

# MATERIAL SAFETY DATA SHEET

## KENMAG SL

### 1) IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/ UNDERTAKING

<b>Product name</b>	KENMAG SL
<b>Chemical name of active Ingredient(s)</b>	Imazalil sulphate Guazatine
<b>Use</b>	Agricultural fungicide. End-use formulated product.
<b>Company Identification</b>	MAKHTESHIM-AGAN (Pty) Ltd P.O Box 498 Brackenfell 7561
<b>Emergency telephone Number</b>	+ 27 82 807 7102 + 27 21 982 1460

### 2) COMPOSITION/INFORMATION ON INGREDIENTS

#### Information on hazardous ingredients

<b>Common name</b>	<b>CAS No</b>	<b>Value(s)</b>
Imazalil sulphate	60534-80-7	134g/l (Imazalil equiv. 100g/l)
Guazatine	115044-19-4	200g/l

### 3) HAZARDS IDENTIFICATION

<b>Human health hazards</b>	Harmful if swallowed Risk of serious damage to eyes Mild to moderate irritant to skin Toxic if inhaled
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### 4) FIRST-AID MEASURES

<b>Inhalation</b>	Remove victim to fresh air. If breathing is difficult, give oxygen. Get medical attention.
<b>Ingestion</b>	Immediately contact a physician or poison centre. Induce vomiting preferably using Ipecac (APF) syrup. If far from hospital, give plenty of water to drink and induce vomiting. Never induce vomiting or give anything by mouth to an unconscious person.
<b>Skin contact</b>	Flush thoroughly with water and wash affected area with soap and water. Remove contaminated clothing and wash prior to re-use. Obtain medical attention if irritation persists.
<b>Eye contact</b>	Immediately hold eyelids open and flush with a gently stream of water for 15 minutes. Obtain medical attention.
<b>Note to physician</b>	There is no specific antidote. Treat symptomatically and give supportive therapy. Perform gastric lavage and administer activated charcoal.

### 5) FIRE-FIGHTING MEASURES

<b>Extinguishing media</b>	In case of a small fire: foam, dry chemical or carbon dioxide In case of a large fire: water spray, fog or regular foam
<b>Special fire-fighting</b>	Evacuate non-essential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Contain runoff to prevent contamination of any bodies of water. Prevent use of contaminated buildings, area and equipment until decontaminated
<b>Protection of fire-fighters</b>	Wear suitable protective clothing. Self-contained breathing apparatus

### 6) ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	To avoid ingestion, do not eat, drink, smoke or apply cosmetics in areas where there is a potential for exposure to this material. Wash thoroughly after handling.
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<b>Environmental precautions</b>	To avoid eye contact, wear a face shield, or chemical goggles. To avoid skin contact, wear chemical-resistant gloves, suitable protective clothing and shoes. To avoid breathing mists or spray, wear an approved pesticides respirator.
<b>Methods for cleaning up</b>	Do not contaminate streams, rivers or waterways with the chemical or used containers. Wear protective clothing and equipment as described. For small spills, cover the spill with absorbent material such as pet litter or sand. Sweep up and place in a suitable chemical container. Dike large spills and transfer to an appropriate container for disposal. Wash the spill area with a small amount of water container a strong detergent, absorb with absorbent material, sweep up and place in the chemical container. Seal and label the container, and dispose of it in an approved manner. Flush the spill area with water to remove any residue. Do not allow wash water to contaminate water supplies or any body of water.

### 7) HANDLING AND STORAGE

<b>Handling</b>	Avoid contact with eyes, skin or clothing and do not breathe spray mist or fumes. Do not eat, drink, smoke or apply cosmetics in areas where there is a possibility of exposure to this material. Always wash thoroughly after handling. Remove contaminated clothing and wash it before wearing again. If spilled, clean up promptly. Keep container closed when not in use.
<b>Storage</b>	Store the product in the original, closed containers in a well ventilated, cool, dry, secure area set aside for pesticides. Do not store food, beverages or tobacco in the same area. Prevent product from freezing. KEEP OUT OF REACH OF CHILDREN AND ANIMALS.
<b>Packaging materials</b>	Plastic bottles

### 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Industrial hygiene</b>	Wash hands thoroughly after handling. Wash clothing before re-using
<b>Occupational Exposure Limits</b>	No occupational exposure limits have been established
<b>Personal protection</b>	
- Respiratory protection	During spray wear suitable respiratory equipment
- Skin protection	Wear protective clothing
- Hand protection	Chemical-resistant gloves
- Eye protection	Face shield or chemical goggles

### 9) PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	Transparent liquid
<b>Colour</b>	Light yellow to brown
<b>Odour</b>	Mild acidic chemical odour
<b>Specific gravity</b>	~1.076g/ml (CIPAC MT3)
<b>Flash point</b>	60 °C (IP 34)
<b>Viscosity</b>	3.6318mm <sup>2</sup> /s @ 25°C
<b>Flammable</b>	Not flammable under normal conditions
<b>Compatibility</b>	No compatible with wax
<b>pH</b>	4 – 6 @ 25°C (CIPAC MT75)
<b>Corrosive</b>	Non-corrosive
<b>Packaging</b>	5 and 20 litre HDPE plastic containers using screw -thread cap with ratchet and cutter. The 5 litre containers are foil-heat sealed before placement of the cap.

### 10) STABILITY AND REACTIVITY

<b>Stability</b>	Stable under normal conditions
<b>Hazardous reactions</b>	Hazardous polymerization will not occur
<b>Materials to avoid</b>	Strong bases and strong acids
<b>Conditions to avoid</b>	Protect from sunlight, open flame and heat sources. Imazalil sulphate decomposes upon heating.

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### 11) TOXICOLOGICAL INFORMATION

Acute toxicity – Oral	LD50 300 - 500 mg/kg
Acute toxicity – Dermal	LD50 >1000 mg/kg
Acute toxicity – Inhalation	LC50 = 225 mg/l
Skin irritation	Moderate Irritant (rabbit)
Eye irritation	Severe Irritant (rabbit)
Sensitization	Guinea pig maximization test: Sensitizer

### 12) ECOLOGICAL INFORMATION

Mobility	Immobile in soil. Does not leach to ground water.
Birds	LD50 (Mallard duck) > 2000 mg/kg (Imazalil) LD50 (pidgeon) = 82mg/kg (Guazatine)
Fish	LC50 (Rainbow trout) (96h) = 2.5 mg/l (Imazalil) LC50 (Rainbow trout) (96h) = 1.41mg/l (Guazatine)
Bees	Not toxic

### 13) DISPOSAL CONSIDERATIONS

Disposal	Dispose of this material and its container at hazardous or special waste collection point
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### 14) TRANSPORT INFORMATION

UN number	2902
Proper shipping name	Pesticide, liquid, toxic n.o.s (Guazatine and Imazalil sulphate)
Packing group	III
Dangerous goods class	6.1

### 15) REGULATORY INFORMATION

Hazard symbol(s)	Xn, N
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Risk phrases	R22 - 36
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### 16) OTHER INFORMATION