

SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name:	Kenso Agcare Mepiquat Xtra 250 Plant Growth Regulator
Product Type:	Plant growth regulator
Company Name:	Kenso Corporation (M) Sdn Bhd
Address:	Level 1, 98 Commercial Road, Teneriffe QLD 4005
Telephone Number:	(07) 3216 1188
Facsimile Number:	(07) 3216 0388
Emergency Telephone Number:	000 (Police or Fire Brigade) 13 11 26 (Poisons Information Centre)
Use:	For the management of fruiting and vegetative growth in cotton.

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 statements:	H302: Harmful if swallowed.
Prevention:	P264: Wash contacted area thoroughly after handling. P202: Do not eat, drink or smoke when using this product.
Response:	P301+P312: IF swallowed: Call a POISON CENTER or doctor/physician if you feel unwell. P330: Rinse mouth
Disposal:	P501: Dispose of contents and containers as specified on the registered label.
SUSMP Classification:	S5
ADG Classification:	None allocated. Not a dangerous good.
UN Number:	None allocated.

Emergency Overview

Physical Description & colour: Clear liquid.

Odour: Odourless.

Major Health Hazards: Harmful if swallowed. May irritate the eyes.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
Mepiquat (present as chloride)	24307-26-4	25.0 %
Inert ingredients	secret	To 100 %

SECTION 4 – FIRST AID MEASURES

General Information:

If poisoning occurs, contact a doctor or Poisons Information Centre, Phone Australia 131 126.

Inhalation:	Remove victim to fresh air until recovered.
Skin contact:	Remove contaminated clothing and launder before re-use. Wash affected areas thoroughly with soap and water.
Eye contact:	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek medical advice.
Ingestion:	If swallowed do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26 (Aust). Make every effort to prevent vomit from entering the lungs by careful placement of the patient.

Advice to Doctor:

Treat symptomatically based on judgment of doctor and individual reactions of patient. An antidote is not known.

SECTION 5 – FIRE FIGHTING MEASURES

Fire/Explosion Hazard

Dangerous decomposition or Combustion Products

Carbon dioxide, carbon monoxide, nitrogen oxides, water.

Thermal decomposition

None.

Extinguishing Media

Extinguish fire with foam, dry powder, carbon dioxide or water fog.

Fire Fighting

If a significant quantity of this product is involved in a fire, call the fire brigade. There is little danger of a violent reaction or explosion if significant quantities of this product are involved in a fire. Fire-fighter should wear appropriate protective equipment with self-contained breathing apparatus.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spills and Disposal

Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite). Collect spilled material and waste in sealable open-top type containers for disposal. Do not allow to enter drains, sewers and watercourses. Triple rinse containers before disposal. Add rinsings to spray

tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point.

If not recycling, break, crush or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. Do not burn empty containers or product.

Personal Protection

For appropriate personal protective equipment (PPE), refer Section 8.

SECTION 7 – HANDLING AND STORAGE

Handling

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 dry, cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

National Exposure Standards:

No exposure standards have been set for this product. ADI for mepiquat is set at 0.15 mg/kg/day with corresponding NOAEL is set at 15 mg/kg/day.

**ADI= Acceptable Daily Intake; NOAEL: No Observable Adverse Effect Level. Data adopted from Australia ADI List, Sept 2019.*

Engineering Controls

Ensure workplace is well ventilated

Personal Protective Equipment

When preparing product for use, wear cotton overalls buttoned to the neck and wrist and washable hat, elbow length PVC gloves and effective eye protection. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly. After each day's use, wash contaminated clothing and safety equipment. When handling product, do not eat, drink or smoke.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Colour:	Clear to pale yellow
Odour:	Odourless
pH:	5 - 8
Boiling point (°C):	~ 100°C
Vapour Pressure:	Mepiquat chloride is non-volatile

Flashpoint:	Not available
Specific Gravity:	1.03 ± 0.01
Solubility:	Soluble

SECTION 10 – STABILITY AND REACTIVITY

Reactivity

This product is unlikely to react or decompose under normal storage conditions.

Conditions to Avoid

This product should be protected from direct sunlight and temperatures above 40°C and below 0°C.

Incompatibilities

No incompatible substance.

Fire Decomposition

Carbon dioxide, carbon monoxide, nitrogen oxides, water.

Polymerisation

Hazardous polymerization is not possible.

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicity data (estimated for product)

Acute Toxicity – Oral

LD₅₀ (rat): 1402 mg/kg.

Acute Toxicity - Dermal

LD₅₀ (rat): >5000 mg/kg.

Toxicity data (for Mepiquat technical)

Acute Toxicity – Oral

LD₅₀ (rat): 464 mg/kg

Acute Toxicity - Dermal

LD₅₀ (rat): >2000mg/kg

Acute Toxicity – Inhalation

LC₅₀(rat, 7hr): 3.2 mg/L

Skin irritation: NON IRRITANT

Eye irritation: SLIGHT EYE IRRITANT

Sensitization: NON SENSITISER

Potential Health Effects

Health Effects

Harmful if swallowed. May irritate the eyes.

Acute:

Inhalation: Inhalation over-exposure is not expected at normal use temperatures.

Skin contact: The concentrate may be slightly irritating to skin in sensitive people.

Eye contact: The concentrate may be slightly irritating to eyes.

Ingestion: The concentrate is considered harmful by ingestion.

Mutagenicity

No data available.

Carcinogenicity

Not likely to be carcinogenic to non-humans.

Other Information

The Australian Acceptable Daily Intake (ADI) for mepiquat is set at 0.15 mg/kg/day with corresponding NOAEL is set at 15 mg/kg/day. *ADI= Acceptable Daily Intake; NOAEL: No Observable Adverse Effect Level. Data adopted from Australia ADI List, Sept 2019.

SECTION 12 – ECOLOGICAL INFORMATION

This product is biodegradable. It will not accumulate in the soil or water or cause long term problems.

Ecotoxicity data (of technical)

Acute Toxicity – Bird

LD₅₀ bobwhite quail : >2000 mg/kg

Acute Toxicity – Fish

LC₅₀ rainbow trout (96 hrs): >100 mg/L

Acute Toxicity – Crustaceans

Daphnia LC₅₀ (48 hrs): 106 mg/L

Acute Toxicity – Other organisms

Algae: E_bC₅₀ *Pseudokirchneriellasubcapitata* (72hrs): >1000 mg/L

Worms: LC₅₀(14d): 319.5 mg/kg dry soil

Bees: LD₅₀ (contact)(48hrs): >100 µg/bee

ENVIRONMENTAL FATE

Based on the overall low toxicity of Mepiquat chloride, its low usage rate, and its rapid aerobic degradation, no risks to animals or non-target plants or endangered species were identified. Half-life of Mepiquat chloride in soil is approximately 10 – 90 days.

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	Not a dangerous good.
UN Number (Sea Transport):	None allocated.
IMO Class/Packing Group:	None allocated.
IMO Marine Pollutant:	None allocated.
IMO Proper Shipping Name:	None allocated.
Hazchem code:	None allocated.

SECTION 15 – REGULATORY INFORMATION

SUSMP Classification	S5
Packaging & Labelling	CAUTION 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