

SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name: Kenso Agcare Mepiquat 38 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
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 non-hazardous according to criteria of Safe Work Australia.
Not classified as a Dangerous Good according to the ADG Code.

GHS Signal Word: NONE. Not hazardous.
SUSMP Classification: S5
ADG Classification: Not a dangerous good.
UN Number: None allocated.

Emergency Overview

Physical Description & colour: Clear liquid.
Odour: Odourless.
Major Health Hazards: No major health hazard is known

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
Mepiquat chloride	24307-26-4	3.8%
Inert ingredients	secret	to 100%

SECTION 4 – FIRST AID MEASURES

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 (Aus). Make every effort to prevent vomit from entering the lungs by careful placement of the patient.
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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

Thermal Decomposition

None

Hazardous decomposition products

Carbon dioxide, carbon monoxide, nitrogen oxides, water.

Hazardous Reactions

Avoid oxidising agents.

Extinguishing Media

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

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spills and Disposal

Contain spill and absorb with sand or proprietary absorbent (vermiculite). Prevent from entering drains, waterways or sewers. Collect in sealed open top containers for disposal. Triple rinse container then offers for recycling/ reconditioning or puncture and dispose off in a sanitary landfill, or by other procedures approved by state and local authorities. On site disposal is not acceptable.

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 day's 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

An exposure standard has not been allocated for this product.

Engineering Controls

Ensure workplace is well ventilated

Personal Protection:

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
Odour:	Odourless
Boiling point (°C):	~ 100°C
Vapour Pressure:	Mepiquat chloride is non-volatile
Specific Density:	Approximately 1.0 (20°C)
Flashpoint:	Not available
Flammability Limits:	Not available
Solubility:	Soluble

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability

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.

Hazardous Polymerization

Hazardous polymerization is not possible.

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicity data (for the product)

Acute Toxicity – Oral

LD₅₀ (rat): 6900 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

Potential Health Effects

Health Effects

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 mildly irritating to eyes.

Ingestion: The concentrate is considered to be slightly toxic by ingestion.

Chronic:

Based on our experience and the information available to us, there have been no long term health effects observed with this product if handled correctly and used in accordance with the application purposes.

Other Information

The Australian ADI of Mepiquat for a human is 0.15mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 15mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. *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

Non-toxic to fish

Acute Toxicity – Other Organisms

Non-toxic to honey bees

Known Harmful Effects on the Environment

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.

Environ. Protection

Do not allow product to enter wastewater streams, rivers, sewers.

Persistence / Degradability

Half-life of Mepiquat chloride in soil is approximately 10 – 90 days.

Other Precautions

None

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.
ADG Class:	Not a dangerous good.

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