

SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name: Radicle 600 Flowable Seed Dressing Insecticide
Company Name: Kenso Corporation (M) Sdn Bhd
Address: 2 Bond Crescent, Forrest Hill,
Auckland 0620 New Zealand
Telephone Number: (09) 410 0861
Emergency Telephone Number: (24 Hours) 0800 243 622
Use: For use as a seed treatment on cereals, forage brassicas,
grass seed, maize, sweetcorn, potatoes, pumpkins and
winter squash.

SECTION 2 – HAZARDS IDENTIFICATION

Hazard classification: 6.1C, 6.4A, 6.9B, 9.1A, 9.2A, 9.3A, 9.4A
Priority Identifier: TOXIC - HARMFUL
ECOTOXIC
KEEP OUT OF REACH OF CHILDREN
Secondary Identifiers: 6.1C = May be fatal if swallowed, inhaled or absorbed through the skin
6.4A = Irritating to eyes
6.9B = Danger of serious damage to health by prolonged exposure
9.1A = Very toxic to aquatic organisms
9.2A = Very toxic in the soil
9.3A = Very toxic to terrestrial vertebrates
9.4A = Very toxic to terrestrial invertebrate

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
Imidacloprid 95%	138261-41-3	60% w/v
Inert ingredients	secret	to 100% w/v

SECTION 4 – FIRST AID MEASURES

Swallowed	If swallowed give two glasses of water immediately and induce vomiting. Seek medical advice.
Eye	Hold eyes open, flood with water for at least 15 minutes. Seek medical advice.
Skin	Carefully remove contaminated clothing and wash affected skin thoroughly with soap and water. Seek medical advice if at all worried.
Inhaled	Remove affected persons into fresh air and keep warm and at rest. Seek medical advice if at all worried.
Ingestion	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

Use absorbent materials to absorb and contain the spill. Shovel or sweep contained absorbent material into chemical recovery drums. Dispose off in an approved land-fill. Wash contaminated surfaces with detergent and water. Do not allow spills or washings to contaminate drains, 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.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards:

No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product.

Engineering Controls:

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

Personal Protection:

Eyes: Wear goggles.
Clothing: Wear chemical resistant coveralls.
Gloves: Wear elbow-length Nitrile or PVC gloves.
Respiratory: Wear respiratory protection with organic vapour filters.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form:	suspension concentrate
Colour:	Red
Odour:	Non specific
Boiling point (°C):	Not applicable
Vapour Pressure:	Not applicable
Specific gravity:	1.24 g/cm ³ at 20°C
Flashpoint:	Not flash point up to 100°C
Flammability Limits:	Non flammable
Solubility in Water:	Miscible with water

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

Toxicity data:	
Oral toxicity:	LD ₅₀ rat: 200 to 2000 mg/kg
Dermal toxicity:	LD ₅₀ rat: > 4000 mg/kg
Inhalation toxicity:	LD ₅₀ 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)

SECTION 12 – ECOLOGICAL INFORMATION

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 ₅₀ :	237 mg/L (96 h); golden orfe (<i>Leuciscus idus melanotis</i>)
LC ₅₀ :	211 mg/L (96 h); rainbow trout (<i>Oncorhynchus mykiss</i>)
LC ₅₀ :	280 mg/L (96 h); carp (<i>Cyprinus carpio</i>)

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

Acute oral LD₅₀: 31 mg/kg; Japanese quail
Acute oral LD₅₀: 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 (Sea Transport): 3082

IMO Proper Shipping: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains IMIDACLOPRID 60%), Class 9, Packing Group III.

SECTION 15 – REGULATORY INFORMATION

HSNO Approval Number: HSR100831

HSNO Controls (inc. Tracking and Record Keeping):

See <http://www.epa.govt.nz> for controls.

ACVM Registration: P8824

ACVM Controls:

See www.footsafety.govt.nz for registration conditions.

SECTION 16 – OTHER INFORMATION

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

Contact Points:

Police, Ambulance and Fire Service:	Dial	111
National Poisons Information Centre:	Dial	0800 POISON (0800 764 766)
Hazardous Substances Emergency:	Dial	0800 Chemcall (0800 243 622)