

## Material Safety Data Sheet

Issue No: 4	1 <sup>st</sup> Edition: November 2002	Revision date: August 2015
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### 1. Identification of the material/supplier

**Product Name:** **Megacide<sup>®</sup>** (synonym CitriCure<sup>®</sup>)  
**Other names:** Guazatine acetates  
**Recommended Use:** Agricultural fungicide  
**Supplier:** ICA International Chemicals (Pty) Ltd  
**Address:** 28 Planken Street  
 Plankenbrug Industrial  
 STELLENBOSCH · 7600 · SOUTH AFRICA  
**Telephone No.:** +27 (0) 21 886 9812  
**Fax No.:** +27 (0) 21 886 8209  
**Emergency Tel No.:** Griffon Poison Information Centre +27 82 446 8946  
 Poisons Helpline 0861 555 777

### 2. Hazard Identification

**Hazard Symbol:** **ACTIVE INGREDIENT:** T+, N  
**Risk Phrases:** R26: Very toxic by inhalation.  
 R37/38: Irritating to respiratory system and skin.  
 R41: Risk of serious damage to eyes.  
**Safety Phrases:** S2: Keep out of reach of children.  
 S21: Do not smoke when using.  
 S24 - 37: Avoid contact with skin. Wear suitable gloves.  
 S23 - 38: Do not breathe fumes. In case of insufficient ventilation, wear suitable respiratory equipment.  
 S25/26/39: Avoid contact with eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 Wear eye protection.  
 S60/61: This material and its container must be disposed of hazardous waste. Avoid release to the environment.

### 3. Composition/information on ingredients

INGREDIENT(S)	CAS NO.:	Hazardous Classification for ACTIVE INGREDIENT (EU standards)	Proportion
Guazatine acetate	115044-19-4  EC No: 236-855-3	<b>Cut-Off: Conc. &lt;25% &gt;=10%:</b> T+; R26; R37/38; R41 <b>Labelling:</b> T+, N; R: 21/22-26-37/38-41-50/53 S: (1/2); 26-28-36/37/39-38-45-46-60-61-63	~21 %
Other components		Strictly confidential	To 100%

### 4. FIRST AID MEASURES

**Show this MATERIAL SAFETY DATA SHEET to a doctor.**

**INHALATION:** If experiencing respiratory symptoms, remove person to fresh air and keep at rest in a position comfortable for breathing. Administer oxygen if breathing is difficult. Call for medical assistance.  
**EYES:** Rinse eyes IMMEDIATELY with clean water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing while holding eyelids apart. Seek medical attention immediately.  
**SKIN:** Remove contaminated clothing. Rinse affected areas (skin) immediately with plenty of water/shower. Wash contaminated clothing before re-use.  
**INGESTION:** If swallowed, DO NOT induce vomiting. Never give anything to an unconscious person. Rinse mouth with water. If vomiting does occur, keep on giving fluids. Seek medical attention immediately.

### 5. FIRE FIGHTING MEASURES:

#### SMALL FIRES:

- < Not flammable.
- < Use media such as dry chemical, CO<sup>2</sup>, foam or water spray.

#### LARGE FIRES:

- < Apply water in large quantities (flooding) as a mist or spray.
- < Keep unopened containers cool with flooding amounts of water.

**Hazards:** Gives off toxic fumes in a fire.

**Precautions for fire fighters and special protective equipment** Chemical protection suit including self-contained breathing apparatus. Prevent people from exposure to smoke and fumes.

## 6. ACCIDENTAL RELEASE MEASURES:

### SPILL OR LEAK:

- < Wear suitable protective clothing and safety glasses.
- < Avoid breathing vapors, mist or gas. Do not let product enter drains or waterways.
- < Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- < Stop leak or cover with plastic sheet to prevent from further spreading or leaking.
- < Contain spillage and then collect with non-combustible adsorbent material (e.g. sand or earth) and place into sealable containers for disposal.

## 7. HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING:

- Keep out of reach of children.
- Do not smoke while handling the product.
- Wear suitable protective clothing and chemical safety glasses.
- Wear breathing apparatus. Use in well ventilated area.

### ROUTES OF EXPOSURE:

**IRRITANT: Eyes, Skin and Respiratory system:** Wear eye protection (safety glasses) to avoid contact with eyes. Wear rubber gloves. Avoid inhalation of vapour or mist, wear a self-contained breathing apparatus.

### CONDITIONS FOR SAFE STORAGE

- Do not store in direct sunlight.
- Store in a cool, dry, well-ventilated room and secure area.
- Keep containers well closed.
- Always store fungicides in their original containers. **Never transfer** fungicides to soft drink bottles or **ANY** other containers. Children or others may mistake them for something to drink.
- Keep separated from food and feedstuffs.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

### OCCUPATIONAL EXPOSURE LIMITS:

TLV not established

### ENGINEERING CONTROLS:

Facilities should be equipped with an eyewash facility and a safety shower. Use in well ventilated area ONLY.

### PERSONAL PROTECTIVE EQUIPMENT:

**RESPIRATORY:** If inhalation of spray mist is likely to occur wear a self-contained breathing apparatus. In case of **insufficient ventilation**, wear suitable respiratory equipment.  
**EYES:** Safety glasses or face shield.  
**GLOVES:** Wear chemical resistant PVC gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE (colour, physical form):** Yellow to brown liquid

**ODOUR:** Chemical odour

**pH:** 5 - 7

**BOILING POINT:** 100°C

**SPECIFIC GRAVITY:** ~1.037 kg/L at 20°C (IP 365)

**VISCOSITY:** 10 – 12 cPs at 25°C (Brookefield)

**CORROSIVE:** Copper corrosion (IP 154) ~1

**FLASH POINT:** Not flammable

**SURFACE TENSION:** at 25°C, mN/m = 38 - 42 (ASTM D-1331)

**EMULSION STABILITY:** No significant separation and no sediments after 7 days at 0°C. No hydrolysis after 14 days at 54°C. Stable for at least 2 years at ambient temperature.

**FOAMING:** None (SABS method 826)

**SOLUBILITY in water:** Highly soluble

## 10. STABILITY AND REACTIVITY

### CHEMICAL STABILITY:

Stable under normal conditions.

### CONDITIONS TO AVOID:

No dangerous reactions known under normal conditions of use.

### INCOMPATIBLE MATERIALS:

No data available.

### HAZARDOUS DECOMPOSITION PRODUCTS:

CO<sub>2</sub>

## 11. TOXICOLOGICAL INFORMATION

ANIMAL ACUTE TOXICITY DATA : **No toxicological information is known on the PRODUCT.**

**(ACTIVE INGREDIENT)**

ACUTE ORAL:	LD <sub>50</sub> (rat)	300 – 500 mg/kg
DERMAL:	LD <sub>50</sub> (rat)	> 1000 mg/kg
INHALATION:	LC <sub>50</sub> rat	0.163 (mg/L <sup>-1</sup> )
DERMAL IRRITATION:	Rabbit (OECD 404)	Skin Irritant.
SKIN SENSITISATION:	Guinea Pig (OECD 406)	Non- sensitiser
EYE IRRITATION:	Rabbit (OECD 405)	Irritating to eyes.

## 12. ECOLOGICAL INFORMATION:

Avoid release to the environment in circumstances *DIFFERENT FROM NORMAL USE.*

ECOTOXICITY:	Fish:	<ul style="list-style-type: none"> <li>LC<sub>50</sub> (96hr) = 0.42 mg/L<sup>-1</sup> (<i>Lepomis macrochirus</i>)</li> <li>Fish - Chronic 21 day NOEC (mg l<sup>-1</sup>) = 0.044 (<i>Oncorhynchus mykiss</i>)</li> </ul>
	Honeybees	Honeybees - Acute 48 hour LD50 (µg bee <sup>-1</sup> ) = > 59.
	Birds	<ul style="list-style-type: none"> <li>Birds - Acute LD50 (mg kg<sup>-1</sup>) = 57.9 (<i>Columba livia</i>).</li> <li>Birds - Short term dietary (LC50/LD50) = 164.4 mg/kg bw/day (<i>Colinus virginianus</i>)</li> </ul>
	Earthworms	Earthworms - Acute 14 day LC50 (mg kg <sup>-1</sup> ) = 3420 ( <i>Eisenia foetida</i> )

## 13. DISPOSAL CONSIDERATIONS:

Do not use fungicide containers or packaging material for storing water or food. Triple or preferable pressure rinse empty containers with clean water before disposal. Add rinsing to spray/mixing tank. Do not dispose of undiluted chemical on-site. If recycling, replace cap and return clean containers to recycler or designated collection point. 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 500mm in a disposal pit specifically marked and set up for this purpose clear of any water source (river, dam, spring, or borehole). Empty containers and product should not be burnt.

## 14. TRANSPORT INFORMATION:

UN NUMBER:	3082
PROPER SHIPPING NAME:	Environmentally hazardous substance, liquid, N.O.S (21% Guazatine acetates).
ADR/RID Class:	9
PACKING GROUP:	III

## 15. REGULATORY INFORMATION:

CLASS AND SUBSIDIARY RISK(S): R26; R37/38; R41

Hazard Symbol:



Harmful



Dangerous for the environment

## 16. OTHER INFORMATION

The information contained on this sheet is based on knowledge of the product on date of publication. It is given in good faith.

The data does not signify any warranty with regard to the product properties. This Material Safety Data Sheet (MSDS) summarises to our best knowledge 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 to prevent accidents in the normal workplace including in conjunction with other products. Care for the environment is essential for our future.

Abbreviations and Acronyms:	ADG:	Australian Dangerous Goods Code, Rail & road 6 <sup>th</sup> edition
	CAS Number:	Chemical Abstract Service Registry Number
	NOHSC:	National Occupational Health and Safety Commission

END of MSDS