

## MATERIAL SAFETY DATA SHEET

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### SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

**Product Name:** Kenso Agcare Savage 600 Flowable Seed Dressing Insecticide

**Product Type:** Group 4A Insecticide

**Company Name:** Kenso Corporation (M) Sdn Bhd

**Address:** Unit 3C, 59, Oxford Street, Bulimba Queensland 4171

**Telephone Number:** (07) 3217 9788

**Facsimile Number:** (07) 3217 9733

**Emergency Telephone Number:** 000 (Police or Fire Brigade)  
**13 11 26 (Poisons Information Centre)**

**Use:** For the control of various insect pests in a range of crops and the prevention of spread of barley yellow dwarf virus in cereal crops.

### SECTION 2 – HAZARDS IDENTIFICATION

**Hazard Classification:** Hazardous according to criteria of NOHSC Australia.

**Risk Phrase(s):** R65 Harmful: May cause lung damage if swallowed.  
R20/21/22 Harmful by inhalation, in contact with skin, and if swallowed.  
R36/38 Irritating to eyes and skin.

**Safety Phrase(s):** S20 When using, do not eat or drink.  
S38 In case of insufficient ventilation, wear suitable respiratory equipment.  
S46 If swallowed, contact a doctor or Poison Information Centre immediately and show this container or label.  
S24/25. Avoid contact with skin and eyes.

**SUSDP Classification:** S6

**ADG Classification:** None allocated. Not a dangerous good.

**UN Number:** None allocated.

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#### Emergency Overview

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**Physical Description & colour:** Beige liquid suspension

**Odour:** Slight characteristic

**Major Health Hazards:** No major health hazard is known.

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#### Potential Health Effects

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##### Health Effects

**Swallowed:** Harmful if swallowed. Symptoms of poisoning include: Apathetic state, depressed muscular tone, respiratory disturbances and trembling. Muscular cramps are also possible in severe cases of poisoning.

**Eye:** Irritating to eyes.

**Skin:** Irritating to skin.

**Inhalation:** May be harmful if inhaled.

**Chronic:**

Animal studies with imidacloprid showed no evidence of oncogenic effects, no evidence of carcinogenic effects and no teratogenic potential.

**SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredients	CAS number	Proportion
Imidacloprid 95%	138261-41-3	632 g/L
Stabilisers and surfactant		balance

**SECTION 4 – FIRST AID MEASURES**

<b>Swallowed</b>	If swallowed give two glasses of water immediately and induce vomiting. Seek medical advice..
<b>Eye</b>	Hold eyes open, flood with water for at least 15 minutes. Seek medical advice.
<b>Skin</b>	Carefully remove contaminated clothing and wash affected skin thoroughly with soap and water. Seek medical advice if at all worried.
<b>Inhaled</b>	Remove affected persons into fresh air and keep warm and at rest. Seek medical advice if at all worried.
<b>Ingestion</b>	Obtain immediate medical advice as above. Give plenty of water to drink. Do not give anything by mouth to an unconscious person.

**Advice to Doctor**

Treat symptomatically.

**SECTION 5 – FIRE FIGHTING MEASURES**

**Fire/Explosion Hazard**

This product is non-flammable- water based product.

**Dangerous decomposition or Combustion Products**

**Thermal decomposition**

None

**Hazardous decomposition products**

Carbon monoxide, nitrogen oxides, hydrogen chloride, hydrogen cyanide

**Extinguishing Media**

Sprayed water jet, foam, extinguishing powder, carbon dioxide, sand.

**Precautions for fire fighters**

Firefighters should wear full protective gear, including self-contained breathing apparatus (AS/NZS 1715/1716). Keep unnecessary people away. If it can be done safely, remove intact containers from the fire. Otherwise, use water spray to cool them. Bund area with sand or earth to prevent contamination of drains or waterways. Dispose of fire control water or other extinguishing agent and spillage safely later. Do not release contaminated water into the environment.

**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

**Spills and Disposal**

Shovel or sweep into drums. Dispose off in an approved land-fill. Wash contaminated surfaces with detergent and water. Do not allow spills to contaminate rivers, dams or other waterways.

## SECTION 7 – HANDLING AND STORAGE

### Storage

Store in the closed, original container in a well-ventilated area. Do not store for prolonged periods in direct sunlight.

When treated seed is stored it should be kept apart from other grain and the bags or other containers should be clearly marked to indicate the contents have been treated with this product. DO NOT allow seed treated with this product to contaminate seed intended for human or animal consumption. Bags that have held treated seed are not to be used for any other purpose. If the seed is not used immediately after treatment it should be stored in a dry, well ventilated place.

### Transport

Considered non-hazardous by Australian Code for the Transport of Dangerous Goods by Road and Rail.

## SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Exposure Standards:

The NOHSC exposure standard (TWA) for glycerine mist is : 10 mg/m<sup>3</sup>

Exposure standard- Time weighted Average (TWA) means the average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five day working week.

### Engineering Controls:

Control process conditions to avoid contact. Use in a well-ventilated area only.

### Personal Protection:

Eyes: Wear goggles.

Clothing: Wear cotton overalls buttoned to the neck and wrist and a washable hat if skin exposure is likely.

Gloves: Wear elbow-length PVC gloves.

Respiratory: Wear a disposable mask if inhalation is possible

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>Form:</b>	suspension concentrate
<b>Colour:</b>	Red
<b>Odour:</b>	Slight characteristic
<b>Boiling point (°C):</b>	Not applicable
<b>Vapour Pressure:</b>	Not applicable
<b>Specific gravity:</b>	1.24 at 20°C
<b>Flashpoint:</b>	Not flash point up to 100°C
<b>Flammability Limits:</b>	Non flammable
<b>Solubility in Water:</b>	Miscible with water

## SECTION 10 – STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	This product is stable under normal storage conditions.
<b>Conditions to Avoid:</b>	Avoid extreme heat.
<b>Incompatibilities:</b>	Avoid strong oxidising agents.
<b>Hazardous Polymerization:</b>	Hazardous polymerization is not possible.

**SECTION 11 – TOXICOLOGICAL INFORMATION****Toxicity data:**

<b>Oral toxicity:</b>	LD <sub>50</sub> rat: 200 to 2000 mg/kg
<b>Dermal toxicity:</b>	LD <sub>50</sub> rat: > 4000 mg/kg
<b>Inhalation toxicity:</b>	LD <sub>50</sub> rat (4 hour): > 1.86 mg/L- aerosol (highest technically producible concentration)
<b>Skin irritation:</b>	Not irritating (rabbit)
<b>Mucous membrane irritation:</b>	Not irritating (rabbit)
<b>Sensitisation:</b>	Sensitising (guinea pig)

**Other Information****SECTION 12 – ECOLOGICAL INFORMATION****Known Harmful Effects on the Environment****Other Precautions**

None

**Environ. Protection**

DO NOT contaminate streams, rivers or waterways with Savage 200 insecticide or the used containers.

**Persistence / Degradability**

Imidacloprid cannot be classified as being persistent as it does not accumulate. Repeated use of imidacloprid over several years in maximum concentrations in soil will reach a plateau and will decline if no further applications occur.

Imidacloprid is toxic to certain aquatic species. Dangerous to bees.

DO NOT contaminate streams, rivers or waterways with Savage 600 Insecticide or the used containers, or bags that have held treated seed. DO NOT allow seed treated with this product to contaminate seed intended for human or animal consumption or poultry feed. DO NOT feed treated seed or otherwise expose to wild or domestic birds. Any spillages of treated seed, however minor, must be cleaned up immediately, preferably by recovery and re-use. If disposal is required, ensure treated seeds are thoroughly buried and not accessible to birds and other wildlife.

**Acute Toxicity - Fish**

LC<sub>50</sub>: 237 mg/L (96 h); golden orfe (*Leuciscus idus melanotis*)

LC<sub>50</sub>: 211 mg/L (96 h); rainbow trout (*Oncorhynchus mykiss*)

LC<sub>50</sub>: 280 mg/L (96 h); carp (*Cyprinus carpio*)

**Acute Toxicity – Aquatic Invertebrate**

EC<sub>50</sub>: 0.055 mg/L (48 h); *Hyalella azteca*

EC<sub>50</sub>: 85 mg/L (48 h); *Daphnia magna*

**Acute Toxicity – Algae**

EC<sub>50</sub>: > 100 mg/L (72 h); green alga (*Pseudokirchneriella subcapitata*)

**Acute Toxicity – Bacteria**

EC<sub>50</sub>: > 10000 mg/L; activated sludge (OECD 209)

**Acute Toxicity – Bird**

Acute oral LD<sub>50</sub>: 31mg/kg; Japanese quail

Acute oral LD<sub>50</sub>: 152 mg/kg; bobwhite quail

**Environmental Fate, persistence and degradability, mobility**

Imidacloprid shows a medium adsorption to soil. Classified as immobile in soil. Not expected to leach.

### SECTION 13 – DISPOSAL CONSIDERATIONS

**Disposal:** Instructions concerning the disposal of this product and its containers are given on the product label. These should be carefully followed.

### SECTION 14 – TRANSPORT INFORMATION

**UN Number:** None allocated  
**Proper Shipping Name:** None Allocated  
**SUSDP Classification:** S6  
**ADG Class:** None allocated. Not a dangerous good.  
**Hazchem Code:** None allocated.  
**Packing Group:** None allocated.

### SECTION 15 – REGULATORY INFORMATION

**SUSDP Classification** S6  
**Packaging & Labelling** POISON  
 KEEP OUT OF REACH OF CHILDREN  
 READ SAFETY DIRECTIONS BEFORE OPENING OR USING  
**AICS (Australia)** All of the components in this product are listed on the Australian Inventory of Chemical Substances

### SECTION 16 – OTHER INFORMATION

**This MSDS contains only safety-related information. For other data see product literature.**

**Acronyms:**

**ADG Code** Australian Code for the Transport of Dangerous Goods by Road and Rail  
**AICS** Australian Inventory of Chemical Substances  
**CAS number** Chemical Abstracts Service Registry Number  
**Hazchem Number** Emergency action code of numbers and letters that provide information to emergency services especially firefighters  
**IARC** International Agency for Research on Cancer  
**NOHSC** National Occupational Health and Safety Commission  
**SUSDP** Standard for the Uniform Scheduling of Drugs & Poisons  
**UN Number** United Nations Number

**CONTACT POINT:**

Police and Fire Brigade: Dial 000  
**National Poisons Information Centre:** Dial **13 11 26 (from anywhere in Australia)**  
 For 24 hour emergency response: Dial 0439 933 556  
 Ask for Murray Goodlich