

Safety Data Sheet

Issue No: 1.0	1 st Edition: February 2020
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1. IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

Product Name:	Avert 200 EW
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 classification of product	Acute Toxicity Category 5 Mild skin irritation Category 3 Mild eye irritation Category 2B Toxic to Reproduction Category 2 (lowered birth weight, prolonged parturition) Hazardous to the aquatic environment (acute) – category 2 Hazardous to the aquatic environment (chronic) – category 1
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GHS Label elements	  
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Signal Word **Warning**

Hazard Statements
 H302: Harmful if swallowed
 H332: Harmful if inhaled
 H316: Causes mild skin irritation
 H410: May be harmful if swallowed
 H320 Causes eye irritation
 H361 - Suspected of damaging fertility or the unborn child
 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
 P103 Read label before use
 P201 Obtain special instructions before use
 P202 Do not handle until all safety precautions have been read and understood.
 P261 Avoid breathing mist and spray
 P264 Wash thoroughly after handling
 P271 Use only outdoors or in a well ventilated area
 P273 Avoid release to the environment
 P280 Wear protective gloves/face protection/protective clothing
 P284 In case of inadequate ventilation wear respiratory protection
 P312 Call a poison centre/doctor if you feel unwell
 P302 + P352 If on skin, wash with plenty of water
 P304 +340 If inhaled remove person to fresh air and keep comfortable for breathing
 P305 + P351 + P338 If in eyes rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.
 P308 +P313 If exposed or concerned: Get medical advice/attention
 P313 + P332 If skin irritation occurs: Get medical attention/advice

P362 + P364 Take of 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:	Concentration (g/l)
Penconazole	66246-88-6	200
Solvent		800

4. FIRST AID MEASURES

Show this SAFETY DATA SHEET to a doctor.

INGESTION:

- DO NOT induces vomiting.
- Rinse mouth with water. Have person sip a glass of water if able to swallow.
- PREVENT vomit from entering lungs.
- Get medical advice immediately.

INHALATION:

- Treat symptomatically. Remove patient from source of exposure and move to fresh air.
- Get medical advice.

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.
- Seek medical help if irritation continues.

SKIN:

- Treat symptomatically. Remove contaminated clothing and take a shower.
- Rinse affected areas (skin) immediately with plenty of water.
- If skin irritation occurs: Get medical attention/advice

NOTE TO PHYSICIAN:

- Treat symptomatically.

POTENTIAL HEALTH AFFECTS:

- No significant adverse effects expected.

5. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:

- Dry chemical

HAZARDS FROM COMBUSTION PRODUCTS:

- In a fire, formation of dense black smoke containing hazardous products of combustion expected due to presence of organic compounds.

PRECAUTIONS FOR FIRE FIGHTERS:

- Fire fighters should wear full protective gear including self-containing breathing apparatus.

HAZCHEM CODE:

- 2X

Further information:

- If possible, safely remove intact containers from the fire.
- Keep containers cool by spraying with water if exposed to fire
- Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.
- Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.
- In case of fire and/or explosion do not breathe fumes.

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/earth to prevent contamination of drains or sewers.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:	Wear suitable protective clothing (Dust mask; Eye shields, Gloves) No special measures necessary if stored and handled correctly. Keep away from heat, protect from sunlight and from freezing. Ensure thorough ventilation of stores and work areas Wash hands, arms and face after use. Wash gloves and contaminated protective clothing daily.
CONDITIONS FOR SAFE STORAGE:	Store out of reach of children, tightly closed in original containers, which include the complete label, in a cool, dry and well ventilated area out of direct sunlight. Segregate from foods and animal feeds.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

AOEL:	Acceptable Operator Exposure Level EU - 0.03 mg kg ⁻¹ bw day ⁻¹
ENGINEERING CONTROLS:	Facilities should be equipped with an eyewash facility and a safety shower.
PERSONAL PROTECTIVE EQUIPMENT:	Wear suitable protective clothing which include dust mask; eye shields and gloves (Chemical-resistant gloves made of any waterproof material such as nitrile, butyl, neoprene and/or barrier laminate). Suitable respiratory protection for higher concentrations or long-term effect: Particle filter with medium efficiency for solid and liquid particles

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE (colour; physical form)	White Homogenous Liquid
ODOUR:	Strong chemical
pH (1 % in water)	5-7
DENSITY:	~ 1.03 g/mℓ
FLASH POINT	>93°C
FOAMING 50 mℓ/100 ℓ water	After 12 minutes, 4 mℓ
WET SIEVE TEST	< 0.1 %

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Stable under normal conditions of use
CONDITIONS TO AVOID:	Excessive heat, freezing

11. TOXICOLOGICAL INFORMATION

ANIMAL ACUTE TOXICITY DATA

ORAL:	LD ₅₀ (rat)	>2 000 mg/kg. (Unclassified)
DERMAL:	LD ₅₀ (rats)	> 3 000 mg/kg bw.
INHALATION:	LC ₅₀ (4h) rat	>4 mg/ℓ mg/ℓ (Acute toxicity category 3)
SKIN:	Causes mild skin irritation	Skin irritation (category 3)
EYES	Causes mild irritation	Eye irritation (category 2B)

Not a skin sensitizer. Not mutagenic, unlikely to be genotoxic, unlikely to pose a carcinogenic risk to humans.

Lowest reproductive toxicity NOAEL 20 mg/kg bw per day (rat); Lowest developmental toxicity maternal/foetal mg/kg bw per day (rabbit)

12. ECOLOGICAL INFORMATION (a.i.)

ECOTOXICITY:	Birds: LD ₅₀ (oral)	<i>Anas platyrhynchos</i> - Acute (mg kg ⁻¹) > 1590 (Moderate)
	Fish: LC ₅₀ (96h)	<i>Oncorhynchus mykiss</i> (mg ℓ ⁻¹) 1.13 moderate
	Daphnia: EC ₅₀ (48h)	(mg ℓ ⁻¹) 6.75 moderate
	Bees	Acute contact 48 hour LD ₅₀ (µg bee ⁻¹) > 30 moderate Acute oral 48 hour LD ₅₀ (µg bee ⁻¹) > 112 moderate
	Earthworms: LC ₅₀ (14d)	Acute 14 day LC ₅₀ (mg kg ⁻¹) = >331.5 moderate

PERSISTENCE, DEGRADABILITY and MOBILITY:

Soil DT₅₀ field = 90
DT₉₀ = 157
Aqueous photolysis DT₅₀ (days) at pH 7 = Stable
Water-sediment DT₅₀ (days) = 853 Stable
Water phase only DT₅₀ = 2 Moderately fast
Mobility in soil: Non-mobile

13. DISPOSAL CONSIDERATIONS

On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities.

TRIPLE RINSE THE EMPTY CONTAINER AS FOLLOWS Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter, rinse the empty container three times in succession with one quarter of the container volume fresh water and decant the rinsate into the spray or mixing tank Puncture the triple rinsed container and dispose of via an approved collector or recycler (www croplife co za) Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages.

DIP Disposal: According to local legislative requirements

14. TRANSPORT INFORMATION

UN NUMBER: 3082
PROPER SHIPPING NAME: Environmentally hazardous substance, liquid, n.o.s. (contains penconazole), liquid
CLASS AND SUBSIDIARY RISK(S): Class 9
PACKING GROUP: III (minor danger)
HAZCHEM CODE: 2Z
Tel No: +27 (0) 21 886 9812

15. REGULATORY INFORMATION

South African Registration number L10773, Act No. 36 of 1947

16. OTHER INFORMATION

This Safety Data Sheet (SDS) 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 SDS 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 SDS was prepared and is to be used for this product only.

END of SDS