

SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name:	Kenso Agcare Radicle 600 Flowable Seed Dressing Insecticide
Product Type:	Group 4A Insecticide
Company Name:	Kenso Corporation (M) Sdn Bhd
Address:	Level 1, 98 Commercial Road, Teneriffe QLD 4005
Telephone Number:	(07) 3216 1188
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, as specified in the Directions for Use table.

SECTION 2 – HAZARDS IDENTIFICATION

Hazard Classification: Classified as hazardous according to criteria of Safe Work Australia. Not classified as a Dangerous Good according to the ADG Code.



GHS Signal Word:	WARNING
Hazard statement:	H302: Harmful if swallowed. H317: May cause an allergic skin reaction.
Prevention:	P261: Avoid breathing dust/fume/gas/mist/vapours/spray. P264: Wash contacted areas thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P272: Contaminated work clothing should not be allowed out of the workplace. P280: Wear protective gloves.
Response:	P301 + P312: IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell. P302 + P352: IF ON SKIN: Wash with plenty of soap and water. P321: Specific treatment (see FIRST AID on this label) P330: Rinse mouth. P333 + P313: If skin irritation or rash occurs: Get medical advice/attention. P362 + P364: Take off contaminated clothing and wash it before reuse.
Disposal:	P501: Dispose of contents and containers as specified on the registered label.
SUSMP Classification:	S6

ADG Classification: N/A
UN Number: N/A

Emergency Overview

Physical Description & colour: Red liquid suspension
Odour: Slight characteristic
Major Health Hazards: No major health hazard is known.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
Imidacloprid	138261-41-3	60%
Inert ingredients	secret	to 100%

SECTION 4 – FIRST AID MEASURES

Inhalation:	Remove affected persons into fresh air and keep warm and at rest. Seek medical advice if at all worried.
Skin contact:	Carefully remove contaminated clothing and wash affected skin thoroughly with soap and water. Seek medical advice if at all worried.
Eye contact:	Hold eyes open, flood with water for at least 15 minutes. Seek medical advice.
Ingestion:	If swallowed give two glasses of water immediately and induce vomiting. Seek medical advice. Do not give anything by mouth to an unconscious person.

Advice to Doctor
Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Fire/Explosion Hazard
Dangerous Decomposition or Combustion Products
Thermal Decomposition

This product is non-flammable - water based product. No thermal decomposition. If involved in fire, it will emit 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

Handling

When handling this product, do not eat, drink or smoke.

When mixing this product always wear a PVC or rubber apron, elbow length PVC gloves, face shield or goggles and overalls buttoned at the wrist and neck.

When spraying this product, wear a face shield or goggles

After each days use, wash gloves, face shield or goggles and overalls.

If product gets on skin, immediately wash area with soap and water.

Storage

Store in the closed, original container in a well-ventilated area as cool as possible out of direct sunlight. Keep from contact with fertilisers and seeds.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards:

The NOHSC exposure standard (TWA) for glycerine mist is: 10 mg/m³

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

Form: Suspension concentrate

Colour: Red

Odour: Slight characteristic

Boiling Point (°C): Not applicable

Vapour Pressure: Not applicable

Specific Gravity: 1.24 at 20°C

Flashpoint: Non flammable

Solubility: Dispersible

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability

This product is stable under normal storage conditions.

Conditions to Avoid

Avoid extreme heat.

Incompatibilities

Avoid strong oxidising agents.

Hazardous Polymerization

Hazardous polymerization is not possible.

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity – Oral

LD₅₀ rat: 200 to 2000 mg/kg

Acute Toxicity – Dermal

LD₅₀ rat: > 4000 mg/kg

Acute Toxicity – Inhalation

LD₅₀ rat (4 hour): > 1.86 mg/L- aerosol (highest technically producible concentration)

Skin irritation

Not irritating (rabbit)

Mucous membrane irritation

Not irritating (rabbit)

Sensitisation

Sensitising (guinea pig)

Potential Health Effects

Health Effects

Acute:

- | | |
|----------------------|---|
| Inhalation: | May be harmful if inhaled. |
| Skin contact: | Irritating to skin. |
| Eye contact: | Irritating to eyes. |
| Ingestion: | 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. |

Chronic:

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

Other Information

The Australian Acceptable Daily Intake (ADI) for imidacloprid is set at 0.06 mg/kg/bw/day. The corresponding NOAEL is set at 6 mg/kg/bw/day. *ADI= Acceptable Daily Intake; NOAEL: No Observable Adverse Effect Level. Data adopted from Australia ADI List, March 2021.

SECTION 12 – ECOLOGICAL INFORMATION

Acute Toxicity - Fish

LC₅₀: 237 mg/L (96 h); golden orfe (*Leuciscus idus melanotis*)

LC₅₀: 211 mg/L (96 h); rainbow trout (*Oncorhynchus mykiss*)

LC₅₀: 280 mg/L (96 h); carp (*Cyprinus carpio*)

Acute Toxicity – Aquatic Invertebrate

EC₅₀: 0.055 mg/L (48 h); *Hyalella azteca*

EC₅₀: 85 mg/L (48 h); *Daphnia magna*

Acute Toxicity – Algae

EC₅₀: > 100 mg/L (72 h); green alga (*Pseudokirchneriella subcapitata*)

Acute Toxicity – Bacteria

EC₅₀: > 10000 mg/L; activated sludge (OECD 209)

Acute Toxicity – Bird

LD₅₀: 31mg/kg; Japanese quail

LD₅₀: 152 mg/kg; bobwhite quail

Known Harmful Effects on the Environment

Other Precautions

None

Environ. Protection

DO NOT contaminate streams, rivers or waterways with Radicle 600 insecticide or the used containers.

Environmental Fate, persistence and degradability, mobility

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

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 Radicle 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.

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

Storage and Transport:	Considered non dangerous for road and rail transport (in packaging) by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Ref: ADG7; SP No. AU01.
UN Number (Sea Transport):	3082
IMO Class/Packing Group:	Class 9; Packing Group III
IMO Marine Pollutant:	Marine Pollutant
IMO Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains imidacloprid)
Hazchem code:	None allocated

SECTION 15 – REGULATORY INFORMATION

SUSMP Classification	S6
Packaging & Labelling	POISON KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING

SECTION 16 – OTHER INFORMATION

This SDS 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
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
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
UN Number	United Nations Number
GHS	Globally Harmonised System

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