



MATERIAL SAFETY DATA SHEET

Manufacturer/information service:

CHANGZHOU BOOMING CROP SCIENCE CO.,LTD
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SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name: MEPIQUAT CHLORIDE 97%SP (M HORMONE)
Product Type: Plant growth regulator

SECTION 2 – HAZARDS IDENTIFICATION

Hazard Classification: Not classified as hazardous according to criteria of NOHSC.
Risk Phrase(s): Slight irritating to eyes and skin
SUSDP Classification: None allocated.
ADG Classification: None allocated. 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

Potential Health Effects

Health Effects

Acute:

Swallowed: The concentrate is considered to be slightly toxic by ingestion.
Eye: The concentrate may be mildly irritating to eyes..
Skin: The concentrate may be slightly irritating to skin in sensitive people.
Inhaled: Inhalation over-exposure is not expected at normal use temperatures.

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.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
Mepiquat chloride	24307-26-4	38 g/L
Other non hazardous ingredients		Up to 100%

SECTION 4 – FIRST AID MEASURES

Swallowed	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.
Eye	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek medical advice.
Skin	Remove contaminated clothing and launder before re-use. Wash affected areas
Inhaled	Remove victim to fresh air until recovered.

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

None

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 offer 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

Storage

Keep containers tightly sealed. Store in a cool, dry area and away from animal foodstuffs and



drinking water. Protect from direct sunlight and temperatures above 40°C and below 0°C.

Transport

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

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
Vapour Pressure:	Mepiquat chloride is non-volatile			
Specific Density:	Approximately 1.0 (20°C)			
Flashpoint:	Not available			
Flammability Limits:	Not available			
Solubility in Water:	Soluble in water (20°C)			

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 oral LD₅₀ (rat): 6900 mg/kg
Acute dermal LD₅₀ (rat): >5000 mg/kg

For Mepiquat (active):

Acute oral LD₅₀ (rat): 464



mg/kg Acute dermal LD₅₀
(rat): >2000mg/kg Acute
inhalation (rat, 7hr): 3.2
mg/L

Other Information

The Australian Acceptable Daily Intake (ADI) of Mepiquat for a human is 0.15mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL 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.

SECTION 12 – ECOLOGICAL INFORMATION

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.

Other Precautions

None

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.

Acute Toxicity - Fish

Non-toxic to fish

Acute Toxicity – Other Organisms

Non-toxic to honey bees

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:**

None allocated

ADG Class: None

allocated. Not a dangerous good.

Hazchem **Code:**

None allocated.



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Packing
None allocated.

Group:

SECTION 15 – REGULATORY INFORMATION

Not available.

SECTION 16 – OTHER INFORMATION

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