherwise wear an approved dust mask for particulates.
Hand protection:	Rubber, PVC, neoprene, nitrile gloves.
Eye protection:	Safety goggles.
Skin protection:	Long-sleeved shirt and long pants or overalls, and shoes/boots plus socks.
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 and dry protective clothing before reuse.
Section 9: Physical and chemical properties	
(a) Appearance:	Yellow liquid.
(b) Odour:	Odourless.
(c) Odour threshold:	No data available.
(d) pH:	7.0-8.0
(e) Melting point/freezing point:	Not applicable.
(f) Initial boiling point and boiling range:	104.4°C
(g) Flash point:	Not flammable.
(h) Flammability (solid, gas):	Not applicable.

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(i)	Upper/lower flammability or explosive limits:	Not applicable.
(j)	Vapour pressure:	Not determined.
(k)	Vapour density:	Not determined.
(l)	Density:	1.19 g/cm ³
(m)	Solubility:	Soluble in water
(n)	Partition coefficient: n-octanol/water:	Not determined.
(o)	Auto-ignition temperature:	Not determined.
(p)	Decomposition temperature:	Not determined.
(q)	Kinematic viscosity:	Not determined.
Section 10: Stability and reactivity		
Stability of the substance:		Stable under normal conditions of storage and use.
Conditions to avoid:		Avoid storage in high temperatures; exposure to heat and sources of ignition.
Incompatible materials:		Acid compounds/mixtures.
Hazardous decomposition products:		Toxic and irritant fume/gases (included carbon oxides and nitrogen oxides).
Section 11: Toxicological information		
		Toxicity classifications determined by assessment of the components in the formulated mixture.
a)	Acute toxicity:	Not classified as acutely toxic if ingested, by skin contact or inhaled.
b)	Aspiration hazard:	Not classified as aspirant hazard.
c)	Respiratory irritation:	Not classified as respiratory irritant.
d)	Skin corrosion / irritation:	Not classified.
e)	Serious eye damage / irritation:	Not classified.
f)	Respiratory or skin sensitisation:	Not classified for sensitisation effects.
g)	Germ cell mutagenicity:	Not classified as mutagenic.
h)	Carcinogenicity:	Not classified as carcinogenic.
i)	Reproductive toxicity:	Not classified as a reproductive toxicant.
j)	Specific organ toxicity:	Not classified as a specific organ toxicant.
k)	Narcotic effects:	Not classified.
l)	Other adverse effects:	No information.

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Toxicological information for product:	Oral LD ₅₀ >5000 mg/kg bodyweight Dermal LD ₅₀ >2000 mg/kg bodyweight
Section 12: Ecological information	
	Ecotoxicological classifications determined by assessment of the components in the formulated mixture and product studies.
(a) Aquatic toxicity:	Not classified as ecotoxic to aquatic life.
(b) Soil toxicity:	Very ecotoxic; used as sprout inhibitor.
(c) Terrestrial vertebrate toxicity:	Not classified. Bobwhite quail and mallard duck; LD ₅₀ >10,000 mg/kg
(d) Terrestrial invertebrate toxicity:	Not classified.
(e) Persistence and degradability:	Rapidly biodegradable.
(f) Potential to be bioaccumulative:	Low bioaccumulation potential.
(g) Mobility in soil:	Product is soluble in water.
(h) Other adverse effects:	No information available.
Ecotoxicity:	Bluegill sunfish; LC ₅₀ (96h) 1608 mg/L Rainbow trout; LC ₅₀ (96h) 1608 mg/L <i>Daphnia magna</i> ; EC ₅₀ (48h) 107 mg/L
Section 13: Disposal considerations	
Product disposal:	Dispose of this product only by using according to the label or through Agrecovery chemical disposal or to approved landfill. Do not allow material to contaminate ground water system or surface water.
Container disposal:	Recycle through Agrecovery if possible or appropriate recycling facility. 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:	Not applicable.
UN proper shipping name:	Not applicable.
UN class:	Not applicable.
Packing group:	Not applicable.
HAZCHEM:	2Z
Marine pollutant:	No.
Special precautions:	-
Section 15: Regulatory information	
HSNO:	Approved substance under the HSNO Act 1996.
Substance approval number:	HSR000798; Soluble concentrate containing 270 g/L maleic hydrazide.



Tolerable exposure limit / environmental exposure limit:	None set.
HSNO controls:	See www.epa.govt.nz
Additional controls:	Qualified trained handler required. This substance must not be applied onto or into water.
ACVM:	Registered under the Agricultural Compounds Veterinary Medicines Act 1997.
Registration number:	P9244
Conditions of registration:	See www.foodsafety.govt.nz
Section 16: Other information	
Date of issue:	26/03/2019
Reason for reissue:	Review of SDS format and product information.
Replaces:	SDS dated 30 July 2015.
Information references:	Supplier Safety Data Sheet NZ EPA Approved hazardous substances databases 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
Tradename:	Fruitfed MH™ is a trademark of Fruitfed Supplies.

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.