

## Safety Data Sheet

Issue No: 1.1

Issue date: October 2019

### 1. Identification of the material/supplier

**Product Name** **ImazaCure 500 EC**  
**Other names** Imazalil  
**Recommended Use** Agricultural fungicide (systemic)  
**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 no: +27 82 446 8946  
 Poisons Helpline 0861 555 777

### 2. Hazard Identification

**GHS classification of product** Acute Oral Toxicity Category 4  
 Acute Dermal Toxicity Category 5  
 Acute Inhalation Category 5  
 Mild Skin irritant Category 3  
 Irritating to eyes Category 2A  
 Skin sensitiser Category 1B  
 Hazardous to the aquatic environment, long-term Category 1  
 Combustible liquid Category 4

GHS Label elements



Signal Word

Warning

Hazard Statements

H227 Combustible liquid  
 H302 Harmful if swallowed  
 H313 May be harmful in contact with skin  
 H316 Causes mild skin irritation  
 H317 May cause an allergic skin reaction  
 H319 Causes serious eye irritation  
 H333 May be harmful if inhaled  
 H410 Very toxic to aquatic life with long lasting effects

Precautionary Statements

P101: If medical advice is needed: Have product container or label at hand  
 P102: Keep out of reach of children  
 P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P264: Wash thoroughly after handling.  
 P270: Do not eat, drink or smoke when using this product.  
 P272: Contaminated work clothing should not be allowed out of the workplace.  
 P273: Avoid release to the environment.  
 P280: Wear protective gloves, protective clothing, eye protection and face protection.  
 P391: Collect spillage.  
 P301+312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.  
 P302+312: IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell  
 P304+312: IF INHALED: Call a POISON CENTER or doctor if you feel unwell.  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.  
 P330: IF SWALLOWED: Rinse mouth.  
 P333+P313: If skin irritation or a rash occurs: Get medical attention.  
 P337+P313: If eye irritation persists get medical attention.  
 P362+P364: Take off contaminated clothing and wash it before reuse.  
 P370+378: In case of fire, (small fire) use dry chemical, carbon dioxide or foam / (big fire) water.

P403: Store in a well ventilated place.

P501: Dispose of contents and container in accordance with local regulation.

3. Composition/information on ingredients			
INGREDIENT(s)	CAS NO.:	Current entry in EU Annex VI CLP Regulation	Proportion
±-1-[β-Allyloxy-2,4-Dichlorophenylethyl)imidazole [Imazalil (ISO)]	35554-44-0	>25 % imazalil Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	± 50%
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 assistance if irritation continues.
- 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. Get medical advice.

#### 5. FIRE FIGHTING MEASURES:

##### SMALL FIRES:

- Some of the substances in this product have been classified as flammable.
- Avoid oxidising agents, strong bases and strong reducing agents.
- Use media such as dry chemical, carbon dioxide or foam.

##### 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:

- Avoid breathing vapours, mist or gas. Remove all sources of ignition. 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 spreading/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:**

- No Smoking. DO NOT expose to heat or flames. Keep away from sources of ignition.
- Keep out of reach of children.

**ROUTES OF EXPOSURE:**

- Wear eye protection (safety glasses) to avoid contact with eyes.
- 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.

**PERSONAL PROTECTIVE EQUIPMENT:** RESPIRATORY: If inhalation of spray mist is likely to occur wear a self-contained breathing apparatus. Use in well-ventilated area ONLY. 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 (Physical, colour, odor, aspect:)	Light Chestnut
ODOUR:	Strong chemical odour
pH:	~ pH8
DENSITY:	~1.07 g/ml
VISCOSITY:	Not available
CORROSIVE:	Not a corrosive material
FLASH POINT:	64 °C (Pensky Martins closed cup)
MISCIBILITY:	No solid material separation for standard water, acetone and ethanol. (CIPAC MT 23)
PERSISTANT FOAMING:	15 mℓ after 1 min (20 mℓ in 200 mℓ water)
THERMAL / AIR STABILITY:	Stable
COMPATIBILITY:	Compatible with citrus wax

## 10. STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Stable under normal conditions.
CONDITIONS TO AVOID:	Protect from direct sunlight, open flames and heat sources.
INCOMPATIBILITY:	Incompatible with strong oxidising agents, strong acids agents and bases.
HAZARDOUS DECOMPOSITION PRODUCTS:	The substance decomposes on burning producing toxic fumes of nitrogen oxides and chloride.

## 11. TOXICOLOGICAL INFORMATION

### ANIMAL ACUTE TOXICITY DATA

		PRODUCT
ORAL:	LD <sub>50</sub> (rat)	500mg/kg (Cat.4)
DERMAL:	LD <sub>50</sub> (rat)	>2000mg/kg (Cat. 5)
INHALATION:	LC <sub>50</sub> rat	>5.667mg/L air (Cat. 5) (Due to low toxicity, testing at higher concentrations not deemed necessary, product classified as Category 5 by GLP laboratory.)
DERMAL IRRITATION:	Rabbit (OECD 404)	Mild irritant to skin. (Cat. 3)
SKIN SENSITISATION:	Guinea Pig (OECD 406)	Positive as skin sensitiser (Cat. 1B)
EYE IRRITATION:	Rabbit (OECD 405)	Irritating to eyes (Cat. 2A)

## 12. ECOLOGICAL INFORMATION:

Avoid release to the environment in circumstances different from normal use.

ECOTOXICITY:	Fish:	• LC <sub>50</sub> (96hr) = 7.07mg/ℓ ( <i>Danio rerio</i> , Acute Toxicity Test)
	Alga:	• EC <sub>50</sub> (72hr) = 1.65mg/ℓ ( <i>Pseudokirchneriella subcapitata</i> )
	Daphnia	• EC <sub>50</sub> (48hr) = 2.88mg/ℓ ( <i>Daphnia sp.</i> )
	Bees	• Not toxic to bees. • Acute contact (product) LD <sub>50</sub> = 39mg/bee (48 hours)(Honey bee) • Acute oral toxicity LD <sub>50</sub> = 35.1mg/bee (48 hours)(Honey bee)
	Avian/Bird:	• LD <sub>50</sub> > 577.3mg/kg body weight (Japanese quail).
	Earthworm	• LC <sub>50</sub> (14 days) = 671.3 mg/kg soil ( <i>Eisenia foetida</i> )

NO mutagenic effects; NO long term effects on carbon or nitrogen transformation process by soil microorganisms.

ECOLOGICAL FATE and RISKS: Based on the risk assessment, none of the RQ values exceed the level of concern for either terrestrial or aquatic non-target organisms, and minimal risk to the environment is expected (EPA).

## 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:

HAZARD WARNING:	Class 9
UN NUMBER:	3082
PROPER SHIPPING NAME:	Environmentally hazardous substance, liquid, n.o.s (Imazalil).
PACKING GROUP:	III (minor danger)
HAZCHEM CODE:	None allocated

#### **15. REGULATORY INFORMATION:**

The use products containing imazalil in accordance with approved labelling will not pose unreasonable risks or adverse effects to humans or the environment.

#### **16. OTHER INFORMATION**

This information concerns only the product conforming to its specifications and limits to the uses herein stated. This sheet complements the technical sheet of use but does not replace it. 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 SDS 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.

Edition 1: 1: Updated Inhalation and flammabilitykob classification.

This SDS is valid for three years from date of issue

END of SDS