

Fruitfed MH™

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) Building 2, 1 William Pickering Drive Albany, Auckland 0632 New Zealand
24 hour emergency contact: National Poisons Centre:	0800 CHEMCALL (0800 243622) 0800 POISON (0800 764766)

Section 2: Hazard identification

	Product is classified as hazardous according to the Hazardous Substances (Classification) Notice 2020 of the HSNO Act, 1996.
HSNO Approval:	HSR000798
Hazardous classification:	Hazardous to soil organisms
Pictograms:	
Signal word:	WARNING
Hazard statements:	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

Fruitfed MH™

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 persists. 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:	Rinse mouth. 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 non-specified toxic/harmful compounds (includes carbon and 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:	-
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 spillage. Collect spill and absorb residues with suitable inert material 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. Handle with appropriate personal protective equipment (refer to Section 8). Avoid contact with eyes and skin. Wash hands thoroughly after handling. Wash protective clothing 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.

Fruitfed MH™

Section 8: Exposure controls/personal protection

Occupational exposure limits:	A NZ Workplace Exposure Standard (WES) has not been set for any component in 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 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:	Odorless
(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:	Non-flammable
(h) Flammability (solid, gas):	Not applicable
(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 available for product
(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)

Fruitfed MH™

Section 11: Toxicological information

		Toxicity classifications determined by studies or 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 as irritant.
e)	Serious eye damage / irritation:	Not classified as irritant.
f)	Respiratory or skin sensitisation:	Not classified as sensitising.
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.
m)	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.
(i)	Ecotoxicity data:	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.
-------------------	--

Fruitfed MH™

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:	-																						
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:	This substance must not be applied onto or into water.																						
	<table> <tr> <td>Qualifications</td> <td>No</td> </tr> <tr> <td>Tracking:</td> <td>No</td> </tr> <tr> <td>Safety Data Sheet:</td> <td>Any quantity</td> </tr> <tr> <td>Restricted to workplace only:</td> <td>No</td> </tr> <tr> <td>Quantity that must be secured when unattended:</td> <td>-</td> </tr> <tr> <td>Fire extinguishers</td> <td>-</td> </tr> <tr> <td>Quantity for secondary containment and emergency response plan:</td> <td>-</td> </tr> <tr> <td>Quantity for signage:</td> <td>-</td> </tr> <tr> <td>Quantity for Location certificate</td> <td>-</td> </tr> <tr> <td>Records of use (3 kg or more applied to area within 24 hours)</td> <td>Yes</td> </tr> <tr> <td>Quantity that requires management in accordance with HSW HS Regulations Hazardous Substances (Packaging) Notice 2017; Clause 9</td> <td>UN Pack Group III</td> </tr> </table>	Qualifications	No	Tracking:	No	Safety Data Sheet:	Any quantity	Restricted to workplace only:	No	Quantity that must be secured when unattended:	-	Fire extinguishers	-	Quantity for secondary containment and emergency response plan:	-	Quantity for signage:	-	Quantity for Location certificate	-	Records of use (3 kg or more applied to area within 24 hours)	Yes	Quantity that requires management in accordance with HSW HS Regulations Hazardous Substances (Packaging) Notice 2017; Clause 9	UN Pack Group III
Qualifications	No																						
Tracking:	No																						
Safety Data Sheet:	Any quantity																						
Restricted to workplace only:	No																						
Quantity that must be secured when unattended:	-																						
Fire extinguishers	-																						
Quantity for secondary containment and emergency response plan:	-																						
Quantity for signage:	-																						
Quantity for Location certificate	-																						
Records of use (3 kg or more applied to area within 24 hours)	Yes																						
Quantity that requires management in accordance with HSW HS Regulations Hazardous Substances (Packaging) Notice 2017; Clause 9	UN Pack Group III																						
ACVM:	Registered under the Agricultural Compounds Veterinary Medicines Act 1997.																						
Registration number:	P9244																						
Conditions of registration:	See www.foodsafety.govt.nz																						

Fruitfed MH™

Section 16: Other information

Date of issue:	09/05/2024
Reason for reissue:	SDS review and updated to GHS classification .
Replaces:	SDS dated 14/03/2019.
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 registered 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.