


Safety Data Sheet

Modula®

1) Identification of Substance:	
Product name:	Modula
Active Ingredient(s):	305g/l mepiquat chloride + 155g/l chlorethephon SL
ACVM Approval:	P9226
EPA Approval:	HSR101134
Distributed by:	Adria Crop Protection P.O. Box 535, Kumeu 0841, Auckland Ph: 09-412-9817 Fax: 09-412-9807 www.adria.nz
Emergency Number: National Poisons and Hazchem Information Centre	0800 734 607 (24hr)3 0800 POISON (0800 764 766)
2) Hazards Identification:	
	
HSNO Classifications:	6.1D (O), 6.9B (O), 8.2C, 8.3A, 9.1C, 9.2B, 9.3B
Signal Word:	Danger
Hazard Statement Codes:	
H302	Harmful if swallowed.
H371/H373	May cause damage to organs through single, prolonged or repeated exposure.
H314/H318	Causes severe skin burns and serious eye damage.
H412	Harmful to aquatic life with long lasting effects.
H422	Toxic to the soil environment.
H432	Toxic to terrestrial vertebrates.
Prevention Statement Codes:	
P102	Keep out of reach of children.
P103	Read label before use.
P264	Wash body thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.



P260	Do not breathe dust, fumes or spray.
P280	Wear protective gloves, clothing, eye and face protection.
P273	Avoid release to the environment.
Response Statement Codes:	
P101	If medical advice is needed have product container or label at hand.
P301 + P312	IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.
P309 + P311	If exposed or if you feel unwell: Call a POISON CENTRE or doctor/physician
P301 + P330 + P331/P310	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTRE.
P303 + P361 + P353/P310	IF ON SKIN (or hair): Remove/take off all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTRE.
P363	Wash contaminated clothing before re-use.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338/P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Immediately call a POISON CENTRE.
P391	Collect Spillage.
Storage Statement Codes:	
P405	Store locked up.

3) Composition Details:

Chemical identity:	Mepiquat chloride + Chlorethephon	
Chemical identity of ingredients:		
Ingredient:	CAS No.:	Content (%w/v)
Mepiquat chloride	24307-26-4	30.5
Chlorethephon	16672-87-0	15.5

4) First Aid Measures:	
General Information:	If exposed or if you feel unwell: Call a POISON CENTRE or doctor/physician
Skin contact:	Remove/take off all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTRE.
Eye contact:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Immediately call a POISON CENTRE.
Ingestion:	Do NOT induce vomiting if swallowed. Immediately rinse mouth and then drink 200-300ml of water. For advice, contact the National Poisons Centre on 0800 POISON (0800 764766) or seek medical attention immediately.
Inhalation:	Remove to fresh air while keeping patient calm. Seek medical attention.
Further Information:	Treatment: No known specific antidote. Treat symptomatically (decontamination, vital functions).
5) Fire-Fighting Measures:	
Specific hazards:	Combustion products are toxic and/or irritant. Measures have to be taken to prevent the contaminated extinguishing agent from seeping into the ground or from spreading uncontrollably
Extinguishing media and methods:	Make use of fine water spray, foam, dry chemical, or carbon dioxide to extinguish fires. DO NOT use a direct jet of water.
Recommended protective clothing:	Wear SCBA and chemical-protective clothing.
Hazchem Code:	2X
6) Accidental Release Measures:	
Personal precautions:	Use protective clothing. Refer to section 8. Avoid contact with skin, eyes and clothing. Remove contaminated clothes and shoes immediately.
Environmental precautions:	Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.
Spill procedures:	Wear appropriate protective clothing, refer to section 8, and prevent material from entering waterways. Absorb spills with inert material and place in waste containers. Wash area with water and absorb with further inert material.
Disposal procedures:	Dispose of waste safely, according to local Council regulations.
7) Handling & Storage:	
Handling:	Use protective clothing. Refer to section 8. Avoid contact with skin and eyes. Ensure adequate ventilation. Avoid temperature extremes.
Storage:	Protect from temperatures above: 40 °C. Segregate from foods and animal feeds.

8) Exposure Control / Personal Protection:	
Engineering measures:	
Respiratory protection:	Wear respiratory protection if ventilation is inadequate. Use particle filter with medium efficiency for solid and liquid particles.
Eye protection:	Wear safety goggles with side-shields.
Hand protection:	Wear suitable chemical resistant safety gloves (e.g. nitrile rubber (.4mm)).
Other protective equipment:	Body protection (chemical protection suit, boots) must be chosen depending on activity and possible exposure.
General Safety & Hygiene measures:	Keep away from food, drink and animal feedstuffs. No eating, drinking or smoking during use and wash hands and face before breaks and after work.
9) Physical & Chemical Properties:	
Form:	Liquid. Soluble concentrate
Colour:	Clear - yellowish
Odour:	Characteristic
Melting point/boiling point:	NA
Specific gravity	1.092
Surface tension:	NA
pH:	1.9
Flash point:	Not flammable
Ignition Temperature:	NA
Explosive Limits:	NA
10) Stability & Reactivity:	
Conditions to avoid:	Avoid excessive temperatures.
Materials to avoid:	Strong acids, bases and oxidising agents.
Hazardous reactions:	None known if stored correctly.
11) Toxicological Information: Based on data from a similar formulation	
Acute oral toxicity:	>500 - < 2 000 mg/kg
Acute inhalation toxicity:	>5.3 mg/L 4h
Acute dermal toxicity:	>4 000 mg/kg (rat), 1250 mg/kg
Skin irritation:	Irritant
Eye irritation:	Irritant
Sensitisation:	Skin sensitizing effects were not observed in animal studies.
12) Ecological Information: Based on data from a similar formulation	
Acute fish toxicity:	LC50 (96h) > 100 mg/L, <i>Oncorhynchus mykiss</i>
Toxicity for daphnia:	EC50 (48 h) > 100 mg/L
Toxicity to algae:	EC50 (7 d) > 100 mg/L (growth rate), <i>Lemna gibba</i>

13) Disposal Considerations:	
Disposal: 	When emptying container, triple rinse and add remaining material to spray tank. Return the empty container to an AgRecovery collection point for disposal.
Empty container precautions:	Avoid contaminating any water supply with the chemical or empty container.
14) Transportation Information:	
	
Rail/road (RID/ADR):	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (CONTAINS ETHEPHON), UN: 3265, CLASS: 8 Packaging Group: III Hazchem code 2X
Sea (IMDG code):	
Air (ICAO/IATA):	
15) Regulatory Information:	
Certified Handlers:	Not required.
Tracking:	Not required but a record should be kept of use and disposal.
ACVM controls:	See www.foodsafety.govt.nz for registration conditions.
16) Other Information	
<p>For proper and safe use of this product, please refer to the approval conditions laid down on the product label.</p> <p>The data contained in this safety data sheet is based on our current knowledge and describes the product only with regard to safety requirements. The data does not describe the product's properties. Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any existing laws and legislation are observed</p>	