

# SAFETY DATA SHEET

## KASUMIN

Date of Issue: 16th October 2015

### 1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

**Chemical name of active ingredient(s):** KASUMIN

**Recommended use:** Agricultural Fungicide/Bactericide

**Supplier:** Etec Crop Solutions Limited  
31 Tamaki Bay Drive, Pakuranga  
Auckland  
Phone 0800 100 325

**Emergency telephone number:** 0800 Poison (0800 764 766) 24 Hours

### 2. HAZARDS IDENTIFICATION

**HSNO Classification:** 6.1E, 6.8B, 6.9B

**CAUTION. May be harmful if inhaled or absorbed through the skin.** Avoid skin contact and inhalation of spray mist.

**WARNING:** Reproductive/developmental toxicant. Target organ systemic toxicant. Regular exposure to high doses may result in damage to the reproductive system and kidneys.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance/preparation Information on hazardous ingredients

Common name	CAS No	%
Kasugamycin hydrochloride hydrate	19408-46-9	2.3

### 4. FIRST-AID MEASURES

## Description of necessary first aid measures:

### Effects and symptoms

#### First-aid measures

##### **Inhalation:**

Inhalation: Move person to fresh air. If person is not breathing, call 9-1-1 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control centre or doctor for treatment advice.

##### **Ingestion:**

Ingestion: Call a poison control centre or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control centre or doctor. Do not give anything by mouth to an unconscious person.

##### **Skin contact:**

Skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

##### **Eye contact:**

Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continuing rinsing the eye. Call a poison control centre or doctor for treatment advice.

##### **Notes to a physician:**

No specific antidote known. Treat symptomatically.

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## 5. FIRE-FIGHTING MEASURES

### **HAZCHEM Code:**

1Y

### **Extinguishing media :**

Water spray, dry sand, carbon dioxide, dry chemical powder, foam, etc. Applying direct water may be dangerous because fire may expand to surroundings.

### **Hazardous thermal (de)composition products:**

Not flammable. None known

### **Protection of fire-fighters:**

Wear suitable self-contained breathing apparatus and heat resistant protective clothing for eyes and skin.

### **Exposure Hazards:**

Take appropriate measures to prevent the release of hazardous materials into the environment during the firefighting work.  
Irritating, corrosive or toxic gases may be generated by fire.

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## 6. ACCIDENTAL RELEASE MEASURES

### **Personal precautions:**

Avoid contact with skin. Wear protective clothing and personal protective equipment as described in section 8. Keep unprotected persons and animals out of the area.

### **Environmental precautions:**

If spilled indoors, ventilate well until cleaned up. Avoid

release into the environment because product may cause local effects. Keep material out of lakes, streams, ponds and sewer drains

**Methods for cleaning up:**

Absorb with an absorbent material and dispose of in suitable land fill.

In case of small amounts, absorb or cover with saw-dust, dry soil, sand, rag or other non-combustible material and transfer to container. Use clean non-sparking tools to collect absorbed material.

If case of large amounts, dike far ahead of liquid spill for later disposal. Absorb little residue after recovery with dry soil or sand, saw-dust etc.

Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area).

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## **7. HANDLING AND STORAGE**

**Handling:**

Do not handle material near food, feed or drinking water. Do not handle near open flame or under excess high temperature conditions. Keep out of reach of children. Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling.

**Storage:**

Use strictly in accordance with label precautionary statements and directions. Wear proper protective clothing. Avoid contact with skin or eyes. Avoid rough handling or dropping.

Keep in cool and dark in a well ventilated place. storage in tightly closed containers.

Keep out of direct sunlight. Storage must be generally in accordance with NZS8409 Management of Agrichemicals. See the HAZNOTE for further information.

**Packaging materials:**

HDPE. Use a sealable and unbreakable container.

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## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Workplace Exposure Guidelines**

**Workplace exposure standards:**

In a work place where dusts generate, ensure to use sealed instrument or local ventilation.

Shower and eye washer should be available in the work area.

None established

**Exposure Standards outside:**

**The workplace:**

### **Engineering measures**

**Exposure control measures:**

None required.

### **Personal Protective Equipment**

**Detail specifications for equipment:**

**Respiratory system:**

Handle in a totally enclosed system or use with local exhaust ventilation. Wear respirator in confined areas or where potential for inhalation of material.

<b>Skin and body:</b>	Wear rubber gloves, wear impervious clothing and boots.
<b>Hands:</b>	Use gloves chemically resistant (eg: nitrile or neoprene) when prolonged or frequently repeated contact could occur.
<b>Eyes:</b>	Wear safety general glasses with a side plate or goggles.
<b>General hygiene:</b>	Do not eat, drink or smoke when using. Wash hands and face before meals and after work.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Liquid
<b>Colour:</b>	Dark blue-green
<b>Odour:</b>	No odour
<b>pH:</b>	3.0 (x5)
<b>Vapour Pressure:</b>	Not available
<b>Vapour Density:</b>	Not available
<b>Boiling Point:</b>	Not available
<b>Freezing/melting point:</b>	Not available
<b>Solubility:</b>	Soluble
<b>Specific gravity or density:</b>	1.02~1.04 @ 20°C
<b>Flashpoint:</b>	Not applicable
<b>Octanol/water partition coefficient:</b>	Not available
<b>Explosion properties:</b>	Not available
<b>Oxidation properties:</b>	Not available

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## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under normal conditions
<b>Conditions to avoid:</b>	Freezing and excess heat. In case of fire, toxic decomposition products may be generated.
<b>Materials to avoid:</b>	Strong alkaline pesticides.
<b>Hazardous decomposition Products:</b>	None known. In case of fire, toxic decomposition products may be generated.
<b>Hazardous polymerization:</b>	Will not polymerize.
<b>Specific Data:</b>	
<b>Hazardous reactions :</b>	None expected

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## 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity – Oral :</b>	LD <sub>50</sub> > 5,000 mg/kg (rat) LD <sub>50</sub> > 5,000 mg/kg (mouse)
<b>Acute toxicity - Dermal :</b>	(Rat) LD <sub>50</sub> > 2,000 mg/kg
<b>Acute toxicity – Inhalation:</b>	
<b>Skin irritation :</b>	Skin irritation tests (rabbit): no irritation
<b>Eye irritation:</b>	Eye irritation tests (rabbit): mild irritation
<b>Sensitization :</b>	Not a sensitizer

## Sub Chronic toxicity

Subchronic Toxicity: For Kasugamycin Technical:  
90 day oral NOEL in mouse = 1,000 ppm  
90 day oral NOEL in rat = 300 ppm  
90 day oral NOEL in dog = 300 ppm  
Chronic/Carcinogenicity: For Kasugamycin Technical:  
Not a carcinogen  
Mouse NOEL = 300 ppm  
Rat NOEL = 300 ppm

## Chronic toxicity

Mutagenicity: Structured chromosome aberration:  
Negative (active ingredient)  
Ames Test: Negative (active ingredient)  
Unscheduled DNA synthesis: Negative (active ingredient)  
V/79HGPRT Forward mutation assay: Negative (active ingredient)  
Micronucleus test: Negative (active ingredient)  
Teratology/Developmental Toxicity: Not teratogenic in rabbits or rats.

## Reproduction toxicity:

Reproductive Toxicity: May damage reproductive organs if prolonged exposure to high dose occurs

## Other information :

Prolonged exposure to high doses may cause kidney damage

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## 12. ECOLOGICAL INFORMATION

### Fish Toxicity:

Fish: carp LC50 (96h) 120 mg/L

### Other Toxicity:

Crustacean: daphnia magna EC50 (48h) 152 mg/L  
Green algae: ErC<sub>50</sub> (72h) 458 mg/L

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## 13. DISPOSAL CONSIDERATIONS

### Methods of disposal :

Triple rinse container and add residue to spray tank. Recycle through AGRECOVERY® or burn if permitted and circumstances, especially wind direction permit, otherwise bury in landfill.

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## 14. TRANSPORT INFORMATION - International transport regulations

### UN number:

**Not a dangerous good**

### Class or Division:

**Not classified**

### Packing Group:

**NA**

### Marine Pollutant:

**No**

**Proper shipping name :** **Not applicable**

**INTERNATIONAL AIR TRANSPORT  
ASSOCIATION (IATA):**

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## **15. REGULATORY INFORMATION**

**ACVM Registered Number:** P8603  
**HSNO Approval Code:** HSR100889

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## **16. OTHER INFORMATION**

**Additional information:** **Original Issue Date:** 16<sup>th</sup> October 2013  
**Revision Date:** 26 October 2015  
**Replaces:** N/A

### **EXCLUSION OF LIABILITY: PLEASE READ**

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