

# Material Safety Data Sheet

Issue No: 1.0	Issue Date: 27 June 2018
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## 1. IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

Product Name:	<b>Principle 250 EC</b>
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 ON PRODUCT

GHS Label elements



Signal Word

**Warning**

Hazard Statements

H302 Harmful if swallowed.  
H317: May cause an allergic skin reaction.  
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.  
P261 Avoid breathing vapours and spray.  
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 clothing.  
P301+P312 If SWALLOWED: Call a poison centre or doctor if you feel unwell.  
P302 + P352 IF ON SKIN: Gently wash with plenty of soap and water.  
P330 If SWALLOWED Rinse mouth.  
P333+P313 If skin irritation or rash occurs consult a medical professional.  
P362 +P364 Take off contaminated clothing and wash it before reuse.  
P391 Collect spillage.  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P501 Dispose of container and contents in accordance with local/national regulations.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT(s)	CAS NO	Classification according Regulation (EC) No. 1272 [CLP]	Concentration (g/l)
Propiconazole	60207-90-1	H302 H317: H410:	250
Non hazardous inerts			

### 4. FIRST AID MEASURES

Show this MATERIAL SAFETY DATA SHEET to a doctor

- INGESTION:**
- If swallowed, DO NOT induce vomiting. Have person sip a glass of water if able to swallow.
- INHALATION:**
- Prolonged exposure may irritate the respiratory tract. Treat symptomatically. Remove patient from source of exposure. And move to fresh air.
- EYES:**
- Mildly irritating to eyes. Treat symptomatically. Remove any contact lenses. Rinse eyes immediately with plenty of clean water for at least 15 minutes. Hold eyelids apart while flushing.
- SKIN:**
- Treat symptomatically. Remove contaminated clothing and take a shower.
  - Rinse affected areas (skin) immediately with plenty of water.
- MEDICAL ATTENTION:**
- Treat symptomatically.
- POTENTIAL HEALTH AFFECTS:**
- No significant adverse effects with normal use.

### 5. FIRE FIGHTING MEASURES

- FLASH POINT:**
- ~106 °C
- SUITABLE EXTINGUISHING MEDIA:**
- Extinguishing media - small fires:
  - Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.
  - Extinguishing media - large fires:
  - Alcohol resistant foam, water spray
  - DO NOT use a solid water stream as it may scatter and spread fire.
- HAZARDS PRODUCTS FROM COMBUSTION:**
- As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion
- PRECAUTIONS FOR FIRE FIGHTERS:**
- Fire fighters should wear full protective gear including self-contained breathing apparatus. If possible, safely remove intact containers from the fire. Keep fire exposed containers cool by spraying with water.

### 6. ACCIDENTAL RELEASE MEASURES

#### SPILL OR LEAK:

- Avoid contact with spilled material or contaminated surfaces.
- DO NOT eat, drink or smoke.
- Wear personal protective clothing and equipment (see section 8). Keep people and animals away.
- PREVENT spilled material from entering drains or sewer systems. Dike and bund area with sand or earth to prevent contamination of drains or sewers.

### 7. HANDLING AND STORAGE

- PRECAUTIONS FOR SAFE HANDLING:**
- Always store pesticides in their original containers, which include the label listing ingredients, directions for use, and first aid steps in case of accidental poisoning. **Never transfer** pesticides to soft drink bottles or other containers.
  - Keep out of reach of children
  - Wear suitable protective clothing (Dust mask, Eye shields, Gloves)
  - Wash hands, arms and face after use. Wash gloves and contaminated protective clothing daily.
- CONDITIONS FOR SAFE STORAGE:**
- DO NOT re-use the container for any other purpose.
  - Store in a well-ventilated, cool, dry, secure area. Protect from heat, sparks and flame. Do not expose containers to temperatures above 40 °C. This product is a combustible liquid.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

ADI	0.04
ARfD	0.3
AOEL	0.1

**PERSONAL PROTECTIVE EQUIPMENT:** Wear suitable protective clothing (Dust mask, Eye shields, Gloves).  
Facilities should be equipped with an eyewash facility and a safety shower.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE (colour; physical form):	Light brown liquid
ODOUR:	Slight Aldehyde odour
PH:	~6.8 (5.8 to 7.8)
DENSITY:	~1.09 g/mℓ
FASH POINT	~105 °C
PERSISTENT FOAMING:	~14 mℓ
ACCELERATE STORAGE STABILITY:	Stable
LOW TEMPERATURE STABILITY:	Visible stable

## 10. STABILITY AND REACTIVITY

**CHEMICAL STABILITY:** Stable under normal conditions of use.  
**CONDITIONS TO AVOID:** Heat and freezing.

## 11. TOXICOLOGICAL INFORMATION

### ANIMAL ACUTE TOXICITY DATA (similar product)

ORAL:	LD <sub>50</sub> (rat)	2 105 mg/kg
DERMAL:	LD <sub>50</sub> (rat)	4250 mg/kg bw
INHALATION:	LC <sub>50</sub> (rat)	>1 mg/ℓ (4h) (Unclassified)
DERMAL IRRITATION:	(OECD 404)	Moderate dermal irritant (rabbit)
EYE IRRITATION:	(OECD 405)	Moderate eye irritant (rabbit)
SENSITISATION:	Guinea pig	Not positive as a skin sensitizer

## 12. ECOLOGICAL INFORMATION (a.i.)

<b>ECOTOXICITY:</b>	Birds : LD <sub>50</sub> (oral)	Mallard ducks: > 2510 mg/kg Bobwhite quail: 2825 mg/kg
	Fish : LC <sub>50</sub> (96h)	Rainbow trout: 5.3 mg/ℓ Spot croaker 2.6 mg/ℓ
	Daphnia: LC <sub>50</sub> (48h)	0.48 mg/ℓ
	Bees: LD <sub>50</sub> (oral and contact)	>100 ug/ bee
	Earthworms: LC <sub>50</sub> (14d)	686 mg propiconazole a.i./kg dry soil
<b>PERSISTENCE, DEGRADABILITY and MOBILITY:</b>		Propiconazole (soil) has a very low potential for leaching(GUS 1.51) (non-mobile) DT <sub>50</sub> soil 214 d.

## 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 500 mm 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. (contains propiconazole)
CLASS AND SUBSIDIARY RISK(S):	Class 9
GHS PACKING GROUP:	3
MARINE POLLUTANT	YES
HAZCHEM CODE:	2X

#### 15. REGULATORY INFORMATION

South African Registration number L10533, Act No. 36 of 1947

This MSDS conforms to SANS 11014:2010

Valid for three years from date of issue.

#### 16. OTHER INFORMATION

This Material Safety Data Sheet (MSDS) 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 to prevent accidents in the normal workplace including in conjunction with other products.

The information was obtained from sources which we believe are reliable. However, the information is provided in good faith. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and for this reasons we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used for this product only.

END of MSDS