

# SAFETY DATA SHEET



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**Emergency Contact:**  
**1800 033 111**

## SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** **eChem MEPIQUAT 38  
Cotton Growth Regulator**

**Full Product Name:** eChem Mepiquat 38 Cotton Growth Regulator  
**Other Names:** Mepiquat chloride. Organic Ammonium Compound.  
**Use:** Plant growth regulator for use in cotton.  
**Company:** eChem (Australia) Pty Ltd  
**Address:** Level 4, Lantos Place, 80 Stamford Road, Indooroopilly, Qld, 4068  
**ACN/ABN:** 089 133 095  
**Telephone Number:** 1300 781 649 **Fax Number:** 1300 781 650  
**Emergency Contact :** 1800 033 111

## SECTION 2 HAZARDS IDENTIFICATION

**Not classified as hazardous according to criteria of Safe Work Australia.  
Not classified as a Dangerous Good according to the ADG Code**

## SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

### Ingredients:

<b>CHEMICAL</b>	<b>CAS NUMBER</b>	<b>PROPORTION</b>
Mepiquat as Mepiquat Chloride	24307-26-4	38 g/L
Other ingredients (including water) determined not to be hazardous		to 100%

Chemical Group: Organic Ammonium Compound

## SECTION 4 FIRST AID MEASURES

### FIRST AID

**Ingestion:** If swallowed, contact a doctor or Poisons Information Centre (ph 13 11 26)  
**Eye contact:** Hold eyes open and flood with clean water until chemical is removed. Seek medical advice.  
**Skin contact:** Remove contaminated clothing and launder before re-use. Wash skin thoroughly with soap and water.  
**Inhalation:** Remove to fresh air and observe until recovered. Maintain respiration, keep warm and at rest.

**Advice to Doctor:** Treat symptomatically. No known specific antidote.

## SECTION 5 FIRE FIGHTING MEASURES

**Specific Hazard:** Non flammable; will not support combustion in the original state.

**Extinguishing media:** Extinguish fire using media suited to burning material. If containers are ruptured contain all runoff.

## SECTION 5 FIRE FIGHTING MEASURES (Continued)

**Hazards from combustion products:** Product is likely to decompose after heating to dryness and continued strong heating and could emit nitrogen oxides and hydrogen chloride. Wear full protective equipment, including breathing apparatus. Cool surrounding containers with a fine water spray. Will not polymerise.

**Precautions for fire-fighters and special protective equipment:** Wear full protective equipment, including breathing apparatus. Cool surrounding containers with a fine water spray. Contain run-off.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**Emergency procedures / Material and methods for containment and cleanup procedures:** In case of spillage, contain and absorb spilled material with absorbent material such as clay, sand or cat litter. Vacuum, shovel or pump spilled material into an approved container and dispose of waste as indicated in section 13 or according to the Australian Standard 2507 - Storage and Handling of Pesticides in accordance with the requirements of Local or State Waste Management Authorities. Keep material out of streams and sewers.

## SECTION 7 HANDLING AND STORAGE

**Precautions for safe Handling:** No smoking, eating or drinking should be allowed where material is used or stored. Avoid contact with eyes and skin. Wash hands after use.

**Conditions for safe Storage:** Keep out of reach of children. Store in original containers only. Store in a cool, dry and well ventilated location. Do not store for prolonged periods in direct sunlight. Do not store product over 50°C or below -1°C This product is a Schedule 5 Poison (S5) and must be stored and sold in accordance with the relevant Health Department regulations.

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Guidelines:**

No exposure standard has been established by Safe Work Australia for mepiquat chloride.

**Biological Limit Values:**

No biological limit allocated

**Engineering controls:**

Use in ventilated areas. Keep containers closed when not in use. No special engineering controls are required.

**Personal Protective equipment (PPE):**

**General:** Personal Protective Equipment is not normally required, but are prudent when using this product. Avoid contact with the eyes and skin. Chemical resistant gloves, goggles or a face shield are suggested to be used as part of good industrial hygiene.

**Personal Hygiene:** Clean water should be available for washing in case of eye or skin contamination. Wash skin before eating, drinking or smoking. Shower at the end of the workday.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Slightly yellowish liquid.
<b>Odour:</b>	Characteristic mild odour.
<b>Boiling point:</b>	Not known.
<b>Freezing point:</b>	Not known.
<b>Specific Gravity:</b>	1.0 g/mL.
<b>Solubility in Water:</b>	Soluble.
<b>pH:</b>	7.5 - 9.5
<b>Flammability:</b>	Not flammable.
<b>Corrosive hazard:</b>	Not corrosive.
<b>Flashpoint (°C):</b>	Not established. Water based product.
<b>Flammability Limits (%):</b>	Not established.
<b>Poisons Schedule:</b>	S5.

## SECTION 10 STABILITY AND REACTIVITY

**Chemical Stability:** Product is considered stable in ambient conditions for a period of at least 2 years after manufacture.

**Conditions to avoid:** Do not leave in direct sunlight for prolonged periods.

**Incompatible materials:** Avoid strong acids, bases and oxidizing materials.

**Hazardous decomposition products:** In a fire hazardous and noxious vapours may be emitted.

**Hazardous reactions:** No particular reactions to avoid.

## SECTION 11 TOXICOLOGICAL INFORMATION

No specific data is available for this product as no toxicity tests have been conducted on this product. Information presented is our best judgement based on similar products and/or individual components. As with all products for which limited data is available, caution must be exercised through the use of protective equipment and handling procedures to minimise exposure.

### Potential Health Effects:

#### ACUTE EFFECTS

**Swallowed:** No adverse effects are expected. Ingestion of large quantities may result in nausea and vomiting.

**Eye:** Maybe an eye irritant.

**Skin:** Maybe a skin irritant.

**Inhaled:** Sprays and mists maybe irritating to respiratory system.

#### Toxicological data - Mepiquat:

Acute oral LD<sub>50</sub> (rat) 464 mg/kg.

Acute Dermal LD<sub>50</sub> (rabbit) > 2000 mg/kg.

Acute inhalation LC<sub>50</sub> (rat) > 3.2 mg/L/7 hours.

Not a skin irritant or sensitiser.

Not an eye irritant.

**Long Term Exposure:** Mepiquat was not carcinogenic or mutagenic and did not cause reproductive effects in animal studies.

## SECTION 12 ECOLOGICAL INFORMATION

Do not contaminate streams, rivers or waterways with the chemical or used containers. Low toxicity to fish, LC<sub>50</sub> (96 hours) = 4300 mg/L for trout. Non toxic to bees. Low toxicity to hens and wildfowl LD<sub>50</sub> for Bobwhite quail > 2000 mg/kg. Earthworm (*Eisena foetida*) LC<sub>50</sub> = 440 mg/kg soil. Algae EC<sub>50</sub> (cell volume) 72 hr > 1000 mg/L (*Pseudokirchneriella subcaptatata*). Bioaccumulation potential is very low.

Half life in soils ranges from 10 to 97 days depending on the soil type.

## SECTION 13 DISPOSAL CONSIDERATIONS

**Spills and Disposal:** In case of spillage, contain and absorb spilled material with absorbent material such as clay, sand or cat litter and dispose of waste as indicated below or in accordance to the Australian Standard 2507- Storage and Handling of Pesticides. Keep material out of streams and sewers. Vacuum, shovel or pump waste into an approved drum. To decontaminate spill area, tools and equipment, wash with detergent and water and add the solution to the drums of wastes already collected and label contents.

Dispose of drummed wastes, including decontamination solution in accordance with the requirements of Local or State Waste Management Authorities.

Triple or preferably pressure 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.

**SECTION 13 DISPOSAL CONSIDERATIONS (Continued)**

If not recycling, break, crush, or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

**SECTION 14 TRANSPORT INFORMATION**

This product is not classified as a Dangerous Good  
This product is a Schedule 5 Poison (S5) and must be stored, transported and sold in accordance with the relevant Health Department regulations.

**SECTION 15 REGULATORY INFORMATION**

Under the Standard for Uniform Scheduling of Drugs and Poisons (SUSDP), this product is a schedule 5 poison.  
This product is registered under the Agricultural and Veterinary Chemicals Code Act 1994. Product Registration No.52332.  
This product is not classified as a Hazardous Substance under the criteria of NOHSC Australia.  
This product is classified as a Dangerous Good under the Australian Code for the Transport of Dangerous Goods by Road and Rail.

**SECTION 16 OTHER INFORMATION**

Issue Date: 7 November 2014. Valid for 5 years. (Update address details.)

Key to abbreviations and acronyms used in this SDS:

ADG Code	Australian Dangerous Goods Code (for the transport of dangerous goods by Road and Rail).
ASCC	Australian Safety & Compensation Council (formally known as the National Occupational Health & Safety Commission (NOHSC)).
Carcinogen	An agent which is responsible for the formation of a cancer.
Genotoxic	Capable of causing damage to genetic material, such as DNA.
NOHSC	National Occupational Health and Safety Commission.
PPE	Personal protective equipment.
Teratogen	An agent capable of causing abnormalities in a developing foetus.
TWA	The Time Weighted Average airborne concentration over an eight-hour working day, for a five day working week over an entire working life.

References

1. "Search Hazardous Substances". Safe Work Australia HSIS website. (2014).
2. "Approved Criteria for Classifying Hazardous Substances" 3rd Ed. NOHSC Australia. [NOHSC:1008 (2004)]. October 2004.
3. Globally Harmonized System of Classification and Labelling of Chemicals (GHS). United Nations, 2009.

This SDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

*End of SDS*