

MATERIAL SAFETY DATA SHEET

STATEMENT OF HAZARDOUS NATURE:

Not hazardous according to the criteria of NOHSC Australia

COMPANY DETAILS:

Syngenta Crop Protection Pty Limited
ABN 33 002 933 717
Level 1, 2-4 Lyon Park Road
NORTH RYDE, NSW 2113

Telephone No.: (02) 8876 8444
24 Hours Emergency No.: 1 800 033 111

IDENTIFICATION

PRODUCT NAME: FORTUNE™ Plant Growth Regulator

Formulation type:	Water soluble concentrate	UN number:	None allocated
Active ingredient:	Mepiquat Chloride	Dangerous goods class:	None allocated
Product code:	None available	Subsidiary risk:	None allocated
Chemical type:	Quaternary ammonium compound	Hazchem code:	None allocated
Poisons schedule:	5	Packing group:	None allocated

USE: For the management of Fruiting and Vegetative Growth in Cotton

PHYSICAL DESCRIPTION/PROPERTIES

Appearance:	Pink liquid	Flash point:	Not applicable
Odour:	Non specific	Flammability:	Non-flammable
Boiling/Melting point:	100°C	Combustibility:	Not Combustible
Vapour pressure:	23 mbar @ 20°C	Solubility in water:	Soluble
Density:	1.000 g/cm ³ @ 20°C	pH (1% aqueous):	6 - 8 @ 20°C

INGREDIENTS

	CAS No.	Content (% w/v)
Mepiquat Chloride (technical grade)		10
to give mepiquat-chloride	24307-26-4	5
Other ingredients determined not to be hazardous		to 100%

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

ACUTE TOXICITY

This product is not harmful according to the criteria of NOHSC Australia.

Swallowed:	NOT HARMFUL Tests on rats indicate this product is not harmful following single doses of undiluted product. (LD ₅₀ = > 5000 mg/kg)
Dermal absorption:	NOT HARMFUL Tests on rats indicate this product is not harmful following skin contact with the undiluted product. (LD ₅₀ = > 5000 mg/kg)
Inhaled:	NOT HARMFUL Tests on rats indicate this product is not harmful due to inhalation of the undiluted product. (LC ₅₀ (4 h) >10300 mg/m ³)

Irritation

Eye: **NON IRRITANT**
Skin: **NON IRRITANT**

Sensitisation

Skin: **NOT A SENSITISER**

Poisoning Symptoms

No cases of human poisoning are on record.

CHRONIC TOXICITY (Active Ingredient)

Mepiquat-chloride has been tested on mammals and in test-tube systems. No evidence of adverse mutagenic, oncogenic, teratogenic or reproductive effects was obtained.

FIRST AID

In case of poisoning by any exposure route contact a doctor or Poisons Information Centre. Phone 131 126.

Swallowed: If swallowed, do not induce vomiting. Give large quantities of water and seek medical attention.
Eye: If product gets in eyes, immediately flush eyes with running water for at least 15 minutes.
Skin: In case of contact with skin, immediately flush skin with running water for at least 15 minutes.
 Remove contaminated clothing and wash affected areas thoroughly with soap and water. Wash contaminated clothing before re-use.
Inhaled: Move affected person to fresh air and keep at rest until recovered. If any signs or symptoms occur or persist, get medical attention.

ADVICE TO DOCTOR

No specific antidote exists. Treat symptomatically.

PRECAUTIONS FOR USE**ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS****EXPOSURE STANDARDS**

No official exposure standards have been set for this product or its ingredients.

Exposure Potential - Swallowing is unlikely under normal conditions of usage. Significant skin uptake is not likely. Inhalation is a possible route of exposure. This product is diluted with water prior to use as a spray. This diluted form is less toxic by all routes of exposure.

Re-entry Period - Do not allow entry into treated areas until the spray has dried. When prior entry is necessary, wear cotton overalls buttoned to the neck and wrist and elbow-length PVC gloves.

ENGINEERING CONTROLS

No special requirements. Product is used outdoors.

PERSONAL PROTECTION

Will irritate the eyes. Avoid contact with eyes and skin. When preparing spray, wear elbow length PVC gloves. Wash hands after use. After each day's use, wash gloves and contaminated clothing.

Only use protective equipment bearing the mark of the Standards Association of Australia.

FLAMMABILITY

This product is NON-FLAMMABLE and non combustible.

SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT

Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Keep out of reach of children, unauthorised persons and animals.

SPILLS AND DISPOSAL

In case of spillage it is important to take all steps necessary to:

- Avoid eye and skin contact.
- Avoid contamination of waterways.

Procedure for spill:

- (1) Keep all bystanders away.
- (2) Wear goggles, full length clothing and PVC gloves.
- (3) Reposition any leaking containers so as to minimise further leakage.
- (4) Dam and absorb spill with an absorbent material (e.g. sand or soil).
- (5) Shovel the absorbed spill into drums.
- (6) Disposal of the absorbed material will depend upon the extent of the spill.
 - For quantities up to 50L of product bury in a secure landfill site.
 - For quantities greater than 50L seek advice from the manufacturer (use emergency contact number below) before attempting disposal. Contain in a secure location until disposal method is established.
- (7) Decontaminate the spill area with detergent and water and rinse with the smallest volume of water practicable.

Dispose of empty, used containers by:

- (a) Triple rinsing or preferably pressure rinsing containers with water. Add the rinsings to the spray tank. DO NOT dispose of undiluted chemicals on site.
- (b) If recycling, replace cap and return clean containers to recycler or designated collection point.
- (c) 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.

FIRE/EXPLOSION HAZARD

This product is non-flammable, and non-combustible. Extinguish warehouse or factory fires using fine water spray or foam. Do not allow fire-water to enter drains.

OTHER INFORMATION

The active ingredient **Mepiquat-chloride** is practically non-toxic to birds and fish (LD_{50} [bobwhite quail] = >2000 mg/kg bw) and (LC_{50} (96 h) [trout] = 4300 mg/L. Harmful to daphnia (LC_{50} (48 h) [Daphnia] = 68.5 mg/L). DO NOT contaminate streams, rivers or waterways with the chemical or used container. Not toxic to bees.

Note: This product is a registered agricultural chemical and must therefore be used in accordance with the container label directions. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the Federal health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.

CONTACT POINT: Regulatory Affairs Manager - Crop Protection - (02) 8876 8444
24 HOURS EMERGENCY CONTACT: 1 800 033 111

This Material Safety Data Sheet 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 MSDS 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.

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